

DEPARTMENT OF NATURAL RESOURCES
AND ENVIRONMENTAL CONTROL

DIVISION OF WASTE AND HAZARDOUS SUBSTANCES

Remediation Section



**Hazardous Substance Cleanup Act
Guidance for Notification Requirements**

And

HSCA Reporting Level Table

Updated October 2024

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1.0 Introduction

- 1.1 The purpose of this document is to provide guidance for Section 3.1 of the Regulations Governing Hazardous Substance Cleanup and to help owners or operators understand how and when to notify the State of contamination.
- 1.2 This regulation and guidance is designed to provide notification to the State of Delaware of hazardous or potentially hazardous conditions that exist on property that is planned for development.
- 1.3 The notification is intended to facilitate possible remedial actions that will limit exposure to the public, provide cost-effective oversight, and limit potential liability for property owners.
- 1.4 Notification, in and of itself, does not mean that remediation will be initiated; however, it does mean that the Department of Natural Resources and Environmental Control, Remediation Section (DNREC-RS) will review the available information and decide if further action is warranted.

2.0 Releases and Potential Releases which Require Notification

- 2.1 Any exceedance of the reporting level table will be subject to the notification requirement if the owner or operator is planning on undertaking land disturbing activities at a facility.
 - 2.1.1 Land disturbing activities include, but are not limited to, digging, drilling, excavating, grading, clearing, earth moving, filling, or performing any subsurface work. Land disturbing activities do not include environmental investigation, planning, designing, or engineering work related to the facility.
 - 2.1.2 Example – A facility owner has a Phase II Environmental Site Assessment (ESA) performed and analytical data is obtained. One of the data points exceeds the reporting level, and it is in an area where they are planning to develop the property or dig a new utility trench. The owner must notify DNREC-RS at least 30 days in advance of the land disturbing activity, so DNREC-RS has enough time to review the report and determine what further action is appropriate.
- 2.2 Any evidence of a release during land disturbing activities will require notification within 24 hours to the Department's 24 Hour Release Hotline (800-662-8802). Land disturbing activities may continue on another part of the property as long as it is not immediately adjacent to the area where there is evidence of a release. This will prevent situations where all work must stop because the workers can move to another area on the facility and continue to work; however, if they find evidence of a release at the new area, they must continue moving until they can complete their task without finding evidence of a release.
 - 2.2.1 Evidence of a release includes, but is not limited to, appearance of a sheen, soil staining, or odors characteristic of hazardous substances; buried materials that may contain hazardous substances; or, presence of free product.
 - 2.2.2 Example – A facility owner starts developing a facility without performing a Phase I or Phase II ESA and discovers evidence of a release. The owner must call

the 24 Hour Release Hotline within 24 hours of the discovery. The DNREC Emergency Prevention and Response Section (DNREC-EPRS) may handle the response or they may refer it to DNREC-RS. Once DNREC-RS is notified of the situation, DNREC-RS will determine what further action may be appropriate.

- 2.2.3 Example – A facility owner has a Phase II ESA performed and analytical data is obtained. None of the data points exceed the reporting levels, so the facility owner does not need to notify DNREC-RS. However, when they begin digging for the new development or utility trench, they notice free product. The owner must call the 24 Hour Release Hotline within 24 hours of the discovery. The DNREC-EPRS may handle the response or they may refer it to DNREC-RS. Once DNREC-RS is notified of the situation, DNREC-RS will determine what further action may be appropriate.

3.0 Who is Required to Notify

- 3.1 The owner or operator is required to notify DNREC-RS if (1) he is planning on undertaking land disturbing activities and he knows that the land has concentrations of hazardous substances at or above the reporting levels; or (2) he became aware of a release while land disturbing activities were taking place at the facility.
- 3.1.1 An owner or operator is anyone who owns or operates a facility or who previously owned or operated a facility. For example, a facility manager is an operator because he is involved in operating the facility and is more likely to be aware of possible contamination.
- 3.2 A Brownfield Developer, prospective purchaser, or a person acting on behalf of the Brownfield Developer, the prospective purchaser, or the owner or operator can report a release to DNREC-RS if they are aware of (1) contamination that is at or above the reporting levels; or (2) evidence of a release that becomes apparent during land disturbing activities.
- 3.3 Any person who is aware of (1) contamination that is at or above the reporting levels; or (2) evidence of a release that becomes apparent during land disturbing activities is encouraged to notify DNREC-RS, but is not required to do so.

4.0 How Owners or Operators Notify DNREC

- 4.1 Notification prior to land disturbing activities
- 4.1.1 The owner or operator should submit a letter, via email or hard copy, that includes the current address and tax parcel of the property, current and future use, a copy of a Phase I and/or Phase II ESA report, including laboratory data in an editable format (Excel or EDD), and any anecdotal evidence to DNREC-RS at least 30 days prior to undertaking land disturbing activities. This will provide DNREC-RS with enough time to review the information, meet with the owner or operator, and determine what future actions are appropriate.

4.2 Notification during land disturbing activities

- 4.2.1 The owner or operator, or any person acting on his behalf, must notify the 24 Hour Release Hotline (800-662-8802) within 24 hours of noticing the evidence of release. The DNREC-EPRS will determine the next appropriate action.

5.0 How DNREC-RS notifies an owner or operator of a release

- 5.1 If DNREC-RS learns of a release at a facility, DNREC-RS will contact the owner or operator via phone call and follow up with a letter, via email or hard copy, to obtain any necessary information, including whether they are planning to undertake land disturbing activities.

6.0 Reporting Levels

- 6.1 Reporting levels are the concentrations of hazardous substances in the environment that are at or above the levels established by the Department, except for groundwater for which the reporting level shall be equivalent to the levels contained in the Delaware and federal drinking water standards. Reporting levels are indicated in the reporting level table in Appendix A of this guidance and on the RS webpage.
- 6.2 Reporting levels are only used for notification purposes and should not be used for cleanup purposes. They are not the same as cleanup levels and they should not be used as default cleanup levels. They do not take the place of a human health or ecological risk assessment. There may be a risk to human health or the environment at concentrations in soil or groundwater less than the concentrations listed in the table of reporting levels. Reporting levels do not adequately account for cumulative risk to human health or the environment.
- 6.3 Reporting levels for Soil
- 6.3.1 Hazardous Substance Cleanup Act (HSCA) reporting levels for soil are primarily based on the United States Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for residential soil, with several exceptions. Regardless of the current or future land use (i.e., residential, commercial, or industrial) at a facility, soil sample results at all facilities should be compared to the HSCA soil reporting level for the particular chemical(s) analyzed.
- 6.3.2 DNREC-RS recommends analysis of EPA's Target Analyte List (TAL) and Target Compound List (TCL) of chemicals, and any other chemicals that may be present because of the operational history of the facility.
- 6.4 Reporting levels for Groundwater
- 6.4.1 HSCA reporting levels for groundwater are primarily based on the Delaware or federal Maximum Contaminant Level (MCL) for drinking water. Some contaminants have a Delaware MCL, a federal MCL, or both. In the instances where there is both a Delaware and federal MCL, the more conservative level is listed in the HSCA reporting level table. Groundwater sample results should be compared to the groundwater reporting level for the particular chemical(s) analyzed.

6.4.2 DNREC-RS recommends analysis of EPA’s TAL and TCL of chemicals, and any other chemicals that may be present because of the operational history of the facility.

6.5 Comparing sample results to reporting levels

6.5.1 After soil and/or groundwater samples are collected from a facility, the individual sample results should be compared to the reporting levels listed in the most recent table provided by DNREC-RS in Appendix A of this guidance and on the RS webpage.

6.5.2 In general, samples that are field-screened only should be compared to the reporting levels and DNREC-RS should be notified if there is an exceedance of a reporting level and if land disturbing activities will occur. If a sample or samples were field-screened and exceed a reporting level, the owner or operator has the option to send those samples to a HSCA-approved laboratory for confirmatory analysis. If the results from the HSCA-approved laboratory do not exceed the reporting level, then DNREC-RS does not need to be notified of these sample results.

6.5.3 Below are two examples comparing sample results to HSCA reporting levels:

6.5.3.1 Example 1 – A Phase II ESA was conducted and soil and groundwater samples were collected from the property. Table 1A and 1B show some of the soil and groundwater sample results from the Phase II ESA, as compared to HSCA reporting levels for soil and groundwater, respectively. Based on this data, one or more soil samples exceed the reporting level for trichloroethylene, benz(a)anthracene, and benzo(a)pyrene. One groundwater sample is equal to the reporting level for trichloroethylene. Prior to undertaking any land disturbing activities, the owner or operator must notify DNREC-RS in writing that these particular hazardous substances are at or above the reporting level for soil and groundwater.

Table 1A: Soil Sample Results compared to HSCA Reporting Levels for Soil

Sample Name		SB01S	SB01D	SB02S
Sample Date		4/7/2013	4/7/2013	4/7/2013
Unit		mg/kg	mg/kg	mg/kg
Chemical Name	Soil Reporting Level (mg/kg)			
Tetrachloroethylene	86	ND	ND	ND
Trichloroethylene	4.4	2	6	ND
Anthracene	17,000	1.7	ND	0.46
Benz[a]anthracene	1.5	1.9	ND	1
Benzo[a]pyrene	0.15	1.9	ND	1.1

ND = not detected; Bold and Shaded = meets or exceeds reporting level; mg/kg = milligrams per kilogram

Table 1B: Groundwater Sample Results compared to HSCA Reporting Levels for Groundwater

Sample Name		MW01	MW02	MW03
Sample Date		4/17/2013	4/17/2013	4/17/2013
Unit		ug/l	ug/l	ug/l
Chemical Name	Groundwater Reporting Level (ug/l)			
Benzene	5	2	ND	1.1
Tetrachloroethylene	1	ND	ND	ND
Trichloroethylene	1	3.2	5	1

ND = not detected; Bold and Shaded = meets or exceeds reporting level; ug/l = micrograms per liter

6.5.3.2 Example 2 – A limited soil investigation was conducted and soil was analyzed for metals using a field XRF instrument. Table 2A shows some of the results of screening the soil samples with a field XRF instrument. These results were compared to HSCA reporting levels and all three samples exceeded the reporting level for arsenic. These exceedances would need to be reported to DNREC-RS prior to undertaking land disturbing activities. However, all of the same samples were also sent to a lab for confirmatory analysis (Table 2B), which revealed that none of the soil samples exceeded the reporting level for arsenic (or any other analyte). Results from the XRF instrument were biased high. Therefore, DNREC-RS does not need to be notified of these sample results.

Table 2A: Soil Sample Results, field-screened with XRF, compared to HSCA Reporting Levels for Soil

Sample Name Sample Date Unit		SO-01 4/7/2013 mg/kg	SO-02 4/7/2013 mg/kg	SO-03 4/7/2013 mg/kg
Chemical Name	Soil Reporting Level (mg/kg)			
Antimony	31	2.3	ND	ND
Arsenic	11	15	28	19
Barium	15,000	1119	1320	1282
Iron	74,767	47,800	53,000	52,000
Lead	400	73	37	66.1

ND = not detected; Bold and Shaded = meets or exceeds reporting level; mg/kg = milligrams per kilogram

Table 2B: Soil Sample Results, sent to confirmatory laboratory, compared to HSCA Reporting Levels for Soil

Sample Name Sample Date Unit		SO-01 4/7/2013 mg/kg	SO-02 4/7/2013 mg/kg	SO-03 4/7/2013 mg/kg
Chemical Name	Soil Reporting Level (mg/kg)			
Antimony	31	ND	ND	ND
Arsenic	11	6.7	10	9.6
Barium	15,000	273	298	307
Iron	74,767	47,800	53,000	52,000
Lead	400	26	10.5	24.6

ND = not detected; mg/kg = milligrams per kilogram

6.6 Updates to the Reporting Level Table

- 6.6.1 The reporting level table will be updated as significant changes occur, and the updated table will be available on the RS webpage (<https://dnrec.delaware.gov/waste-hazardous/remediation/laws-regs-guidance/>). Analytes may be added or deleted from the table. Therefore, please ensure that you are using the most current version of the reporting level table, available in Appendix A of this guidance and on the RS webpage. The analytes with concentrations that have been updated between the previous version and the current version of the reporting level table will be indicated. The date of the most recent revision will be listed in the heading of the table.

7.0 Procedure after the Department Receives Notification

The course of actions that the Department will take after notification will vary based on the way the notification was received and are described separately.

7.1 Notification Prior to undertaking land disturbing activities

7.1.1 If the owner or operator, Brownfield developer, or his representative, notified DNREC-RS in writing, of a release of a hazardous substance with concentrations at or above the reporting levels, at least 30 days before undertaking land disturbing activities in any area(s) potentially affected by the release at the property, then the following steps are taken:

- Step 1: DNREC-RS performs a preliminary review of the available information for the site, including Phase I and Phase II ESA, and determines that (1) no action under HSCA is needed; (2) further action under HSCA is needed; or (3) the facility needs to be referred to a different program.
- Step 2: If no action is needed, DNREC-RS sends a letter to the owner or operator stating that he can proceed with the land disturbing activities and no action under HSCA is needed. If the facility needs to be referred to a different program, DNREC-RS sends a letter notifying the owner or operator of the program under which the facility will be addressed.
- Step 3: If further action is needed, DNREC-RS assigns a tracking number (DE number) and a project officer for the site.
- Step 4: DNREC-RS enters into a letter agreement with the owner or operator.
- Step 5: DNREC-RS performs a full review of the available information for the site and determines whether the Phase II ESA is equivalent to a Facility Evaluation and if adequate data is present to perform an initial screening or if additional data is needed.
- Step 6: If there is adequate data, DNREC-RS and the owner or operator will agree that an initial screening will be performed by a HSCA certified consultant or DNREC-RS.
- Step 7: If additional data is needed, DNREC-RS will require the owner or operator to collect additional data and perform an initial screening using a HSCA certified consultant under the letter agreement. The owner or operator may choose to bypass this step and proceed through the HSCA process to receive a Certificate of Completion of Remedy (COCR) for the facility under the Voluntary Cleanup Program (VCP) or Brownfields Development Program (BDP).
- Step 8: If the initial screening indicates that the release does not exceed acceptable risk, then DNREC-RS issues a Conditional No Further Action. If the initial screening exceeds the acceptable risk, then the owner or operator must enter into a settlement agreement with DNREC-RS and the facility will proceed through the HSCA process to receive a COCR under the VCP or BDP.

7.2 Notification during land disturbing activities

7.2.1 If evidence of a release, such as a stained soil, free product or buried materials, was discovered during land disturbing activities, the owner or operator must notify the 24 Hour Release Hotline (800-662-8802) within 24 hours of learning of the evidence of release, and the following steps are taken:

- Step 1: DNREC Emergency Prevention and Response Section (EPRS) visits the site and determines that (1) no action is needed; (2) action under DNREC-RS is needed and refers the facility to DNREC-RS; (3) immediate action is needed and requires the owner or operator to perform the action; (4) residual contamination is present after the immediate action and refers the facility to DNREC-RS; or (5) the site should be referred to a section other than DNREC-RS.
- Step 2: DNREC-RS receives notification from EPRS and performs a preliminary review of the available information for the site, including Phase I and Phase II ESA, and determines that (1) no action under HSCA is needed; (2) further action under HSCA is needed; or (3) the facility needs to be referred to a different program.
- Step 3: If no action is needed, DNREC-RS sends a letter to the owner or operator stating that he can proceed with the land disturbing activities and no action under HSCA is needed. If the facility needs to be referred to a different program, DNREC-RS sends a letter notifying the owner or operator of the program under which the facility will be addressed.
- Step 4: If further action is needed, DNREC-RS assigns a tracking number (DE number) and a project officer for the site. One of the following will occur:
- (1) DNREC-RS enters into a letter agreement with the owner or operator for DNREC-RS to provide oversight of a Facility Evaluation (FE) and an initial screening performed by a HSCA certified consultant.
 - (2) DNREC-RS determines that the action taken by EPRS meets the interim action definition under the Regulations Governing Hazardous Substance Cleanup and the site proceeds through the HSCA process to receive a COCR under the VCP or BDP.
- Step 5: DNREC-RS reviews the FE and the initial screening and approves the report. DNREC-RS determines that (1) the initial screening does not exceed the acceptable risk and issues a Conditional No Further Action; or (2) the initial screening exceeds the acceptable risk and the owner or operator must enter into a settlement agreement with DNREC-RS and the facility will proceed through the HSCA process to receive a COCR under the VCP or BDP.

7.3 Notification by DNREC to the owner or operator

7.3.1 If DNREC-RS becomes aware of a release that exceeds a reporting level or evidence of a release, such as stained soil, free product or buried materials, the following steps are taken:

Step 1: DNREC-RS contacts the owner or operator and collects additional information, including whether the owner is planning on undertaking land disturbing activities.

Step 2: DNREC-RS performs a preliminary review of the available information for the site, including Phase I and Phase II ESA, and determines that (1) no action under HSCA is needed; (2) further action under HSCA is needed; or (3) the facility needs to be referred to a different program.

Step 3: If no action is needed, DNREC-RS sends a letter to the owner or operator stating that he can proceed with the land disturbing activities and no action under HSCA is needed. If the facility needs to be referred to a different program, DNREC-RS sends a letter notifying the owner or operator of the program under which the facility will be addressed.

Step 4: If further action is needed, DNREC-RS assigns a tracking number (DE number) and a project officer for the site.

Step 5: DNREC-RS enters into a letter agreement with the owner or operator for DNREC-RS to provide oversight of a Facility Evaluation (FE) and an initial screening performed by a HSCA certified consultant.

Step 6: DNREC-RS reviews the FE and the initial screening and approves the report. DNREC-RS determines that (1) the initial screening does not exceed the acceptable risk and issues a Conditional No Further Action; or (2) the initial screening exceeds the acceptable risk and the owner or operator must enter into a settlement agreement with DNREC-RS and the facility will proceed through the HSCA process to receive a COCR under the VCP or BDP.

8.0 Penalty for Failure to Notify

8.1 If an owner or operator fails to notify DNREC-RS of hazardous substances at or above reporting levels prior to undertaking land disturbing activities or fails to notify DNREC-RS or EPRS of evidence of a release during land disturbing activities, then a Public Hearing will occur and the Department may issue a Secretary's Order to the owner or operator.

8.2 Under HSCA §9109(f), the Secretary has the authority to issue an order to anyone who fails to report a release as required by the regulations. If an owner or operator fails to comply with the Secretary's order, they may be subject to a civil penalty of up to \$10,000 per day for each day of non-compliance.

Appendix A

HSCA Reporting Level Table

The reporting level table is arranged in the following manner:

Analyte is indicated in column 1.
Chemical Abstracts Service (CAS) registry number corresponding to the analyte is indicated in column 2. If a CAS number is not available for an analyte, another identifier may be indicated in this column for administrative purposes only.
Whether the analyte is carcinogenic or non-carcinogenic is indicated in column 3.
If analyte is part of EPA's Target Analyte List (TAL) or Target Compound List (TCL), 'TAL' or 'TCL' is indicated in column 4.
Reporting level for soil is indicated in milligrams per kilogram (mg/kg) in column 5.
Key describing how soil reporting level was derived is included in column 6.
Reporting level for groundwater (ingestion) is indicated in micrograms per liter (ug/l) in column 7.
Key describing how groundwater (ingestion) reporting level was derived is included in column 8.

The keys, which describe how the reporting levels were derived, are defined as follows:

BTV	Background Threshold Value was calculated based on samples from Delaware background studies. For soil: The concentration is either a 95% Upper Tolerance Limit (UTL) with 95% coverage (for metals), which represents the value below which 95% of the population values are expected to fall with 95% confidence, or a 95% Upper Simultaneous Limit (USL) (for PAHs) with the exception of Arsenic. Arsenic's background concentration was established previously.
DE MCL	Delaware Maximum Contaminant Level
DRO	DNREC Tier 0 action level for TPH-DRO was adopted as the reporting level
GRO	DNREC Tier 0 action level for TPH-GRO was adopted as the reporting level
MAX	Maximum ceiling value was adopted as the reporting level
MCL	Federal Maximum Contaminant Level
NIOSH	Reporting level was based on the National Institute for Occupational Safety & Health (NIOSH) Exposure Limit
PYR	EPA RSL for Pyrene was adopted as the reporting level for Phenanthrene, although Phenanthrene is not included within the EPA RSL table
RSL	EPA Regional Screening Level (with TR = 1E-05 and THQ = 0.1)
TAL	EPA Target Analyte List for Metals and Cyanide
TCL	EPA Target Compound List for Volatile Compounds, Semivolatile Compounds, and Pesticides/Aroclors
mg/kg	milligrams per kilogram
ug/l	micrograms per liter
c	carcinogenic
n	non-carcinogenic

Note: EPA's Regional Screening Levels are found at <https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>. EPA's RSL calculator is found at https://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search.

HSCA Human Health Reporting Level Table - October 2024

Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Acephate	30560-19-1	n		19	RSL		
Acetaldehyde	75-07-0	n		82	RSL		
Acetochlor	34256-82-1	n		1300	RSL		
Acetone	67-64-1	n	TCL	70000	RSL		
Acetone Cyanohydrin	75-86-5	n		100000	MAX		
Acetonitrile	75-05-8	n		810	RSL		
Acetophenone	98-86-2	n	TCL	7800	RSL		
Acetylaminofluorene, 2-	53-96-3	c		1.4	RSL		
Acrolein	107-02-8	n		0.14	RSL		
Acrylamide	79-06-1	c		2.4	RSL		
Acrylic Acid	79-10-7	n		20	RSL		
Acrylonitrile	107-13-1	c		2.5	RSL		
Adiponitrile	111-69-3	n		100000	MAX		
Alachlor	15972-60-8	c		97	RSL		2 MCL
Aldicarb	116-06-3	n		63	RSL		3 MCL
Aldicarb Sulfone	1646-88-4	n		63	RSL		2 MCL
Aldicarb sulfoxide	1646-87-3						4 MCL
Aldrin	309-00-2	c	TCL	0.39	RSL		
Allyl Alcohol	107-18-6	n		3.5	RSL		
Allyl Chloride	107-05-1	n		1.7	RSL		
Aluminum	7429-90-5	n	TAL	77000	RSL		
Aluminum Phosphide	20859-73-8	n		31	RSL		
Ametryn	834-12-8	n		570	RSL		
Aminobiphenyl, 4-	92-67-1	c		0.26	RSL		
Aminophenol, m-	591-27-5	n		5100	RSL		
Aminophenol, o-	95-55-6	n		250	RSL		
Aminophenol, p-	123-30-8	n		1300	RSL		
Amitraz	33089-61-1	n		160	RSL		
Ammonium Picrate	131-74-8	n		130	RSL		
Ammonium Sulfamate	7773-06-0	n		16000	RSL		
Amyl Alcohol, tert-	75-85-4	n		82	RSL		
Aniline	62-53-3	n		440	RSL		
Anthraquinone, 9,10-	84-65-1	n		130	RSL		
Antimony (metallic)	7440-36-0	n	TAL	31	RSL		6 MCL
Antimony Pentoxide	1314-60-9	n		39	RSL		
Antimony Tetroxide	1332-81-6	n		31	RSL		
Antimony Trioxide	1309-64-4	n		50000	NIOSH		
Arsenic, Inorganic	7440-38-2	c	TAL	11	BTV		10 MCL
Arsine	7784-42-1	n		0.27	RSL		
Asulam	3337-71-1	n		23000	RSL		
Atrazine	1912-24-9	c	TCL	24	RSL		3 MCL
Auramine	492-80-8	c		6.2	RSL		
Avermectin B1	65195-55-3	n		25	RSL		
Azinphos-methyl	86-50-0	n		190	RSL		
Azobenzene	103-33-3	c		56	RSL		
Azodicarbonamide	123-77-3	n		8600	RSL		
Barium	7440-39-3	n	TAL	15000	RSL		2000 MCL
Benfluralin	1861-40-1	n		390	RSL		
Benomyl	17804-35-2	n		3200	RSL		
Bensulfuron-methyl	83055-99-6	n		13000	RSL		
Bentazon	25057-89-0	n		1900	RSL		
Benzaldehyde	100-52-7	c	TCL	1700	RSL		
Benzene	71-43-2	c	TCL	12	RSL		5 MCL
Benzene, Trimethyl	25551-13-7	n		51	RSL		
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	n		19	RSL		
Benzenethiol	108-98-5	n		78	RSL		
Benzidine	92-87-5	c		0.0053	RSL		

HSCA Human Health Reporting Level Table - October 2024

Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Benzoic Acid	65-85-0	n		100000	MAX		
Benzotrichloride	98-07-7	c		0.53	RSL		
Benzyl Alcohol	100-51-6	n		6300	RSL		
Benzyl Chloride	100-44-7	c		11	RSL		
Beryllium and compounds	7440-41-7	n	TAL	160	RSL	4	MCL
Bifenox	42576-02-3	n		570	RSL		
Biphenanthrin	82657-04-3	n		950	RSL		
Biphenyl, 1,1'-	92-52-4	n	TCL	47	RSL		
Bis(2-chloro-1-methylethyl) ether	108-60-1	n	TCL	3100	RSL		
Bis(2-chloroethoxy)methane	111-91-1	n	TCL	190	RSL		
Bis(2-chloroethyl)ether	111-44-4	c	TCL	2.3	RSL		
Bis(chloromethyl)ether	542-88-1	c		0.0008	RSL		
Bisphenol A	80-05-7	n		3200	RSL		
Boron And Borates Only	7440-42-8	n		16000	RSL		
Boron Trichloride	10294-34-5	n		100000	MAX		
Boron Trifluoride	7637-07-2	n		3100	RSL		
Bromate	15541-45-4	c		9.9	RSL	10	MCL
Bromo-2-chloroethane, 1-	107-04-0	n		0.35	RSL		
Bromo-3-fluorobenzene, 1-	1073-06-9	n		23	RSL		
Bromo-4-fluorobenzene, 1-	460-00-4	n		23	RSL		
Bromoacetic acid	79-08-3	n		110	RSL	60	MCL
Bromobenzene	108-86-1	n		290	RSL		
Bromochloromethane	74-97-5	n	TCL	150	RSL		
Bromodichloromethane	75-27-4	c	TCL	2.9	RSL	80	MCL
Bromoform	75-25-2	c	TCL	190	RSL	80	MCL
Bromomethane	74-83-9	n	TCL	6.8	RSL		
Bromophos	2104-96-3	n		390	RSL		
Bromopropane, 1-	106-94-5	c		16	RSL		
Bromoxynil	1689-84-5	c		53	RSL		
Bromoxynil Octanoate	1689-99-2	c		67	RSL		
Butadiene, 1,3-	106-99-0	c		0.76	RSL		
Butanol, N-	71-36-3	n		7800	RSL		
Butyl Alcohol, t-	75-65-0	c		14000	RSL		
Butyl alcohol, sec-	78-92-2	n		100000	MAX		
Butylate	2008-41-5	n		3900	RSL		
Butylated hydroxyanisole	25013-16-5	c		27000	RSL		
Butylated hydroxytoluene	128-37-0	c		1500	RSL		
Butylbenzene, n-	104-51-8	n		3900	RSL		
Butylbenzene, sec-	135-98-8	n		7800	RSL		
Butylbenzene, tert-	98-06-6	n		7800	RSL		
Cacodylic Acid	75-60-5	n		1300	RSL		
Cadmium	7440-43-9	n	TAL	7.1	RSL	5	MCL
Caprolactam	105-60-2	n	TCL	31000	RSL		
Captan	2425-06-1	c		36	RSL		
Captan	133-06-2	c		2400	RSL		
Carbaryl	63-25-2	n		6300	RSL		
Carbofuran	1563-66-2	n		320	RSL	40	MCL
Carbon Disulfide	75-15-0	n	TCL	770	RSL		
Carbon Tetrachloride	56-23-5	c	TCL	6.5	RSL	5	MCL
Carbonyl Sulfide	463-58-1	n		67	RSL		
Carbosulfan	55285-14-8	n		630	RSL		
Carboxin	5234-68-4	n		6300	RSL		
Ceric oxide	1306-38-3	n		100000	MAX		
Chloral Hydrate	302-17-0	n		7800	RSL		
Chloramben	133-90-4	n		950	RSL		
Chloranil	118-75-2	c		13	RSL		
Chlordane (alpha)	5103-71-9	n	TCL	36	RSL		

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Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Chlordane (gamma)	5103-74-2	n	TCL	36	RSL		
Chlordane (technical mixture)	12789-03-6	c		17	RSL	2	MCL
Chlordecone (Kepone)	143-50-0	c		0.54	RSL		
Chlorfenvinphos	470-90-6	n		44	RSL		
Chlorimuron, Ethyl-	90982-32-4	n		5700	RSL		
Chlorine	7782-50-5	n		0.18	RSL		
Chlorine Dioxide	10049-04-4	n		2300	RSL		
Chlorite (Sodium Salt)	7758-19-2	n		2300	RSL	1000	MCL
Chloro-1,1-difluoroethane, 1-	75-68-3	n		54000	RSL		
Chloro-1,3-butadiene, 2- (Chloroprene)	126-99-8	c		0.1	RSL		
Chloro-2-methylaniline HCl, 4-	3165-93-3	c		12	RSL		
Chloro-2-methylaniline, 4-	95-69-2	c		54	RSL		
Chloroacetaldehyde, 2-	107-20-0	c		26	RSL		
Chloroacetic Acid	79-11-8	n		220	RSL	60	MCL
Chloroacetophenone, 2-	532-27-4	n		43000	RSL		
Chloroaniline, p-	106-47-8	c	TCL	27	RSL		
Chlorobenzene	108-90-7	n	TCL	280	RSL	100	MCL
Chlorobenzene sulfonic acid, p-	98-66-8	n		6300	RSL		
Chlorobenzilate	510-15-6	c		49	RSL		
Chlorobenzoic Acid, p-	74-11-3	n		1900	RSL		
Chlorobenzotrifluoride, 4-	98-56-6	c		22	RSL		
Chlorobutane, 1-	109-69-3	n		3100	RSL		
Chlorodifluoromethane	75-45-6	n		49000	RSL		
Chloroethanol, 2-	107-07-3	n		1600	RSL		
Chloroform	67-66-3	c	TCL	3.2	RSL	80	MCL
Chloromethane	74-87-3	n	TCL	110	RSL		
Chloromethyl Methyl Ether	107-30-2	c		0.2	RSL		
Chloronitrobenzene, o-	88-73-3	c		18	RSL		
Chloronitrobenzene, p-	100-00-5	n		44	RSL		
Chlorophenol, 2-	95-57-8	n	TCL	390	RSL		
Chloropicrin	76-06-2	n		2	RSL		
Chlorothalonil	1897-45-6	c		320	RSL		
Chlorotoluene, o-	95-49-8	n		1600	RSL		
Chlorotoluene, p-	106-43-4	n		1600	RSL		
Chlorozotocin	54749-90-5	c		0.023	RSL		
Chlorpropham	101-21-3	n		320	RSL		
Chlorpyrifos	2921-88-2	n		63	RSL		
Chlorpyrifos Methyl	5598-13-0	n		630	RSL		
Chlorsulfuron	64902-72-3	n		3200	RSL		
Chlorthal-dimethyl	1861-32-1	n		630	RSL		
Chlorthiophos	60238-56-4	n		51	RSL		
Chromium(III) (Soluble Compounds)	16065-83-1	n		85000	RSL		
Chromium(III), Insoluble Salts	16065-83-1	n		50000	NIOSH		
Chromium(VI)	18540-29-9	c		3	RSL		
Chromium, Total	7440-47-3		TAL	214	BTV	100	MCL
Clofentazine	74115-24-5	n		820	RSL		
Cobalt	7440-48-4	n	TAL	34	BTV		
Copper	7440-50-8	n	TAL	3100	RSL	1300	MCL
Cresol, m-	108-39-4	n		3200	RSL		
Cresol, o-	95-48-7	n	TCL	3200	RSL		
Cresol, p-	106-44-5	n	TCL	1300	RSL		
Cresol, p-chloro-m-	59-50-7	n	TCL	6300	RSL		
Cresols	1319-77-3	n		6300	RSL		
Crotonaldehyde, trans-	123-73-9	c		3.7	RSL		
Cumene	98-82-8	n	TCL	1900	RSL		
Cupferron	135-20-6	c		25	RSL		
Cyanazine	21725-46-2	c		6.5	RSL		

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Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Cyanides							
~Calcium Cyanide	592-01-8	n		78	RSL		
~Copper Cyanide	544-92-3	n		390	RSL		
~Cyanide (CN-)	57-12-5	n	TAL	23	RSL	200	MCL
~Cyanogen	460-19-5	n		78	RSL		
~Cyanogen Bromide	506-68-3	n		7000	RSL		
~Cyanogen Chloride	506-77-4	n		3900	RSL		
~Hydrogen Cyanide	74-90-8	n		23	RSL		
~Potassium Cyanide	151-50-8	n		160	RSL		
~Potassium Silver Cyanide	506-61-6	n		390	RSL		
~Silver Cyanide	506-64-9	n		7800	RSL		
~Sodium Cyanide	143-33-9	n		78	RSL	200	MCL
~Thiocyanates	E1790665	n		16	RSL		
~Thiocyanic Acid	463-56-9	n		16	RSL		
~Zinc Cyanide	557-21-1	n		3900	RSL		
Cyclohexane	110-82-7	n	TCL	6500	RSL		
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	c		270	RSL		
Cyclohexanone	108-94-1	n		28000	RSL		
Cyclohexene	110-83-8	n		310	RSL		
Cyclohexylamine	108-91-8	n		16000	RSL		
Cyfluthrin	68359-37-5	n		1600	RSL		
Cyromazine	66215-27-8	n		32000	RSL		
Dalapon	75-99-0	n		1900	RSL	200	MCL
Daminozide	1596-84-5	c		300	RSL		
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	n		440	RSL		
Demeton	8065-48-3	n		2.5	RSL		
Di(2-ethylhexyl)adipate	103-23-1	c		4500	RSL	400	MCL
Diallate	2303-16-4	c		89	RSL		
Diazinon	333-41-5	n		44	RSL		
Dibromo-3-chloropropane, 1,2-	96-12-8	c	TCL	0.053	RSL	0.2	MCL
Dibromoacetic acid	631-64-1	n		19	RSL	60	MCL
Dibromobenzene, 1,3-	108-36-1	n		31	RSL		
Dibromobenzene, 1,4-	106-37-6	n		780	RSL		
Dibromochloromethane	124-48-1	c	TCL	83	RSL	80	MCL
Dibromoethane, 1,2-	106-93-4	c	TCL	0.36	RSL	0.05	MCL
Dibromomethane (Methylene Bromide)	74-95-3	n		24	RSL		
Dibutyltin Compounds	E1790661	n		19	RSL		
Dicamba	1918-00-9	n		1900	RSL		
Dichloro-2-butene, 1,4-	764-41-0	c		0.021	RSL		
Dichloro-2-butene, cis-1,4-	1476-11-5	c		0.074	RSL		
Dichloro-2-butene, trans-1,4-	110-57-6	c		0.074	RSL		
Dichloroacetic Acid	79-43-6	c		110	RSL	60	MCL
Dichlorobenzene, 1,2-	95-50-1	n	TCL	1800	RSL	600	MCL
Dichlorobenzene, 1,4-	106-46-7	c	TCL	26	RSL	75	MCL
Dichlorobenzidine, 3,3'-	91-94-1	c	TCL	12	RSL		
Dichlorobenzophenone, 4,4'-	90-98-2	n		570	RSL		
Dichlorodifluoromethane	75-71-8	n	TCL	87	RSL		
Dichlorodiphenyldichloroethane, p,p'- (DDD)	72-54-8	c	TCL	23	RSL		
Dichlorodiphenyldichloroethylene, p,p'- (DDE)	72-55-9	c	TCL	20	RSL		
Dichlorodiphenyltrichloroethane, p,p'- (DDT)	50-29-3	c	TCL	19	RSL		
Dichloroethane, 1,1-	75-34-3	c	TCL	36	RSL		
Dichloroethane, 1,2-	107-06-2	c	TCL	4.6	RSL	5	MCL
Dichloroethylene, 1,1-	75-35-4	n	TCL	230	RSL	7	MCL
Dichloroethylene, cis-1,2-	156-59-2	n	TCL	63	RSL	70	MCL
Dichloroethylene, trans-1,2-	156-60-5	n	TCL	70	RSL	100	MCL
Dichlorophenol, 2,4-	120-83-2	n	TCL	190	RSL		
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	n		700	RSL	70	MCL

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Dichloropropane, 1,2-	78-87-5	n	TCL	16	RSL	5	MCL
Dichloropropane, 1,3-	142-28-9	n		1600	RSL		
Dichloropropanol, 2,3-	616-23-9	n		190	RSL		
Dichloropropene, 1,3-	542-75-6	c		18	RSL		
Dichlorvos	62-73-7	c		19	RSL		
Dicrotophos	141-66-2	n		1.9	RSL		
Dicyclopentadiene	77-73-6	n		1.3	RSL		
Dieldrin	60-57-1	c	TCL	0.34	RSL		
Diethanolamine	111-42-2	n		130	RSL		
Diethylene Glycol Monobutyl Ether	112-34-5	n		1900	RSL		
Diethylene Glycol Monoethyl Ether	111-90-0	n		3800	RSL		
Diethylformamide	617-84-5	n		78	RSL		
Diethylstilbestrol	56-53-1	c		0.016	RSL		
Difenzoquat	43222-48-6	n		5200	RSL		
Diflubenzuron	35367-38-5	n		1300	RSL		
Difluoroethane, 1,1-	75-37-6	n		48000	RSL		
Difluoropropane, 2,2-	420-45-1	n		24000	RSL		
Dihydrosafrole	94-58-6	c		99	RSL		
Diisopropyl Ether	108-20-3	n		2200	RSL		
Diisopropyl Methylphosphonate	1445-75-6	n		6300	RSL		
Dimethipin	55290-64-7	n		1400	RSL		
Dimethoate	60-51-5	n		140	RSL		
Dimethoxybenzidine, 3,3'-	119-90-4	c		3.4	RSL		
Dimethyl methylphosphonate	756-79-6	c		3200	RSL		
Dimethylamino azobenzene [p-]	60-11-7	c		1.2	RSL		
Dimethylaniline HCl, 2,4-	21436-96-4	c		9.4	RSL		
Dimethylaniline, 2,4-	95-68-1	c		27	RSL		
Dimethylaniline, N,N-	121-69-7	n		160	RSL		
Dimethylbenzidine, 3,3'-	119-93-7	c		0.49	RSL		
Dimethylformamide	68-12-2	n		2600	RSL		
Dimethylhydrazine, 1,1-	57-14-7	n		0.057	RSL		
Dimethylhydrazine, 1,2-	540-73-8	c		0.0088	RSL		
Dimethylphenol, 2,4-	105-67-9	n	TCL	1300	RSL		
Dimethylphenol, 2,6-	576-26-1	n		38	RSL		
Dimethylphenol, 3,4-	95-65-8	n		63	RSL		
Dimethylvinylchloride	513-37-1	c		11	RSL		
Dinitro-o-cresol, 4,6-	534-52-1	n	TCL	5.1	RSL		
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	n		130	RSL		
Dinitroaniline, 3,5-	618-87-1	n		25	RSL		
Dinitrobenzene, 1,2-	528-29-0	n		6.3	RSL		
Dinitrobenzene, 1,3-	99-65-0	n		6.3	RSL		
Dinitrobenzene, 1,4-	100-25-4	n		6.3	RSL		
Dinitrophenol, 2,4-	51-28-5	n	TCL	130	RSL		
Dinitrotoluene Mixture, 2,4/2,6-	E1615210	c		8	RSL		
Dinitrotoluene, 2,4-	121-14-2	c	TCL	17	RSL		
Dinitrotoluene, 2,6-	606-20-2	c	TCL	3.6	RSL		
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	n		7.7	RSL		
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	n		7.7	RSL		
Dinitrotoluene, Technical grade	25321-14-6	c		12	RSL		
Dinoseb	88-85-7	n		63	RSL	7	MCL
Dioxane, 1,4-	123-91-1	c		53	RSL		
Dioxins							
~Hexachlorodibenzo-p-dioxin, Mixture	34465-46-8	c		0.001	RSL		
~TCDD, 2,3,7,8-	1746-01-6	c		0.000048	RSL	0.00003	MCL
Diphenamid	957-51-7	n		1900	RSL		
Diphenyl Ether	101-84-8	n		34	RSL		
Diphenyl Sulfone	127-63-9	n		51	RSL		

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Diphenylamine	122-39-4	n		6300	RSL		
Diphenylhydrazine, 1,2-	122-66-7	c		6.8	RSL		
Diquat	2764-72-9	n		140	RSL	20	MCL
Direct Black 38	1937-37-7	c		0.73	RSL		
Direct Blue 6	2602-46-2	c		0.73	RSL		
Direct Brown 95	16071-86-6	c		0.81	RSL		
Disulfoton	298-04-4	n		2.5	RSL		
Dithiane, 1,4-	505-29-3	n		780	RSL		
Diuron	330-54-1	n		130	RSL		
Dodine	2439-10-3	n		1300	RSL		
EPTC	759-94-4	n		3900	RSL		
Endosulfan	115-29-7	n		470	RSL		
Endosulfan Sulfate	1031-07-8	n	TCL	380	RSL		
Endothall	145-73-3	n		1300	RSL	100	MCL
Endrin	72-20-8	n	TCL	19	RSL	2	MCL
Epichlorohydrin	106-89-8	n		19	RSL		
Epoxybutane, 1,2-	106-88-7	n		160	RSL		
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	n		2500	RSL		
Ethephon	16672-87-0	n		320	RSL		
Ethion	563-12-2	n		32	RSL		
Ethoxyethanol Acetate, 2-	111-15-9	n		2600	RSL		
Ethoxyethanol, 2-	110-80-5	n		2600	RSL		
Ethyl Acetate	141-78-6	n		620	RSL		
Ethyl Acrylate	140-88-5	n		47	RSL		
Ethyl Chloride	75-00-3	n	TCL	5400	RSL		
Ethyl Ether	60-29-7	n		16000	RSL		
Ethyl Methacrylate	97-63-2	n		1800	RSL		
Ethyl Tertiary Butyl Ether (ETBE)	637-92-3	c		1300	RSL		
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	n		0.63	RSL		
Ethylbenzene	100-41-4	c	TCL	58	RSL	700	MCL
Ethylene Cyanohydrin	109-78-4	n		4400	RSL		
Ethylene Diamine	107-15-3	n		7000	RSL		
Ethylene Glycol	107-21-1	n		51000	RSL		
Ethylene Glycol Monobutyl Ether	111-76-2	n		6300	RSL		
Ethylene Oxide	75-21-8	c		0.02	RSL		
Ethylene Thiourea	96-45-7	n		5.1	RSL		
Ethyleneimine	151-56-4	c		0.027	RSL		
Ethylphthalyl Ethyl Glycolate	84-72-0	n		100000	MAX		
Fenamiphos	22224-92-6	n		16	RSL		
Fenpropathrin	39515-41-8	n		1600	RSL		
Fenvalerate	51630-58-1	n		1600	RSL		
Fluometuron	2164-17-2	n		820	RSL		
Fluoride	16984-48-8	n		3100	RSL		
Fluorine (Soluble Fluoride)	7782-41-4	n		4700	RSL	2000	DE_MCL
Fluridone	59756-60-4	n		5100	RSL		
Flurprimidol	56425-91-3	n		2500	RSL		
Flusilazole	85509-19-9	n		130	RSL		
Flutolanil	66332-96-5	n		32000	RSL		
Fluvalinate	69409-94-5	n		630	RSL		
Folpet	133-07-3	n		5700	RSL		
Fomesafen	72178-02-0	n		630	RSL		
Fonofos	944-22-9	n		130	RSL		
Formaldehyde	50-00-0	c		110	RSL		
Formic Acid	64-18-6	n		29	RSL		
Fosetyl-AL	39148-24-8	n		100000	MAX		
Furans							
~Dibenzofuran	132-64-9	n	TCL	78	RSL		

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Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
~Furan	110-00-9	n		78	RSL		
~Tetrahydrofuran	109-99-9	n		18000	RSL		
Furazolidone	67-45-8	c		1.4	RSL		
Furfural	98-01-1	n		210	RSL		
Furium	531-82-8	c		3.6	RSL		
Furmecyclox	60568-05-0	c		180	RSL		
Glufosinate, Ammonium	77182-82-2	n		380	RSL		
Glutaraldehyde	111-30-8	n		6000	RSL		
Glycidaldehyde	765-34-4	n		23	RSL		
Glyphosate	1071-83-6	n		6300	RSL	700	MCL
Guanidine	113-00-8	n		780	RSL		
Guanidine Chloride	50-01-1	n		1300	RSL		
Guanidine Nitrate	506-93-4	n		1900	RSL		
Haloxypop, Methyl	69806-40-2	n		3.2	RSL		
Heptachlor	76-44-8	c	TCL	1.3	RSL	0.4	MCL
Heptachlor Epoxide	1024-57-3	c	TCL	0.7	RSL	0.2	MCL
Heptanal, n-	111-71-7	n		24	RSL		
Heptane, N-	142-82-5	n		22	RSL		
Hexabromobenzene	87-82-1	n		160	RSL		
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	n		13	RSL		
Hexachlorobenzene	118-74-1	n	TCL	0.78	RSL	1	MCL
Hexachlorobutadiene	87-68-3	c	TCL	12	RSL		
Hexachlorocyclohexane, Alpha-	319-84-6	c	TCL	0.86	RSL		
Hexachlorocyclohexane, Beta-	319-85-7	c	TCL	3	RSL		
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	c	TCL	5.7	RSL	0.2	MCL
Hexachlorocyclohexane, Technical	608-73-1	c		3	RSL		
Hexachlorocyclopentadiene	77-47-4	n	TCL	1.8	RSL	50	MCL
Hexachloroethane	67-72-1	c	TCL	18	RSL		
Hexachlorophene	70-30-4	n		19	RSL		
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	c		83	RSL		
Hexamethylene Diisocyanate, 1,6-	822-06-0	n		3.1	RSL		
Hexamethylene diisocyanate biuret	4035-89-6	n		100000	MAX		
Hexamethylene diisocyanate isocyanurate	3779-63-3	n		100000	MAX		
Hexamethylphosphoramide	680-31-9	n		25	RSL		
Hexane, Commercial	E5241997	c		120	RSL		
Hexane, N-	110-54-3	n		610	RSL		
Hexanedioic Acid	124-04-9	n		100000	MAX		
Hexanol, 1-,2-ethyl- (2-Ethyl-1-hexanol)	104-76-7	n		15	RSL		
Hexanone, 2-	591-78-6	n	TCL	200	RSL		
Hexazinone	51235-04-2	n		2100	RSL		
Hexythiazox	78587-05-0	n		1600	RSL		
Hydramethylnon	67485-29-4	n		1100	RSL		
Hydrazine	302-01-2	c		0.32	RSL		
Hydrazine Sulfate	10034-93-2	c		2.3	RSL		
Hydrogen Chloride	7647-01-0	n		100000	MAX		
Hydrogen Fluoride	7664-39-3	n		3100	RSL		
Hydrogen Sulfide	7783-06-4	n		100000	MAX		
Hydroquinone	123-31-9	c		90	RSL		
Imazalil	35554-44-0	c		89	RSL		
Imazaquin	81335-37-7	n		16000	RSL		
Imazethapyr	81335-77-5	n		100000	MAX		
Iodine	7553-56-2	n		780	RSL		
Iprodione	36734-19-7	n		2500	RSL		
Iron	7439-89-6	n	TAL	74767	BTV		
Isobutyl Alcohol	78-83-1	n		7800	RSL		
Isophorone	78-59-1	c	TCL	5700	RSL		
Isopropalin	33820-53-0	n		1200	RSL		

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Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Isopropanol	67-63-0	n		5600	RSL		
Isopropyl Methyl Phosphonic Acid	1832-54-8	n		6300	RSL		
Isoxaben	82558-50-7	n		3200	RSL		
Lactofen	77501-63-4	n		510	RSL		
Lactonitrile	78-97-7	n		13	RSL		
Lanthanum	7439-91-0	n		3.9	RSL		
Lanthanum Acetate Hydrate	100587-90-4	n		1.3	RSL		
Lanthanum Chloride Heptahydrate	10025-84-0	n		1.5	RSL		
Lanthanum Chloride, Anhydrous	10099-58-8	n		2.2	RSL		
Lanthanum Nitrate Hexahydrate	10277-43-7	n		1.3	RSL		
Lead Compounds							
~Lead Phosphate	7446-27-7	c		820	RSL		
~Lead acetate	301-04-2	c		26	RSL		
~Lead and Compounds	7439-92-1		TAL	200	RSL	15	MCL
~Lead and Compounds (with other sources of lead present, see Guidance)	7439-92-1		TAL	100	RSL		
~Lead subacetate	1335-32-6	c		140	RSL		
~Tetraethyl Lead	78-00-2	n		0.0078	RSL		
Lewisite	541-25-3	n		0.39	RSL		
Linuron	330-55-2	n		490	RSL		
Lithium	7439-93-2	n		160	RSL		
MCPA	94-74-6	n		32	RSL		
MCPB	94-81-5	n		2800	RSL		
MCPP	93-65-2	n		63	RSL		
Malathion	121-75-5	n		1300	RSL		
Maleic Anhydride	108-31-6	n		6300	RSL		
Maleic Hydrazide	123-33-1	n		32000	RSL		
Malononitrile	109-77-3	n		6.3	RSL		
Mancozeb	8018-01-7	n		1900	RSL		
Maneb	12427-38-2	n		320	RSL		
Manganese	7439-96-5	n	TAL	2100	BTV		
Mephosfolan	950-10-7	n		5.7	RSL		
Mepiquat Chloride	24307-26-4	n		1900	RSL		
Mercaptobenzothiazole, 2-	149-30-4	n		250	RSL		
Mercury Compounds							
~Mercuric Chloride	7487-94-7	n		23	RSL	2	MCL
~Mercury (elemental)	7439-97-6	n	TAL	11	RSL	2	MCL
~Methyl Mercury	22967-92-6	n		7.8	RSL		
~Phenylmercuric Acetate	62-38-4	n		5.1	RSL		
Merphos	150-50-5	n		2.3	RSL		
Metalaxyl	57837-19-1	n		3800	RSL		
Methacrylonitrile	126-98-7	n		7.5	RSL		
Methamidophos	10265-92-6	n		3.2	RSL		
Methanol	67-56-1	n		100000	MAX		
Methidathion	950-37-8	n		95	RSL		
Methomyl	16752-77-5	n		1600	RSL		
Methoxy-5-nitroaniline, 2-	99-59-2	c		110	RSL		
Methoxychlor	72-43-5	n	TCL	320	RSL	40	MCL
Methoxyethanol Acetate, 2-	110-49-6	n		110	RSL		
Methoxyethanol, 2-	109-86-4	n		260	RSL		
Methyl Acetate	79-20-9	n	TCL	78000	RSL		
Methyl Acrylate	96-33-3	n		150	RSL		
Methyl Ethyl Ketone (2-Butanone)	78-93-3	n	TCL	27000	RSL		
Methyl Hydrazine	60-34-4	n		1	RSL		
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	n	TCL	33000	RSL		
Methyl Isocyanate	624-83-9	n		4.6	RSL		
Methyl Methacrylate	80-62-6	n		4400	RSL		
Methyl Parathion	298-00-0	n		16	RSL		

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Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Methyl Phosphonic Acid	993-13-5	n		3800	RSL		
Methyl Styrene (Mixed Isomers)	25013-15-4	n		320	RSL		
Methyl methanesulfonate	66-27-3	c		55	RSL		
Methyl tert-Butyl Ether (MTBE)	1634-04-4	c	TCL	470	RSL	10	DE_MCL
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	n		19	RSL		
Methyl-2-Pentanol, 4-	108-11-2	n		54000	RSL		
Methyl-5-Nitroaniline, 2-	99-55-8	c		600	RSL		
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	c		0.65	RSL		
Methylaniline Hydrochloride, 2-	636-21-5	c		42	RSL		
Methylarsonic acid	124-58-3	n		630	RSL		
Methylbenzene,1,4-diamine monohydrochloride, 2-	74612-12-7	n		13	RSL		
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	n		19	RSL		
Methylcholanthrene, 3-	56-49-5	c		0.055	RSL		
Methylcyclohexane	108-87-2	n		98	RSL		
Methylene Chloride	75-09-2	n	TCL	350	RSL	5	MCL
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	c		12	RSL		
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	c		120	RSL		
Methylenebisbenzenamine, 4,4'-	101-77-9	c		3.4	RSL		
Methylenediphenyl Diisocyanate	101-68-8	n		100000	MAX		
Methylstyrene, Alpha-	98-83-9	n		5500	RSL		
Metolachlor	51218-45-2	n		9500	RSL		
Metribuzin	21087-64-9	n		1600	RSL		
Metsulfuron-methyl	74223-64-6	n		16000	RSL		
Mineral oils	8012-95-1	n		100000	MAX		
Mirex	2385-85-5	c		0.36	RSL		
Molinate	2212-67-1	n		130	RSL		
Molybdenum	7439-98-7	n		390	RSL		
Monochloramine	10599-90-3	n		7800	RSL		
Monomethylaniline	100-61-8	n		130	RSL		
Myclobutanil	88671-89-0	n		1600	RSL		
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	n		19	RSL		
Naled	300-76-5	n		160	RSL		
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	n		2300	RSL		
Naphthylamine, 2-	91-59-8	c		3	RSL		
Napropamide	15299-99-7	n		7600	RSL		
Nickel Acetate	373-02-4	n		670	RSL		
Nickel Carbonate	3333-67-3	n		670	RSL		
Nickel Carbonyl	13463-39-3	n		820	RSL		
Nickel Hydroxide	12054-48-7	n		820	RSL		
Nickel Oxide	1313-99-1	n		840	RSL		
Nickel Refinery Dust	E715532	n		820	RSL		
Nickel Soluble Salts	7440-02-0	n	TAL	1400	RSL	100	DE_MCL
Nickel Subsulfide	12035-72-2	c		4.1	RSL		
Nickelocene	1271-28-9	c		6	RSL		
Nitrate (measured as nitrogen)	14797-55-8	n		100000	MAX	10000	MCL
Nitrate + Nitrite (measured as nitrogen)	E701177	n				10000	MCL
Nitrite (measured as nitrogen)	14797-65-0	n		7800	RSL	1000	MCL
Nitroaniline, 2-	88-74-4	n	TCL	630	RSL		
Nitroaniline, 4-	100-01-6	n	TCL	250	RSL		
Nitrobenzene	98-95-3	c	TCL	51	RSL		
Nitrocellulose	9004-70-0	n		100000	MAX		
Nitrofurantoin	67-20-9	n		4400	RSL		
Nitrofurazone	59-87-0	c		4.2	RSL		
Nitroglycerin	55-63-0	n		6.3	RSL		
Nitroguanidine	556-88-7	n		6300	RSL		
Nitromethane	75-52-5	c		54	RSL		
Nitropropane, 2-	79-46-9	c		0.64	RSL		

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Nitroso-N-ethylurea, N-	759-73-9	c		0.045	RSL		
Nitroso-N-methylurea, N-	684-93-5	c		0.01	RSL		
Nitrosodibutylamine, N-	924-16-3	c		0.99	RSL		
Nitrosodiethanolamine, N-	1116-54-7	c		1.9	RSL		
Nitrosodiethylamine, N-	55-18-5	c		0.0081	RSL		
Nitrosodimethylamine, N-	62-75-9	c		0.02	RSL		
Nitrosodiphenylamine, N-	86-30-6	c	TCL	1100	RSL		
Nitrosodipropylamine, N-	621-64-7	c	TCL	0.78	RSL		
Nitrosomethylethylamine, N-	10595-95-6	c		0.2	RSL		
Nitrosomorpholine [N-]	59-89-2	c		0.81	RSL		
Nitrosopiperidine [N-]	100-75-4	c		0.58	RSL		
Nitrosopyrrolidine, N-	930-55-2	c		2.6	RSL		
Nitrotoluene, m-	99-08-1	n		6.3	RSL		
Nitrotoluene, o-	88-72-2	c		32	RSL		
Nitrotoluene, p-	99-99-0	n		250	RSL		
Nonane, n-	111-84-2	n		11	RSL		
Norflurazon	27314-13-2	n		95	RSL		
Octabromodiphenyl Ether	32536-52-0	n		190	RSL		
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	n		3900	RSL		
Octamethylpyrophosphoramidate	152-16-9	n		130	RSL		
Oryzalin	19044-88-3	c		700	RSL		
Oxadiazon	19666-30-9	n		320	RSL		
Oxamyl	23135-22-0	n		1600	RSL	200	MCL
Oxyfluorfen	42874-03-3	c		74	RSL		
Pacllobutrazol	76738-62-0	n		820	RSL		
Paraquat Dichloride	1910-42-5	n		280	RSL		
Parathion	56-38-2	n		380	RSL		
Pebulate	1114-71-2	n		3900	RSL		
Pendimethalin	40487-42-1	n		19000	RSL		
Pentabromodiphenyl Ether	32534-81-9	n		160	RSL		
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	n		6.3	RSL		
Pentachlorobenzene	608-93-5	n		63	RSL		
Pentachloroethane	76-01-7	c		77	RSL		
Pentachloronitrobenzene	82-68-8	c		27	RSL		
Pentachlorophenol	87-86-5	c	TCL	10	RSL	1	MCL
Pentaerythritol tetranitrate (PETN)	78-11-5	n		570	RSL		
Pentamethylphosphoramidate (PMPA)	10159-46-3	n		6.3	RSL		
Pentane, n-	109-66-0	n		810	RSL		
Per- and Polyfluoroalkyl Substances (PFAS Salts)							
~Ammonium perfluoro-2-methyl-3-oxahexanoate	62037-80-3	n		0.19	RSL		
~Ammonium perfluorobutanoate	10495-86-0	n		78	RSL		
~Ammonium perfluorohexanoate	21615-47-4	n		32	RSL		
~Ammonium perfluorooctanoate	3825-26-1	c		0.0002	RSL		
~Lithium bis[(trifluoromethyl)sulfonyl]azanide	90076-65-6	n		23	RSL		
~Potassium heptafluorobutanoate	2966-54-3	n		160	RSL		
~Potassium perfluorobutanesulfonate	29420-49-3	n		19	RSL		
~Potassium perfluorooctanesulfonate	2795-39-3	n		0.0063	RSL		
~Sodium perfluorobutanoate	2218-54-4	n		78	RSL		
~Sodium perfluorohexanoate	2923-26-4	n		32	RSL		
Per- and Polyfluoroalkyl Substances (PFAS)							
~Bis(trifluoromethylsulfonyl)amine (TFSl)	82113-65-3	n		23	RSL		
~Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	n		0.23	RSL	0.01	MCL
~Perfluorobutanesulfonate	45187-15-3	n		19	RSL		
~Perfluorobutanesulfonic acid (PFBS)	375-73-5	n		19	RSL		
~Perfluorobutanoate	45048-62-2	n		78	RSL		
~Perfluorobutanoic acid (PFBA)	375-22-4	n		78	RSL		
~Perfluorododecanoic acid (PFDoDA)	307-55-1	n		3.2	RSL		

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~Perfluorohexanesulfonate	108427-53-8	n		1.3	RSL	0.01	MCL
~Perfluorohexanesulfonic acid (PFHxS)	355-46-4	n		1.3	RSL	0.01	MCL
~Perfluorohexanoate	92612-52-7	n		32	RSL		
~Perfluorohexanoic acid (PFHxA)	307-24-4	n		32	RSL		
~Perfluorononanoate	72007-68-2	n		0.19	RSL	0.01	MCL
~Perfluorononanoic acid (PFNA)	375-95-1	n		0.19	RSL	0.01	MCL
~Perfluorooctadecanoic acid (PFODA)	16517-11-6	n		2500	RSL		
~Perfluorooctanesulfonate	45298-90-6	n		0.0063	RSL	0.004	MCL
~Perfluorooctanesulfonic acid (PFOS)	1763-23-1	n		0.0063	RSL	0.004	MCL
~Perfluorooctanoate	45285-51-6	c		0.0002	RSL	0.004	MCL
~Perfluorooctanoic acid (PFOA)	335-67-1	c		0.0002	RSL	0.004	MCL
~Perfluoropropanoic acid (PFPrA)	422-64-0	n		39	RSL		
~Perfluorotetradecanoic acid (PFTetDA)	376-06-7	n		63	RSL		
~Perfluoroundecanoic acid (PFUDA)	2058-94-8	n		19	RSL		
Perchlorates							
~Ammonium Perchlorate	7790-98-9	n		55	RSL		
~Lithium Perchlorate	7791-03-9	n		55	RSL		
~Perchlorate and Perchlorate Salts	14797-73-0	n		55	RSL	15	MCL
~Potassium Perchlorate	7778-74-7	n		55	RSL		
~Sodium Perchlorate	7601-89-0	n		55	RSL		
Permethrin	52645-53-1	n		3200	RSL		
Phenacetin	62-44-2	c		2500	RSL		
Phenmedipham	13684-63-4	n		15000	RSL		
Phenol	108-95-2	n	TCL	19000	RSL		
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1	n		250	RSL		
Phenothiazine	92-84-2	n		32	RSL		
Phenyl Isothiocyanate	103-72-0	n		16	RSL		
Phenylenediamine, m-	108-45-2	n		380	RSL		
Phenylenediamine, o-	95-54-5	c		45	RSL		
Phenylenediamine, p-	106-50-3	n		63	RSL		
Phenylphenol, 2-	90-43-7	c		2800	RSL		
Phorate	298-02-2	n		13	RSL		
Phosgene	75-44-5	n		0.31	RSL		
Phosmet	732-11-6	n		1300	RSL		
Phosphates, Inorganic							
~Aluminum metaphosphate	13776-88-0	n		100000	MAX		
~Aluminum salts of inorganic phosphates	E524680405	n		23000	RSL		
~Dipotassium phosphate	7758-11-4	n		78000	RSL		
~Disodium phosphate	7558-79-4	n		78000	RSL		
~Monoaluminum phosphate	13530-50-2	n		100000	MAX		
~Monopotassium phosphate	7778-77-0	n		78000	RSL		
~Monosodium phosphate	7558-80-7	n		78000	RSL		
~Phosphoric acid, aluminum salt (1:1) [aluminum phosphate]	7784-30-7	n		86000	RSL		
SALP]]	7785-88-8	n		100000	MAX		
~Polyphosphoric acid	8017-16-1	n		78000	RSL		
~Potassium salts of inorganic phosphates	E524680403	n		78000	RSL		
~Potassium triphosphate	13845-36-8	n		78000	RSL		
~Sodium aluminum phosphate (anhydrous)	10279-59-1	n		100000	MAX		
~Sodium aluminum phosphate (tetrahydrate)	10305-76-7	n		100000	MAX		
~Sodium hexametaphosphate	10124-56-8	n		78000	RSL		
~Sodium polyphosphate	68915-31-1	n		78000	RSL		
~Sodium pyrophosphate	7758-16-9	n		78000	RSL		
~Sodium salts of inorganic phosphates	E524680404	n		78000	RSL		
~Sodium trimetaphosphate	7785-84-4	n		78000	RSL		
~Sodium triphosphate	7758-29-4	n		78000	RSL		
~Tetrapotassium phosphate	7320-34-5	n		78000	RSL		
~Tetrasodium pyrophosphate	7722-88-5	n		78000	RSL		

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~Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	n		100000	MAX		
~Triphosphoric acid, aluminum salt (1:1) [aluminum triphosphate]	13939-25-8	n		100000	MAX		
~Tripotassium phosphate	7778-53-2	n		78000	RSL		
~Trisodium phosphate	7601-54-9	n		78000	RSL		
Phosphine	7803-51-2	n		23	RSL		
Phosphoric Acid	7664-38-2	n		78000	RSL		
Phosphorus, White	7723-14-0	n		1.6	RSL		
Phthalates							
~Bis(2-ethylhexyl)phthalate	117-81-7	c	TCL	390	RSL	6	MCL
~Butyl Benzyl Phthalate	85-68-7	c	TCL	2900	RSL		
~Butylphthalyl Butylglycolate	85-70-1	n		63000	RSL		
~Dibutyl Phthalate	84-74-2	n	TCL	6300	RSL		
~Diethyl Phthalate	84-66-2	n	TCL	51000	RSL		
~Dimethylterephthalate	120-61-6	n		7800	RSL		
~Octyl Phthalate, di-N-	117-84-0	n	TCL	630	RSL		
~Phthalic Acid, p-	100-21-0	n		32000	RSL		
~Phthalic Anhydride	85-44-9	n		100000	MAX		
Picloram	1918-02-1	n		4400	RSL	500	MCL
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	n		6.3	RSL		
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	n		130	RSL		
Pirimiphos, Methyl	29232-93-7	n		46	RSL		
Polybrominated Biphenyls	36355-01-8	c		0.18	RSL		
Polychlorinated Biphenyls (PCBs)							
~Aroclor 1016	12674-11-2	n	TCL	4.1	RSL		
~Aroclor 1221	11104-28-2	c	TCL	2	RSL		
~Aroclor 1232	11141-16-5	c	TCL	1.7	RSL		
~Aroclor 1242	53469-21-9	c	TCL	2.3	RSL		
~Aroclor 1248	12672-29-6	c	TCL	2.3	RSL		
~Aroclor 1254	11097-69-1	n	TCL	1.2	RSL		
~Aroclor 1260	11096-82-5	c	TCL	2.4	RSL		
~Aroclor 5460	11126-42-4	n		35	RSL		
~Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	c		1.3	RSL		
~Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	c		1.2	RSL		
~Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	c		1.2	RSL		
~Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	c		1.2	RSL		
~Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	c		0.0012	RSL		
~Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	c		1.2	RSL		
~Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	c		1.2	RSL		
~Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	c		1.2	RSL		
~Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	c		1.2	RSL		
~Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	c		0.0004	RSL		
~Polychlorinated Biphenyls (Total PCBs)	1336-36-3	c		2.3	RSL	0.5	MCL
~Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	c		0.38	RSL		
~Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	c		0.12	RSL		
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	n		100000	MAX		
Polynuclear Aromatic Hydrocarbons (PAHs)							
~Acenaphthene	83-32-9	n	TCL	3600	RSL		
~Anthracene	120-12-7	n	TCL	18000	RSL		
~Benz[a]anthracene	56-55-3	c	TCL	11	RSL		
~Benzo[a]pyrene	50-32-8	c	TCL	1.1	RSL	0.2	MCL
~Benzo[b]fluoranthene	205-99-2	c	TCL	11	RSL		
~Benzo[e]pyrene	192-97-2	n		5.7	RSL		
~Benzo[j]fluoranthene	205-82-3	c		4.2	RSL		
~Benzo[k]fluoranthene	207-08-9	c	TCL	110	RSL		
~Chloronaphthalene, Beta-	91-58-7	n	TCL	4800	RSL		
~Chrysene	218-01-9	c	TCL	1100	RSL		
~Dibenz[a,h]anthracene	53-70-3	c	TCL	1.1	RSL		

HSCA Human Health Reporting Level Table - October 2024

Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
~Dibenzo[a,e]pyrene	192-65-4	c		0.42	RSL		
~Dimethylbenz[a]anthracene, 7,12-	57-97-6	c		0.0046	RSL		
~Fluoranthene	206-44-0	n	TCL	2400	RSL		
~Fluorene	86-73-7	n	TCL	2400	RSL		
~Indeno[1,2,3-cd]pyrene	193-39-5	c	TCL	11	RSL		
~Methylnaphthalene, 1-	90-12-0	n		0.18	RSL		
~Methylnaphthalene, 2-	91-57-6	n	TCL	240	RSL		
~Naphthalene	91-20-3	c	TCL	20	RSL		
~Nitropyrene, 4-	57835-92-4	c		4.2	RSL		
~Perylene	198-55-0	n		5.4	RSL		
~Phenanthrene	85-01-8	n	TCL	1800	PYR		
~Pyrene	129-00-0	n	TCL	1800	RSL		
Prochloraz	67747-09-5	c		36	RSL		
Profluralin	26399-36-0	n		470	RSL		
Prometon	1610-18-0	n		950	RSL		
Prometryn	7287-19-6	n		2500	RSL		
Pronamide	23950-58-5	n		4700	RSL		
Propachlor	1918-16-7	n		820	RSL		
Propanil	709-98-8	n		320	RSL		
Propargite	2312-35-8	c		28	RSL		
Propargyl Alcohol	107-19-7	n		160	RSL		
Propazine	139-40-2	n		1300	RSL		
Propham	122-42-9	n		1300	RSL		
Propiconazole	60207-90-1	n		6300	RSL		
Propionaldehyde	123-38-6	n		75	RSL		
Propyl benzene	103-65-1	n		3800	RSL		
Propylene	115-07-1	n		2200	RSL		
Propylene Glycol	57-55-6	n		100000	MAX		
Propylene Glycol Dinitrate	6423-43-4	n		100000	MAX		
Propylene Glycol Monomethyl Ether	107-98-2	n		41000	RSL		
Propylene Oxide	75-56-9	c		21	RSL		
Pyridine	110-86-1	n		78	RSL		
Quinalphos	13593-03-8	n		32	RSL		
Quinoline	91-22-5	c		1.8	RSL		
Quizalofop-ethyl	76578-14-8	n		570	RSL		
Resmethrin	10453-86-8	n		1900	RSL		
Ronnel	299-84-3	n		3900	RSL		
Rotenone	83-79-4	n		250	RSL		
Safrole	94-59-7	c		5.5	RSL		
Selenious Acid	7783-00-8	n		390	RSL		
Selenium	7782-49-2	n	TAL	390	RSL	50	MCL
Selenium Sulfide	7446-34-6	n		390	RSL		
Sethoxydim	74051-80-2	n		8800	RSL		
Silica (crystalline, respirable)	7631-86-9	n		5000	NIOSH		
Silver	7440-22-4	n	TAL	390	RSL		
Simazine	122-34-9	c		45	RSL	4	MCL
Sodium Acifluorfen	62476-59-9	n		820	RSL		
Sodium Azide	26628-22-8	n		310	RSL		
Sodium Diethyldithiocarbamate	148-18-5	c		20	RSL		
Sodium Fluoride	7681-49-4	n		3900	RSL		
Sodium Fluoroacetate	62-74-8	n		1.3	RSL		
Sodium Metavanadate	13718-26-8	n		78	RSL		
Sodium Tungstate	13472-45-2	n		63	RSL		
Sodium Tungstate Dihydrate	10213-10-2	n		63	RSL		
Stirofos (Tetrachlorovinphos)	961-11-5	c		230	RSL		
Strontium, Stable	7440-24-6	n		47000	RSL		
Strychnine	57-24-9	n		19	RSL		

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Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Styrene	100-42-5	n	TCL	6000	RSL	100	MCL
Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)	57964-39-3	n		190	RSL		
Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)	57964-40-6	n		190	RSL		
Sulfolane	126-33-0	n		63	RSL		
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	n		51	RSL		
Sulfur Trioxide	7446-11-9	n		100000	MAX		
Sulfuric Acid	7664-93-9	n		100000	MAX		
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8	c		220	RSL		
Tebuthiuron	34014-18-1	n		4400	RSL		
Temephos	3383-96-8	n		1300	RSL		
Terbacil	5902-51-2	n		820	RSL		
Terbufos	13071-79-9	n		2	RSL		
Terbutryn	886-50-0	n		63	RSL		
Tert-Butyl Acetate	540-88-5	c		81	RSL		
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1	n		6.3	RSL		
Tetrachlorobenzene, 1,2,4,5-	95-94-3	n	TCL	2.3	RSL		
Tetrachloroethane, 1,1,1,2-	630-20-6	c		20	RSL		
Tetrachloroethane, 1,1,2,2-	79-34-5	c	TCL	6	RSL		
Tetrachloroethylene	127-18-4	n	TCL	81	RSL		1 DE_MCL
Tetrachlorophenol, 2,3,4,6-	58-90-2	n	TCL	1900	RSL		
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	c		0.43	RSL		
Tetraethyl Dithiopyrophosphate	3689-24-5	n		32	RSL		
Tetrafluoroethane, 1,1,1,2-	811-97-2	n		100000	MAX		
Tetramethylphosphoramidate, -N,N,N',N' (TMPA)	16853-36-4	n		6.3	RSL		
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	n		160	RSL		
Thallic Oxide	1314-32-5	n		1.6	RSL		
Thallium (I) Nitrate	10102-45-1	n		0.78	RSL		
Thallium (Soluble Salts)	7440-28-0	n	TAL	0.78	RSL		2 MCL
Thallium Acetate	563-68-8	n		0.78	RSL		
Thallium Carbonate	6533-73-9	n		1.3	RSL		
Thallium Chloride	7791-12-0	n		0.78	RSL		
Thallium Selenite	12039-52-0	n		0.78	RSL		
Thallium Sulfate	7446-18-6	n		1.6	RSL		
Thifensulfuron-methyl	79277-27-3	n		2700	RSL		
Thiobencarb	28249-77-6	n		630	RSL		
Thiocyanic acid, (2-benzothiazolylthio)methyl ester (TCMTB)	21564-17-0	n		1900	RSL		
Thiodiglycol	111-48-8	n		5400	RSL		
Thiofanox	39196-18-4	n		19	RSL		
Thiophanate, Methyl	23564-05-8	c		470	RSL		
Thiram	137-26-8	n		950	RSL		
Tin	7440-31-5	n		47000	RSL		
Titanium Tetrachloride	7550-45-0	n		50000	NIOSH		
Toluene	108-88-3	n	TCL	4900	RSL	1000	MCL
Toluene-2,4-diisocyanate	584-84-9	n		6.4	RSL		
Toluene-2,6-diisocyanate	91-08-7	n		5.3	RSL		
Toluenediamine, 2,3-	2687-25-4	n		6.3	RSL		
Toluenediamine, 2,5-	95-70-5	n		13	RSL		
Toluenediamine, 3,4-	496-72-0	n		6.3	RSL		
Toluic Acid, p-	99-94-5	n		320	RSL		
Toluidine, o- (Methylaniline, 2-)	95-53-4	c		340	RSL		
Toluidine, p-	106-49-0	c		180	RSL		
Total Petroleum Hydrocarbons (TPH)							
~Diesel Range Organics (DRO)	TPH_DRO			1000	DRO		
~Gasoline Range Organics (GRO)	TPH_GRO			100	GRO		
~Total Petroleum Hydrocarbons (Aliphatic High)	E1790670	n		100000	MAX		
~Total Petroleum Hydrocarbons (Aliphatic Low)	E1790666	n		250	RSL		
~Total Petroleum Hydrocarbons (Aliphatic Medium)	E1790668	n		96	RSL		

HSCA Human Health Reporting Level Table - October 2024

Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
~Total Petroleum Hydrocarbons (Aromatic High)	E1790676	n		18	RSL		
~Total Petroleum Hydrocarbons (Aromatic Medium)	E1790674	n		300	RSL		
Toxaphene	8001-35-2	c	TCL	4.9	RSL	3	MCL
Toxaphene, Weathered	E1841606	n		1.9	RSL		
Tralomehrin	66841-25-6	n		470	RSL		
Tri-n-butyltin	688-73-3	n		23	RSL		
Triacetin	102-76-1	n		100000	MAX		
Triadimefon	43121-43-3	n		2100	RSL		
Triallate	2303-17-5	c		97	RSL		
Triasulfuron	82097-50-5	n		630	RSL		
Tribenuron-methyl	101200-48-0	n		510	RSL		
Tribromobenzene, 1,2,4-	615-54-3	n		390	RSL		
Tribromophenol, 2,4,6-	118-79-6	n		570	RSL		
Tribufos	78-48-8	n		13	RSL		
Tributyl Phosphate	126-73-8	c		600	RSL		
Tributyltin Compounds	E1790679	n		19	RSL		
Tributyltin Oxide	56-35-9	n		19	RSL		
Trichloro-1,1,2-trifluoroethane, 1,1,2-	76-13-1	n	TCL	6700	RSL		
Trichloroacetic Acid	76-03-9	c		78	RSL	60	MCL
Trichloroaniline HCl, 2,4,6-	33663-50-2	c		190	RSL		
Trichloroaniline, 2,4,6-	634-93-5	n		1.9	RSL		
Trichlorobenzene, 1,2,3-	87-61-6	n	TCL	63	RSL		
Trichlorobenzene, 1,2,4-	120-82-1	n	TCL	58	RSL	70	MCL
Trichloroethane, 1,1,1-	71-55-6	n	TCL	8100	RSL	200	MCL
Trichloroethane, 1,1,2-	79-00-5	n	TCL	1.5	RSL	5	MCL
Trichloroethylene	79-01-6	n	TCL	4.1	RSL	1	DE_MCL
Trichlorofluoromethane	75-69-4	n	TCL	23000	RSL		
Trichlorophenol, 2,4,5-	95-95-4	n	TCL	6300	RSL		
Trichlorophenol, 2,4,6-	88-06-2	n	TCL	63	RSL		
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	n		630	RSL		
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	n		510	RSL	50	MCL
Trichloropropane, 1,1,2-	598-77-6	n		390	RSL		
Trichloropropane, 1,2,3-	96-18-4	c		0.051	RSL		
Trichloropropene, 1,2,3-	96-19-5	n		0.73	RSL		
Tricresyl Phosphate (TCP)	1330-78-5	n		1300	RSL		
Tridiphane	58138-08-2	n		190	RSL		
Triethylamine	121-44-8	n		120	RSL		
Triethylene Glycol	112-27-6	n		100000	MAX		
Trifluoroethane, 1,1,1-	420-46-2	n		15000	RSL		
Trifluralin	1582-09-8	n		590	RSL		
Trimethyl Phosphate	512-56-1	c		270	RSL		
Trimethylbenzene, 1,2,3-	526-73-8	n		340	RSL		
Trimethylbenzene, 1,2,4-	95-63-6	n		300	RSL		
Trimethylbenzene, 1,3,5-	108-67-8	n		270	RSL		
Trimethylpentene, 2,4,4-	25167-70-8	n		780	RSL		
Trinitrobenzene, 1,3,5-	99-35-4	n		2200	RSL		
Trinitrotoluene, 2,4,6-	118-96-7	n		36	RSL		
Triphenylphosphine Oxide	791-28-6	n		1300	RSL		
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	n		1300	RSL		
Tris(1-chloro-2-propyl)phosphate	13674-84-5	n		630	RSL		
Tris(2,3-dibromopropyl)phosphate	126-72-7	c		2.8	RSL		
Tris(2-chloroethyl)phosphate	115-96-8	c		270	RSL		
Tris(2-ethylhexyl)phosphate	78-42-2	c		1700	RSL		
Tungsten	7440-33-7	n		63	RSL		
Uranium (Soluble Salts)	7440-61-1	n		16	RSL	30	MCL
Urethane	51-79-6	c		1.2	RSL		
Vanadium Pentoxide	1314-62-1	n		660	RSL		

HSCA Human Health Reporting Level Table - October 2024

Analyte	CAS No.	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Vanadium and Compounds	7440-62-2	n	TAL	390	RSL		
Vernolate	1929-77-7	n		78	RSL		
Vinclozolin	50471-44-8	n		76	RSL		
Vinyl Acetate	108-05-4	n		910	RSL		
Vinyl Bromide	593-60-2	c		2.6	RSL		
Vinyl Chloride	75-01-4	c	TCL	0.59	RSL	1	DE_MCL
Warfarin	81-81-2	n		19	RSL		
Xylene, m-	108-38-3	n		550	RSL		
Xylene, o-	95-47-6	n	TCL	640	RSL		
Xylene, p-	106-42-3	n		560	RSL		
Xylenes	1330-20-7	n		580	RSL	10000	MCL
Zinc Phosphide	1314-84-7	n		23	RSL		
Zinc and Compounds	7440-66-6	n	TAL	23000	RSL		
Zineb	12122-67-7	n		3200	RSL		
Zirconium	7440-67-7	n		6.3	RSL		

HSCA Human Health Reporting Level Table Comparison - October 2024 vs November 2023

Row Color	Description
yellow	New row October 2024
blue	Old row November 2023
gray	Change effect from old to new

HSCA Human Health Reporting Level Table Comparison - October 2024 vs November 2023

Analyte	CAS No.	Type of Observation	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Aliphatic hydrocarbons, C19-C36	C19-C36 aliphatic	November 2023			3000 MAG			
Aliphatic hydrocarbons, C5-C8	C5-C8 aliphatic	November 2023			100 MAG			
Aliphatic hydrocarbons, C9-C12	C9-C12 aliphatic	November 2023			1000 MAG			
Aliphatic hydrocarbons, C9-C18	C9-C18 aliphatic	November 2023			1000 MAG			
Aluminum metaphosphate	13776-88-0	October 2024	n		100000 MAX			
Aluminum salts of inorganic phosphates	E524680405	October 2024	n		23000 RSL			
Ammonium perfluorobutanoate	10495-86-0	November 2023	n		63 RSL			
Ammonium perfluorobutanoate	10495-86-0	October 2024	n		78 RSL			
Ammonium perfluorobutanoate	.....	Change Effect	.	...	15 .....			.....
Ammonium perfluorohexanoate	21615-47-4	November 2023	n		39 RSL			
Ammonium perfluorohexanoate	21615-47-4	October 2024	n		32 RSL			
Ammonium perfluorohexanoate	.....	Change Effect	.	...	-7 .....			.....
Ammonium perfluorooctanoate	3825-26-1	October 2024	c		0.00019 RSL			
Aromatic hydrocarbons, C11-C22	C11-C22 aromatic	November 2023			1000 MAG			
Aromatic hydrocarbons, C9-C10	C9-C10 aromatic	November 2023			100 MAG			
Benzene, Trimethyl	25551-13-7	October 2024	n		51 RSL			
Benzo(e)pyrene	192-97-2	November 2023	n		5.7 RSL			
Benzo(j)fluoranthene	205-82-3	November 2023	c		4.2 RSL			
Benzo[e]pyrene	192-97-2	October 2024	n		5.7 RSL			
Benzo[j]fluoranthene	205-82-3	October 2024	c		4.2 RSL			
Bis(trifluoromethylsulfonyl)amine (TFSl)	82113-65-3	October 2024	n		23 RSL			
Chromium(III) (Soluble Compounds)	16065-83-1	October 2024	n		85000 RSL			
Dibenzo(a,e)pyrene	192-65-4	November 2023	c		0.42 RSL			
Dibenzo[a,e]pyrene	192-65-4	October 2024	c		0.42 RSL			
Dimethoxybenzidine, 3,3'-	119-90-4	November 2023	c		3.3 RSL			
Dimethoxybenzidine, 3,3'-	119-90-4	October 2024	c		3.4 RSL			
Dimethoxybenzidine, 3,3'-	.....	Change Effect	.	...	0.1 .....			.....
Dimethylbenz(a)anthracene, 7,12-	57-97-6	November 2023	c		0.0046 RSL			
Dimethylbenz[a]anthracene, 7,12-	57-97-6	October 2024	c		0.0046 RSL			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	November 2023	n		0.23 RSL			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	October 2024	n		0.23 RSL		0.01	MCL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	.....	Change Effect	.	...	- .....			- XXX...
Lead and Compounds	7439-92-1	November 2023		TAL	400 RSL			15 MCL
Lead and Compounds	7439-92-1	October 2024		TAL	200 RSL			15 MCL
Lead and Compounds	.....	Change Effect	.	...	-200			-
Lead and Compounds (with other sources of lead present, see Guidance)	7439-92-1	October 2024		TAL	100 RSL			-
Lithium bis[(trifluoromethyl)sulfonyl]azanide	90076-65-6	October 2024	n		23 RSL			
Methylcyclohexane	108-87-2	October 2024	n		98 RSL			
Methylnaphthalene, 1-	90-12-0	November 2023	c		180 RSL			
Methylnaphthalene, 1-	90-12-0	October 2024	n		0.18 RSL			
Methylnaphthalene, 1-	.....	Change Effect	X	...	-179.82			-
Monoaluminum phosphate	13530-50-2	October 2024	n		100000 MAX			
Nickel Soluble Salts	7440-02-0	November 2023	n	TAL	1500 RSL			100 DE_MCL
Nickel Soluble Salts	7440-02-0	October 2024	n	TAL	1400 RSL			100 DE_MCL
Nickel Soluble Salts	.....	Change Effect	.	...	-100			-
Nitroso-di-N-butylamine, N-	924-16-3	November 2023	c		0.99 RSL			
Nitroso-di-N-propylamine, N-	621-64-7	November 2023	c	TCL	0.78 RSL			
Nitrosodibutylamine, N-	924-16-3	October 2024	c		0.99 RSL			
Nitrosodipropylamine, N-	621-64-7	October 2024	c	TCL	0.78 RSL			
Perfluorododecanoic acid (PFDoDA)	307-55-1	October 2024	n		3.2 RSL			
Perfluorohexanesulfonate	108427-53-8	November 2023	n		1.3 RSL			
Perfluorohexanesulfonate	108427-53-8	October 2024	n		1.3 RSL		0.01	MCL
Perfluorohexanesulfonate	.....	Change Effect	.	...	- .....			- XXX...
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	November 2023	n		1.3 RSL			
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	October 2024	n		1.3 RSL		0.01	MCL
Perfluorohexanesulfonic acid (PFHxS)	.....	Change Effect	.	...	- .....			- XXX...
Perfluorohexanoate	92612-52-7	November 2023	n		32 M-RSL			
Perfluorohexanoate	92612-52-7	October 2024	n		32 RSL			
Perfluorohexanoate	.....	Change Effect	.	...	- XXXXX			-
Perfluorononanoate	72007-68-2	November 2023	n		0.19 RSL			
Perfluorononanoate	72007-68-2	October 2024	n		0.19 RSL		0.01	MCL
Perfluorononanoate	.....	Change Effect	.	...	- .....			- XXX...
Perfluorononanoic acid (PFNA)	375-95-1	November 2023	n		0.19 RSL			
Perfluorononanoic acid (PFNA)	375-95-1	October 2024	n		0.19 RSL		0.01	MCL
Perfluorononanoic acid (PFNA)	.....	Change Effect	.	...	- .....			- XXX...
Perfluorooctadecanoic acid (PFODA)	16517-11-6	October 2024	n		2500 RSL			
Perfluorooctanesulfonate	45298-90-6	November 2023	n		0.13 RSL		0.07	HAL
Perfluorooctanesulfonate	45298-90-6	October 2024	n		0.0063 RSL		0.004	MCL
Perfluorooctanesulfonate	.....	Change Effect	.	...	-0.1237			-0.066 XX....
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	November 2023	n		0.13 RSL		0.07	HAL
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	October 2024	n		0.0063 RSL		0.004	MCL
Perfluorooctanesulfonic acid (PFOS)	.....	Change Effect	.	...	-0.1237			-0.066 XX....
Perfluorooctanoate	45285-51-6	November 2023	n		0.19 RSL		0.07	HAL
Perfluorooctanoate	45285-51-6	October 2024	c		0.00019 RSL		0.004	MCL
Perfluorooctanoate	.....	Change Effect	X	...	-0.18981			-0.066 XX....
Perfluorooctanoic acid (PFOA)	335-67-1	November 2023	n		0.19 RSL		0.07	HAL
Perfluorooctanoic acid (PFOA)	335-67-1	October 2024	c		0.00019 RSL		0.004	MCL
Perfluorooctanoic acid (PFOA)	.....	Change Effect	X	...	-0.18981			-0.066 XX....

HSCA Human Health Reporting Level Table Comparison - October 2024 vs November 2023

Analyte	CAS No.	Type of Observation	Status	TAL or TCL	Soil (mg/kg)	Key	Groundwater (ug/L)	Key
Perfluoropropanoic acid (PFPrA)	422-64-0	October 2024	n		39 RSL		-	
Perfluorotetradecanoic acid (PFTetDA)	376-06-7	October 2024	n		63 RSL		-	
Perfluoroundecanoic acid (PFUDA)	2058-94-8	October 2024	n		19 RSL		-	
Phosphoric acid, aluminum salt (1:1) [aluminum phosphate]	7784-30-7	October 2024	n		86000 RSL		-	
Phosphoric acid, aluminum sodium salt (1:X:X) [sodium aluminum phosphate acidic (acidic SALP)]	7785-88-8	October 2024	n		100000 MAX		-	
Potassium perfluorooctanesulfonate	2795-39-3	November 2023	n		0.13 RSL		-	
Potassium perfluorooctanesulfonate	2795-39-3	October 2024	n		0.0063 RSL		-	
Potassium perfluorooctanesulfonate	.....	Change Effect	.	...	-0.1237 .....		-	.....
Potassium salts of inorganic phosphates	E524680403	October 2024	n		78000 RSL		-	
Sodium aluminum phosphate (anhydrous)	10279-59-1	October 2024	n		100000 MAX		-	
Sodium aluminum phosphate (tetrahydrate)	10305-76-7	October 2024	n		100000 MAX		-	
Sodium perfluorohexanoate	2923-26-4	November 2023	n		39 RSL		-	
Sodium perfluorohexanoate	2923-26-4	October 2024	n		32 RSL		-	
Sodium perfluorohexanoate	.....	Change Effect	.	...	-7 .....		-	.....
Sodium salts of inorganic phosphates	E524680404	October 2024	n		78000 RSL		-	
Total Petroleum Hydrocarbons (Aliphatic High)	E1790670	October 2024	n		100000 MAX		-	
Total Petroleum Hydrocarbons (Aliphatic Low)	E1790666	October 2024	n		250 RSL		-	
Total Petroleum Hydrocarbons (Aliphatic Medium)	E1790668	October 2024	n		96 RSL		-	
Total Petroleum Hydrocarbons (Aromatic High)	E1790676	October 2024	n		18 RSL		-	
Total Petroleum Hydrocarbons (Aromatic Medium)	E1790674	October 2024	n		300 RSL		-	
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	October 2024	n		100000 MAX		-	
Triphosphoric acid, aluminum salt (1:1) [aluminum triphosphate]	13939-25-8	October 2024	n		100000 MAX		-	