



**Site-Specific Sampling and
Analysis Plan Addendum, Revision
1 – Underground Storage Tank
Cleanup**

Former Blue Heron Mill Site

US Environmental Protection Agency
Region 10

Brownfield Multipurpose Grant
Cooperative Agreement No. BF-01J99101

Prepared for:

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September 20, 2023



Sign-off Sheet

Document Title: Site-Specific Sampling and Analysis Plan Addendum, Revision 1 –
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Prepared by: Stantec Consulting Services Inc.
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Date: September 20, 2023

Title	Name	Signature	Date of Approval
EPA Region 10 Brownfields Project Officer	Margaret Olson		
EPA Region 10 Quality Assurance Manager	Cindy Fields		
DEQ Project Manager	Mark Pugh		
Tribe Project Manager	Ryan Webb		
Stantec Project Manager	Leonard Farr Jr.		9/20/23
Stantec Field Manager	Robert McAlister		9/20/23

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Robert McAlister, RG
Associate Geologist



Leonard Farr Jr., RG, LG
Principal Geologist



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Introduction

1.0 INTRODUCTION

On behalf of the Confederated Tribes of Grand Ronde (CTGR), Stantec Consulting Services Inc. (Stantec) is pleased to provide this Site-Specific Sampling and Analysis Plan (SAP) Addendum, Revision 1 for underground storage tank (UST) decommissioning and cleanup at the Former Blue Heron Mill Site located at 427 Main Street in Oregon City, Oregon (the “Property”). This SAP addendum was prepared to supplement the October 24, 2022 SAP, Revision 1 – UST Assessment/Removal prepared by Stantec and approved by the US Environmental Protection Agency (EPA) and Oregon Department of Environmental Quality (DEQ) on October 25, 2022. This Revision 1 version addresses comments received from the DEQ (received via email on September 1, 2023) and EPA (received via email on September 18, 2023) on the initial SAP Addendum dated August 16, 2023.

UST removal/cleanup activities will be funded through the CTGR’s EPA Brownfield Multipurpose Grant (EPA Cooperative Agreement Number BF-01J99101). All work described herein will be completed in accordance with the Master Quality Assurance Project Plan (QAPP, Stantec 2022) prepared for the CTGR’s Brownfield Project approved by the DEQ on May 17, 2022 and by the EPA on May 23, 2022.

Of note, in April 2023, the DEQ updated its screening criteria (DEQ, 2023a and 2023b). Stantec has compared contract laboratory reporting limits to these new screening criteria and determined that the testing methods specified in this SAP Addendum are sufficient to allow comparison to new groundwater screening criteria (no soil vapor sampling is specified herein, and no new screening criteria for soil are included in the new screening criteria). All reports prepared related to this project will compare laboratory testing data to the most recent available DEQ screening criteria. Tables published by the DEQ containing these new screening criteria are included in **Appendix A**.

1.1 PROJECT ORGANIZATION

The UST removal/cleanup team will be led by Stantec Project Manager (PM) Leonard Farr. Key team member roles and responsibilities are summarized below. If this organizational structure changes at any time during the project, the change will be documented in an amendment to this SAP.

EPA Region 10 Brownfields Project Officer: Margaret Olson

Phone: (503) 326-5874

The EPA is the lead funding agency for the project. The EPA Region 10 Brownfields Project Officer will review and approve the SAP Addendum and will monitor activities for this project.

EPA Region 10 Brownfields Quality Assurance Manager: Cindy Fields

Phone: (206) 553-1893

The EPA Region 10 Brownfields Quality Assurance Manager will review and approve the SAP.



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DEQ Project Manager: Mark Pugh

Phone: (503) 229-5587

The DEQ, through its Voluntary Cleanup Program, is the lead regulatory agency for the project. The DEQ Project Manager will review and approve the SAP.

Confederated Tribes of Grand Ronde Project Manager: Ryan Webb, PE

Phone: (503) 879-2404

The CTGR PM is the primary point-of-contact for communications with the EPA, DEQ, and Stantec. The CTGR PM is responsible for overall project management, contract management, project cost accounting, and other business-related project tasks. The CTGR PM will coordinate all required reporting to the EPA Project Officer.

Stantec Project Manager: Leonard Farr Jr., RG, LG

Phone: (503) 220-5443

The Stantec PM will coordinate project activities, provide technical support and oversight, and will coordinate with internal staff so that the resources necessary to complete the project are available when needed. The Stantec PM will communicate with team members, coordinate daily operations, and maintain control over the schedule, budget, and technical aspects of the project. The Stantec PM will be responsible for deliverables and manage subcontractor procurement activities. The Stantec PM will review all deliverables to ensure that high-quality work products are produced. The Stantec PM will be responsible for distributing the finalized, approved SAP to each of the key project personnel via email.

Stantec QA/QC Manager: Carrie Rackey

Phone: (503) 220-5462

The Stantec Quality Assurance/Quality Control (QA/QC) Manager will manage the review of data and deliverables generated during this project in accordance with the QAPP.

Stantec Health and Safety Officer and Field Manager: Robert McAlister, RG

Phone: (714) 686-4435

The Health and Safety Officer (HSO) will be responsible for ensuring that all field sampling activities performed by Stantec personnel follow guidelines contained in the project Site-Specific Health and Safety Plan (HASP) prepared in accordance with Occupational Health and Safety Administration (OSHA) guidelines. The HSO will be responsible for 1) completing a hazard analysis specific to the field activities described herein, 2) ensuring that Stantec field personnel have received appropriate levels of site-specific and general training; and 3) making sure that subcontractors receive a pre-work safety briefing (a.k.a. tailgate meeting), and that through this briefing and other communications, subcontractors are equipped to ensure their employees operate in a safe manner while on the project site, including the preparation of their own HASP. Subcontractor employees will sign-off that they have fulfilled their safety obligations by signing a certification form included in the project HASP.

The Field Manager (FM) will be responsible for implementing the field activities, including scheduling, documentation of field activities and assisting the UST Service Provider in the collection and handling of UST removal/cleanup confirmation soil samples.



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Analytical Laboratory: Apex Laboratories LLC

Project Manager: Philip Nerenberg

Phone: 503-718-2323

Apex Laboratories LLC (Apex) will be responsible for providing analytical testing services for samples described in this SAP. The Apex PM assigned to this project will report to the Stantec PM.

UST Service Provider: BB&A Environmental

Project Manager: Randy Boese

Phone: 503-570-9484 extension 1

BB&A Environmental (BB&A) will be responsible for UST removal/cleanup services and confirmation soil sampling described in Section 2 of this SAP addendum. BB&A is a licensed DEQ UST Service Provider (License #10974) under Oregon Administrative Rule (OAR) 340-160 and Oregon Revised Statute (ORS) Chapter 466. The BB&A PM will report directly to the Stantec PM.

1.2 PROPERTY LOCATION AND BACKGROUND

The Property is located at 419 - 427 Main Street, Oregon City, Oregon 97045 (**Figure 1**). A Property Layout Map showing buildings, roadways, and notable Property features, is shown on **Figure 2** and the location of the USTs is presented on **Figure 3**.

Additional Property location and background information is included in the SAP Revision 1 (Stantec, 2022b) prepared for the Property and previously submitted to DEQ and EPA.

1.3 PRIOR ENVIRONMENTAL ASSESSMENT ACTIVITIES

Numerous phases of environmental assessment have been conducted at the Property over the past 10 years, detecting contaminants including asbestos and lead-based paint in buildings, heavy metals, petroleum hydrocarbons, polychlorinated biphenyls (PCBs), petroleum hydrocarbons, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and/or dioxins/furans in soil and groundwater. In 2019, the Tribe signed a Prospective Purchaser Agreement (PPA) with the DEQ agreeing to complete assessment and cleanup actions at the Property in exchange for environmental liability protections. In line with PPA requirements, the Tribe must now conduct assessment and cleanup activities including: 1) high priority assessment and cleanup needed to contain known and suspected areas of contamination, prevent contamination from spreading via the Property's stormwater system and other preferential pathways, and prepare the on-Property office building for near-term use by the Tribe; and 2) additional areas where environmental data gaps must be assessed and where focused cleanup is needed to prepare the Site for reuse.



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1.3.1 2017 Geophysical Survey

On December 5, 2017, a geophysical survey was completed by GPR Data, Inc. to explore for evidence of underground storage tanks (USTs) and other underground structures at the 427 Main Street portion of the Property. Geophysical anomalies consistent with buried USTs were identified in two separate areas as indicated on **Figure 2**:

- Area 1: Adjacent to the former mill building (Building #16).
 - One possible UST, measured at a depth of 5.5 feet below ground surface (bgs) with dimensions of 5.5 feet by 4.5 feet.
- Area 2: Under concrete slab of the recently demolished Millwright Shop (Building #21).
 - Two possible USTs, measured at a depth of 2 feet bgs with dimensions of 4 feet by 11 feet; and
 - Two possible USTs, measured at a depth of 2 feet bgs with dimensions of 6 feet by 9 feet.

1.3.2 2018 Focused Subsurface Investigation Report

On December 12 and 14, 2017, four exploratory borings were advanced at the Property, one in Area 1 (GP07) and three in Area 2 (GP05, GP08, and GP10) by Maul, Foster, Alonghi (MFA, 2018). In Area 1, bedrock was encountered at a depth of 17.5 feet below ground surface (bgs). Subsurface materials encountered consisted of silty sand fill to a depth of 15 feet bgs underlain by gravelly sand fill. A petroleum-like odor was noted from 2-2.5 feet bgs.

In Area 2, bedrock was encountered at depths ranging from 8 to 14 feet bgs. Subsurface materials encountered were fill of a highly variable nature including silt, gravel, and woody debris. Evidence of the presence of petroleum in Area 2 borings included:

- GP05 – petroleum-like odor and sheen at 7.5 feet bgs;
- GP08 – petroleum-like odor from 5-9 feet bgs, with non-aqueous-phase liquid (NAPL) visible in fill materials in the interval 5.8 to 7 feet bgs;
- GP10 - petroleum-like odor and sheen from 5-12 feet bgs (no sample recovery below 12 feet bgs), with NAPL visible in fill materials in the interval 10 to 12 feet bgs.

Petroleum impacts were detected in soil samples obtained in both Area 1 and Area 2. A thin (0.05 foot) liquid-phase petroleum hydrocarbon layer was observed in boring GP08 (MFA, 2018). The groundwater sample from boring GP08 contained diesel-range organics (DRO), heavy-range oil (HRO), arsenic, and lead in concentrations that exceeded DEQ tap water RBCs. Boring GP10 also contained DRO.

A release was reported to the DEQ in Area 2 in March 2018 and assigned Leaking Underground Storage Tank (LUST) File 03-18-0364. Based on these prior assessment findings, it is anticipated that cleanup of soils present beneath the USTs likely will be necessary to protect human health and/or the environment.



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1.3.3 2023 Geophysical Survey and UST Assessment

Stantec completed an assessment of suspect USTs identified in the 2017 geophysical survey in January 2023. UST assessment activities were completed in accordance with SAP Revision 1. UST assessment findings were summarized in the March 30, 2023 *Tumwata Village – UST Assessment Phase 1 Activities and Findings* Report. Principal findings from the January 2023 assessment are summarized below.

Subsurface Mapping Survey

On January 10, 2023, Pacific Geophysics completed a subsurface mapping survey (SMS) in the suspect UST locations using a combination of magnetic surveys and ground penetrating radar (GPR). A single magnetic anomaly resembling a UST was identified in the Building 16 Area and four magnetic anomalies were identified in the Former Building 21 Area (photographs 1 and 2, **Appendix B**). The magnetic anomalies were additionally mapped with GPR, which appeared to confirm the presence of the USTs.

UST Daylighting

Following completion of the SMS, concrete overlying the two suspected UST locations was sawcut in preparation for daylighting activities. Concrete thickness in the Building 16 Area was approximately 1 foot. Concrete thickness in the Former Building 21 Area was approximately 8 inches.

Stantec and BB&A mobilized to the Property on January 17, 2023 to complete UST Assessment activities. An excavator operated by BB&A personnel was used to remove and stockpile concrete and soil overlying the suspected UST locations. Temporarily stockpiled materials were placed on plastic sheeting during the assessment activities. Following assessment, all excavated soil and concrete debris was returned to the excavations. In addition, the Former Building 21 Area was covered with plastic sheeting.

Building 16 Area: Results of the January 10, 2023 SMS indicated that the top of the suspected Building 16 Area UST was approximately 3 feet bgs; however, a test pit advanced to approximately 5 feet bgs in this location did not encounter an UST or evidence of a former UST in this location. Lithology of subsurface materials in the Building 16 Area consisted of gravelly fill material up to 4.5 feet bgs, underlain by poorly sorted fine sand to 5 feet bgs, the maximum depth explored during this assessment (photographs 3 and 4, **Appendix B**). False positive readings generated by the geophysical survey equipment may have been due to interference caused by: 1) the rebar reinforcement pattern in the concrete, and/or 2) several broken pieces of large-diameter metallic pipe present within the gravel fill at approximately 3 feet bgs.

Former Building 21 Area: The SMS initially indicated the presence of four USTs in the Former Building 21 Area (photograph 2, **Appendix B**); however, after removing concrete and soil overburden, two buried railroad tanker cars were found in the Former Building 21 Area (photographs 6 and 7, **Appendix B**). The rail cars were buried side-by-side and positioned in a north-northeast and south-southwest orientation. The western UST appeared almost full of liquid and the eastern UST appeared approximately half full of liquid – primarily water with minor quantities of a Bunker C-like oil (photographs 8 and 9, **Appendix B**). Based on UST dimensions, the western UST was estimated to contain approximately 12,400 gallons of liquids and the eastern UST was estimated to contain approximately 6,200 gallons of liquids.



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A concrete skirt was present across the top of both USTs at the mid-line of the tanks, and an approximate 16-inch diameter opening was present in the middle of each tank at the location of the concrete skirt (photograph 6, **Appendix B**). The majority of soil overlying the Former Building 21 Area USTs did not appear discolored and did not exhibit a petroleum odor in the field; however, black discolored soil exhibiting a petroleum-like odor was observed surrounding the opening in the middle of the western UST.

Sample Collection

One soil sample was collected from the terminal depth of the test pit advanced in the Building 16 Area at a depth of 5 feet bgs. The Building 16 Area soil sample was submitted to Apex Labs for analysis of:

- DRO and HRO; and
- Resource Conservation and Recovery Act (RCRA) metals¹.

Two overburden soil samples were collected from material overlying the USTs in the Former Building 21 Area, one sample of soils not exhibiting field indications of contamination (“Building 21 – overburden”) and one soil sample of the discolored soil observed surrounding the opening on the western UST (“Building 21 – impacted overburden”). The samples were submitted to Apex Labs for analysis of:

- Gasoline-Range Organics (GRO);
- DRO and HRO;
- VOCs;
- Polycyclic Aromatic Hydrocarbons (PAHs);
- PCBs; and/or
- Total cadmium, chromium, and lead.

In addition, one sample of the liquid contents of each of the Former Building 21 Area USTs was collected during the assessment. These two samples were submitted to Apex Labs for analysis of DRO and PCBs. Analytical results of the contents of the two Former Building 21 Area USTs will be used to generate a waste disposal profile prior to UST removal.

Laboratory Analytical Results

Analytical results for the three soil samples collected during the January 2023 UST assessment are summarized in **Tables 1** through **4**.

Analytical data for the soil sample collected from the Building 16 Area contained detectable concentrations of HRO and metals; however, all reported concentrations were below DEQ clean fill and potentially applicable risk-based concentration (RBC) screening values.

Overburden soil samples collected in the Former Building 21 Area indicated off-site disposal of soil at a Resource Conservation and Recovery Act (RCRA) Subtitle D (solid waste) landfill is necessary due to detected concentrations of GRO, lead, VOCs and/or PAHs above DEQ clean fill screening values. Toxicity Leaching Characteristic Procedure (TCLP) analysis of lead in both soil samples collected from the Former Building 21 Area did not indicate overburden soil is a characteristic hazardous waste.

¹ Eight RCRA Metals: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver



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Scope of Work

PAHs in the Former Building 21 Area exceed potentially applicable DEQ RBC screening values indicating that soil remediation may be necessary to protect human health and/or the environment in this area.

Samples collected from the UST contents contained concentrations of DRO of 40.8 micrograms per liter (µg/L) and 357,000 mg/kg for the water and product samples, respectively. HRO and PCBs were not detected in the UST content samples.

Conclusions from 2023 UST Assessment

Principal findings from the UST Assessment completed in January 2023 include the following:

- After limited excavation to approximately 5 feet bgs, no UST was identified in the Building 16 Area. Moreover, a soil sample collected from 5 feet bgs in this area did not indicate the presence of soil contamination requiring remedial action or special handling during Property redevelopment.
- A UST system consisting of two railroad tanker cars buried side-by side was identified in the Former Building 21 Area. No evidence of other UST system components (e.g. piping) was observed. The dimensions of each UST were 8 feet in diameter and 33 feet in length. Interior visual inspection indicated both USTs contained a mixture of primarily water and a small quantity of oil.
 - Total volume of liquids contained in both USTs is approximately 18,600 gallons. Liquid samples of the UST contents indicate their suitability for recycling.
 - Petroleum-impacted overburden soil was observed overlying the western UST. Concentrations of lead and PAHs in overburden soil samples indicate that: 1) any soil excavated from this area must be disposed off-site at a RCRA Subtitle D landfill; and 2) measures to mitigate risk of exposure to overburden soil in this area may be required to protect human health and/or the environment.

2.0 SCOPE OF WORK

2.1 OBJECTIVES

This SAP addendum provides a scope of work intended to achieve the following objectives.

1. Decommission by removal two rail car tanker USTs in the Former Building 21 Area identified in accordance with OAR 340-150-0168
2. Conduct soil cleanup in the immediate vicinity of the USTs. It is not CTGRs intention to conduct all soil cleanup related to the USTs necessary to protect human health and the environment at this time. More comprehensive soil cleanup will be performed in the future, if necessary, likely immediately prior to or during redevelopment.
3. Complete confirmation soil sampling from the UST removal/cleanup pit in accordance with DEQ published rules (OARs 340-150-0180 and 340-122-0205 through 340-122-0360) and guidance, and to the extent necessary to characterize the nature and concentration of contamination not being addressed at this time.



2.2 PRE-FIELDWORK ACTIVITIES

Prior to any intrusive work at the Property, Stantec and/or BB&A will request a public utility locate from the Utility Notification Center of the Former Building 21 UST Area.

Stantec will complete a hazard analysis specific to the field activities described herein and amend the project HASP if hazards not covered by the project HASP are identified, prior to mobilizing to the Property for any field activities. In addition, BB&A will prepare its own HASP for the project specific to UST removal/cleanup activities and collection of confirmation soil samples from the UST pit. While Stantec is responsible for communicating project hazards it is aware of to the UST Service Provider, BB&A is responsible for its own worker health and safety programs and protocols.

2.3 ARCHEOLOGICAL MONITORING

A Stantec archeologist will be present during all subsurface activities associated with this project. The archeologist will have stop work authority but is expected only to exercise this authority if human remains or archeological objects of substantial significance are discovered. An Inadvertent Discovery Plan detailing protocols to be followed should human remains or archeological objects of substantial significance be discovered is included with this SAP addendum as **Appendix C**.

2.4 UST DECOMMISSIONING BY REMOVAL AND SOIL CLEANUP

Stantec will subcontract with a DEQ-licensed UST Service Provider for removal of the USTs and any other UST system appurtenances, and limited soil cleanup, in accordance with the DEQ UST Cleanup Manual, the DEQ Risk-Based Decision Making (RBDM) for Petroleum-Contaminated Sites guidance document, and applicable OARs. Following contractor selection, and in advance of field activities, the following will be completed by the UST Service Provider.

- Prepare and submit to DEQ representative Mark Pugh via email a DEQ *General Permit Registration Form to Decommission Existing Unregistered Tanks*. Any registration fees that are due will be submitted to the DEQ business office.
- Preparation and submittal to DEQ representative Mark Pugh via email of a UST Decommissioning Checklist and Site Assessment Report to DEQ Northwest Region within 30 days of decommissioning.
- DEQ will be provided a verbal notification via telephone three days before starting decommissioning work.

During UST removal/cleanup, the following actions will occur.

- Excavate and either direct-load or stockpile soil on 6-millimeter visqueen sheeting as necessary to facilitate UST removal. All soil removed from the excavation will be transported off-site for disposal at a landfill.
- Given the nature of the product within the USTs (a non-volatile mixture of oil and water), it is considered likely that the interior atmosphere of the tanks does not pose an explosion risk. This will be confirmed through the use of a combustible gas indicator to screen the atmosphere within the USTs for explosive gases/vapors in accordance with Stantec's Safe Work Practice (SWP) 414 (Hot



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Scope of Work

Work). Once the absence of a potentially explosive environment is confirmed, BB&A plans to cut open the top of each UST lengthwise to allow access to the tank interiors. BB&A will continue to monitor the UST atmosphere using a combustible gas indicator while tank cutting is taking place.

- Once the tops of the USTs are removed, the UST service provider will pump out the liquid contents of the tanks utilizing a vacuum truck.
- Any residual solids within the USTs will be removed.
- After the tanks are emptied, the UST service provider will perform interior cleaning (triple-rinse) of the USTs.
- All wastes generated during the previous three steps will be hauled to an appropriate disposal facility based on waste characterization profiles generated using laboratory sample data collected during the January 2023 UST assessment activities as described in Section 1.3.3.
- Remove each UST and ancillary UST system components (if any). The UST(s) may be cut in half in-place to facilitate removal by an excavator.
- Transport each UST off-site for proper disposal/recycling.
- Determine, based upon field evidence, whether a UST release has occurred and whether limited over excavation of impacted soil beneath the USTs is warranted to protect human health and the environment. It is anticipated based on historical soil testing results proximal to the USTs that over excavation of soil beneath the USTs will occur. It is estimated that 4 feet of soil underlies the USTs and that basalt bedrock is present beneath the soil, and that all of this soil will be excavated and transported off-site at a landfill.
- Load, transport, and dispose of contaminated soil at disposal facility from which a permit was obtained using soil testing data from the January 2023 UST assessment.
- Contaminated soil beyond what must be excavated to facilitate UST removal is not planned, with the likely exception of soil between the base of the USTs and basalt bedrock. Once limited soil cleanup activities have been completed, soil samples will be collected as described in Section 2.4.1.
- In consultation with the CTGR, backfill the UST excavation in one-foot lifts with imported granular fill, compacted with a portable or excavator plate compactor.
- Restoration of surface asphalt/concrete is not planned, so imported granular fill will be placed flush with surrounding pavement.
- UST Decommissioning Checklist and Site Assessment Report will be submitted to DEQ representative Mark Pugh via email within 30 days after completion of the decommissioning.

2.4.1 UST Decommissioning Sampling and Analysis

Following removal of the USTs, associated system components (if any), and any limited remedial excavation activities (if any), confirmation soil sampling will be conducted in accordance with the DEQ *UST Cleanup Manual* and *Risk-Based Decision Making for the Remediation of Contaminated Sites* guidance document. CTGR does not intend to “chase” contamination sourced from the USTs at this time. Rather, soil cleanup will be limited to the immediate vicinity of the USTs. Soil sampling

Soil samples will be collected by the UST service provider or Stantec with a gloved-hand (new clean disposable Nitrile) within the excavator bucket (care will be taken to collect soil that has not contacted the surface of the bucket) or a decontaminated hand auger. Soil sampling will be completed in general accordance with QAPP standard operating procedures ES2.01, ES2.03, and ES6.02. No personnel will enter the excavation to complete soil sampling.



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Scope of Work

The type and number of environmental samples collected during the project will be in accordance with OAR 340-122-0218, as described below. It is anticipated that removal of both USTs from the Property will be accomplished by advancing one single UST excavation.

For the UST excavation, a minimum of eight soil samples will be collected, two soil samples from each excavation sidewall, both from the middle of the sidewall, one at 2 feet bgs, and one 1-foot above basalt bedrock. It is anticipated that the UST remedial excavation will extend to bedrock beneath the USTs, and therefore no soil samples will be collected from the base of the excavation. If evidence of contaminated soil is observed (soil staining, petroleum odors and/or elevated PID response), all areas exhibiting evidence of hydrocarbon contamination will also be sampled to characterize the nature and concentration of contamination being left in place. Stantec will contact the DEQ and discuss its observations regarding the presence/absence of apparent hydrocarbon contamination in excavation sidewalls, and the resultant soil sampling program based on its observations, prior to backfilling the excavation.

Soil samples will be collected beneath piping runs (if any) as follows:

- For piping runs between 5 and 20 feet, a minimum of two soil samples will be collected; and
- For piping runs of more than 20 feet in length, at least one additional soil sample will be collected at each 20-foot interval.

Analytical samples collected during assessment will be submitted to Apex Labs for analysis of one or more of the following:

- GRO by Method NWTPH-Gx;
- DRO and HRO by Method NWTPH-Dx;
- Volatile Petroleum Hydrocarbons (VPH);
- Extractable Petroleum Hydrocarbons (EPH);
- VOCs by EPA Method 5035 (field methanol extraction) and EPA Method 8260;
- PCBs by EPA Method 8082;
- Lead, cadmium, and chromium by EPA Method 6020; and/or
- PAHs by EPA Method 8270-SIM.

Sample container, preservation, and holding time requirements for each of these methods are provided in Table 3 of the project QAPP.

Stantec does not anticipate encountering groundwater within the UST excavation(s); however, if groundwater is encountered in the UST excavation, it will be purged and disposed of in accordance with applicable requirements. If the groundwater returns to the excavation within 24 hours, a grab groundwater sample will be collected and submitted for the same suite of analytical parameters determined appropriate for soil. If the presence of groundwater inhibits the collection of soil samples from the excavation base, soil sampling will be completed in accordance with OAR 340-122-340(4)(b)(A-C).



2.5 UST DEQ NOTIFICATION

In accordance with OAR 340-122-0220, Stantec will notify the CTGR and DEQ if any of the following occur:

- Groundwater is present in the excavation, whether it appears to be contaminated or not.
- Visual or olfactory observations indicate obvious areas of soil contamination in the excavation.
- Laboratory results identify detectable concentrations of any analyte in soil or groundwater.

2.6 QUALITY ASSURANCE/QUALITY CONTROL

All quality assurance/quality control (QA/QC) samples will be collected, handled, and submitted for analysis in accordance with the EPA-approved QAPP (Stantec 2021), as summarized below.

- One field duplicate will be collected for every 20 samples or less per sample matrix.
- Equipment blanks will be collected by pouring laboratory-prepared water or distilled water over or through reusable field sampling equipment and collecting the rinsate for laboratory analysis. One equipment blank will be submitted to the laboratory with investigative samples and analyzed for the same parameters as the investigative samples.
- Trip blanks will be submitted at the rate of one trip blank per environmental sample shipment for laboratory VOC analysis.
- Additional sample volume will be collected and submitted for laboratory matrix spike/matrix spike duplicate (MS/MSD) analysis. An MS/MSD sample will be collected for organic and inorganic analyses at a minimum frequency of one per 20 or fewer samples per matrix.

2.7 REPORTING

2.7.1 UST Decommissioning by Removal and/or Cleanup Reporting

If no evidence of a release is observed, and the minimum sampling is performed, all reporting will be completed by the UST Service Provider in the form of required DEQ checklists. The UST Service Provider report will describe all work completed. In addition to DEQ forms, the UST Service Provider will provide disposal documentation and analytical laboratory reports.

If evidence of a release is observed, soil cleanup is undertaken, and additional soil/groundwater confirmation samples are collected, Stantec will prepare a written UST closure report. The report will include, at a minimum, the following:

- A description of all soil/groundwater sampling activities;
- Figures illustrating remedial excavation configuration and sampling locations;
- Photographs taken during UST removal/cleanup activities including a photograph of each UST showing its physical condition at the time of its removal;
- Laboratory analytical reports, and if appropriate, data summary tables comparing soil/groundwater testing results to applicable DEQ screening values;
- Any deviations from procedures described in this SAP;



Site-Specific Sampling and Analysis Plan Addendum, Revision 1 – Underground Storage Tank Cleanup

Former Blue Heron Mill Site

Schedule

- Data analysis including recommendations for closure, and/or additional assessment/remediation activities; and
- Data validation memorandum.

3.0 SCHEDULE

Upon approval of this SAP addendum, Stantec will coordinate with the UST service provider to complete UST removal/cleanup activities. It is anticipated that UST removal/cleanup project will require up to five days to complete. Confirmation soil sample testing will require two weeks. The UST Service Provider will complete all required DEQ forms within a few days of receipt of laboratory testing data.

Should a UST closure report be prepared, it will be completed within approximately 4 weeks of receipt of laboratory testing data.



4.0 LIMITATIONS

This document was prepared by Stantec for the Confederated Tribes of the Grand Ronde. The material in it reflects Stantec's best judgment in light of the information available to it at the time of preparation. Any use which a third party makes of this SAP Addendum, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Stantec accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this SAP addendum.



Site-Specific Sampling and Analysis Plan Addendum, Revision 1 – Underground Storage Tank Cleanup

Former Blue Heron Mill Site

References

5.0 REFERENCES

Oregon Department of Environmental Quality, 2000. Cleanup Storage Tank Cleanup Manual. May 2009 Revision.

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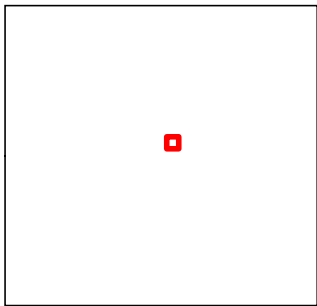
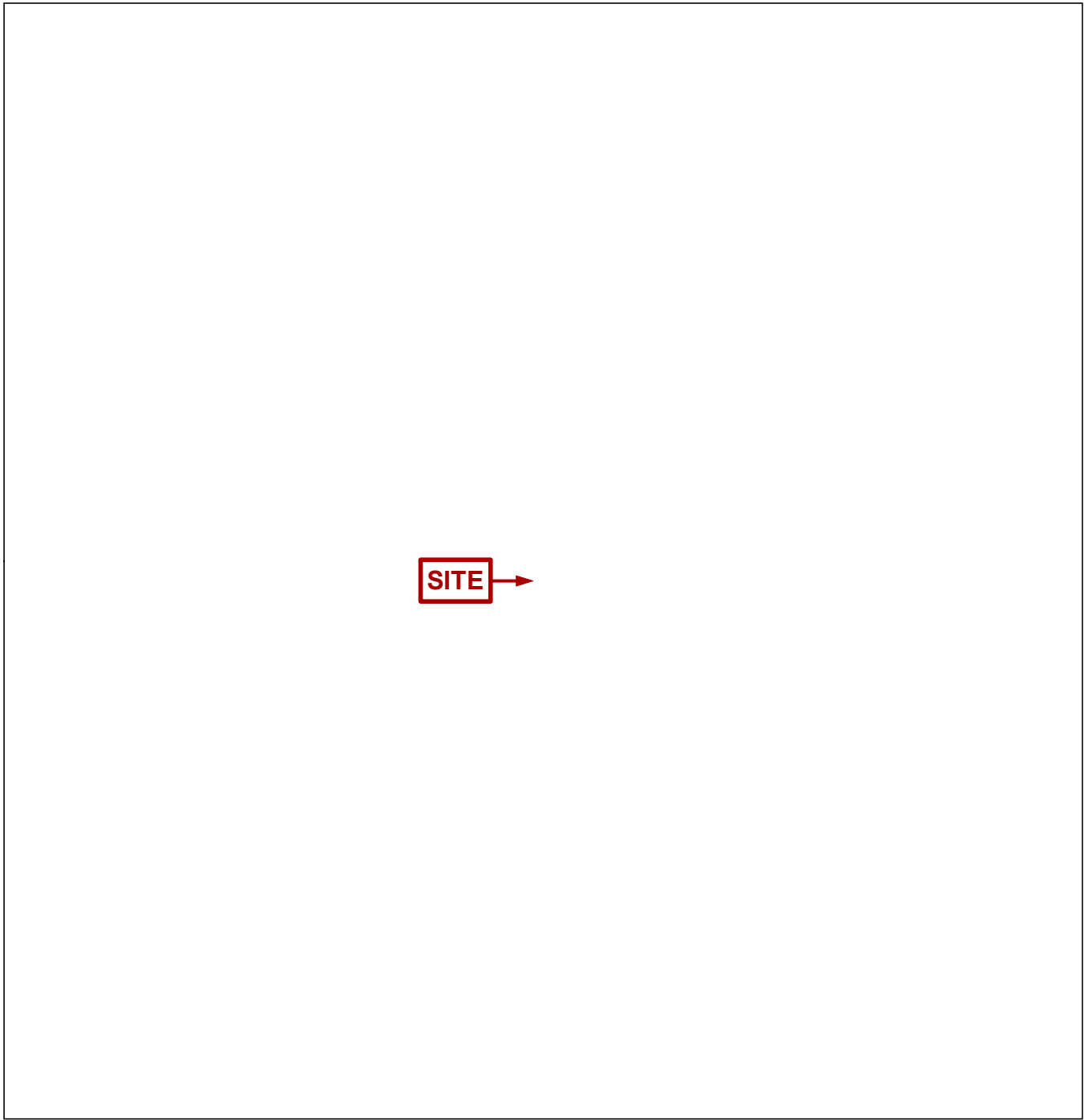
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FIGURES

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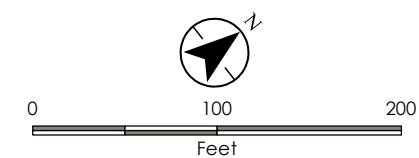
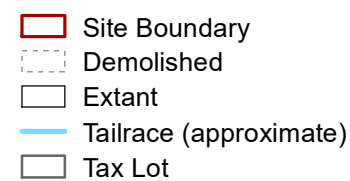
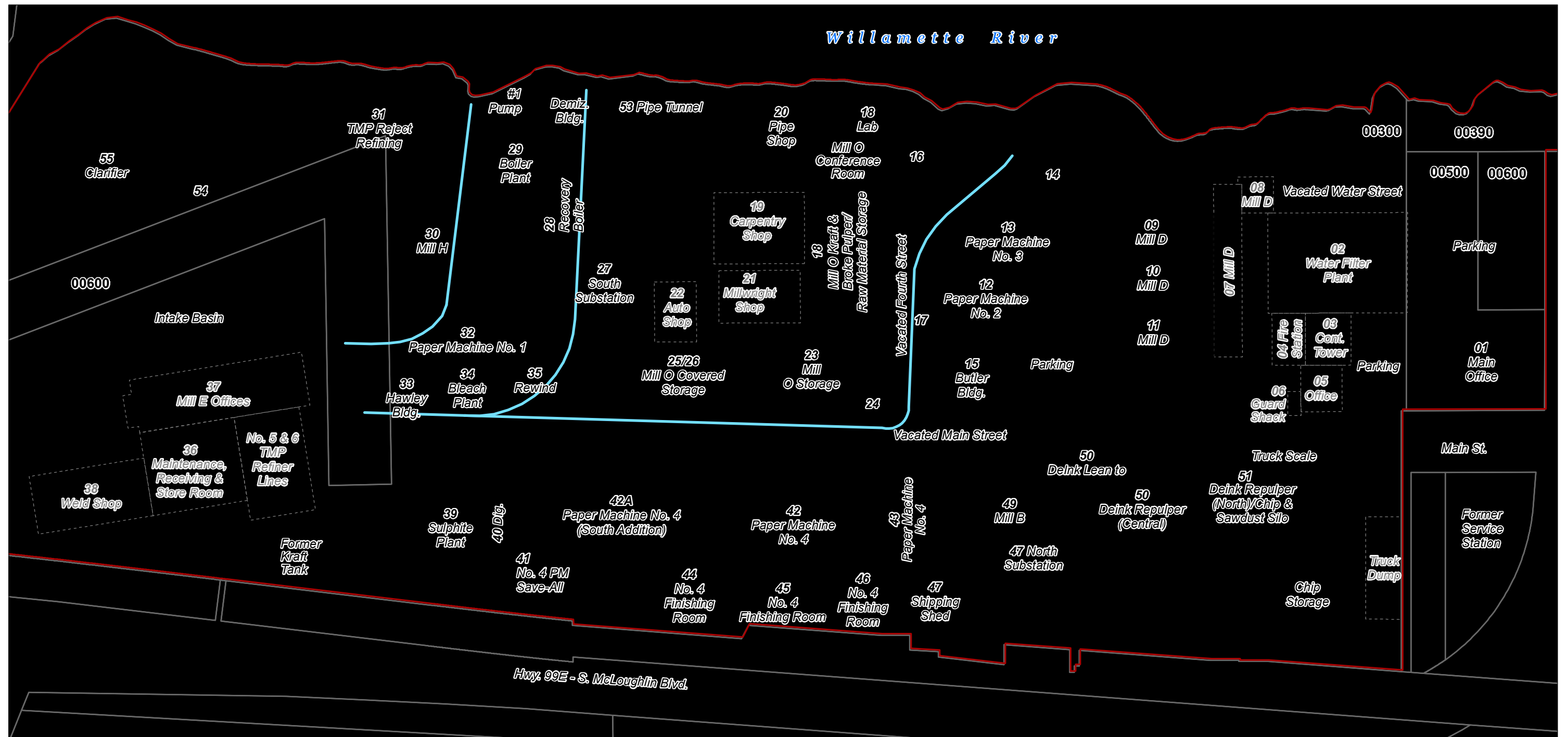


Project Location Prepared by PG on 2022-03-31
419 - 427 Main Street TR by LF on 2022-03-31
Oregon City, Oregon

Client/Project
Confederated Tribes of the Grand Ronde
Former Blue Heron Property
Sampling and Analysis Plan – UST Assessment

Figure 1

Title
Property Location



Project Location
Oregon City, Oregon

Prepared by PG on 2022-03-31
TR by LF on 2022-03-31

Client/Project
Confederated Tribes of the Grand Ronde
Former Blue Heron Property
Sampling and Analysis Plan – UST Assessment

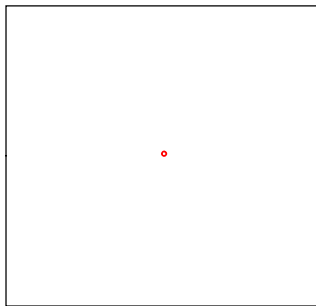
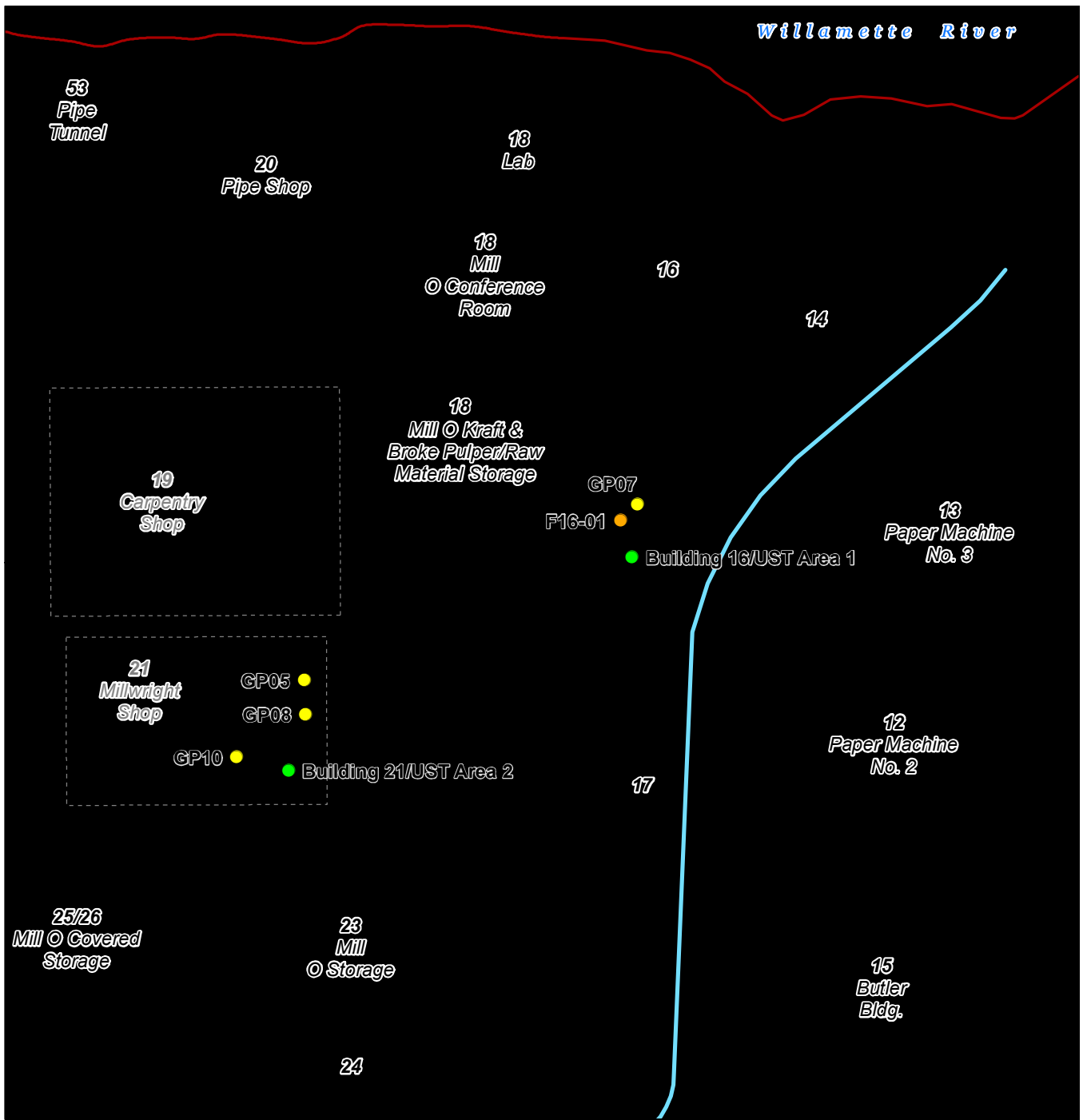
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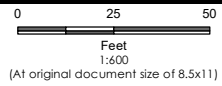
Title

Property Layout

V:\1857\Active\18570576903_data\gis\mxo\Fig3 ProjectArea.mxd Revised: 2022-05-13 By: paschmidt



- Site Boundary
- Demolished
- Extant
- UST Location
- 2012 Sample Location (ERM)
- 2017 Sample Location (MFA)
- Tailrace (approximate)

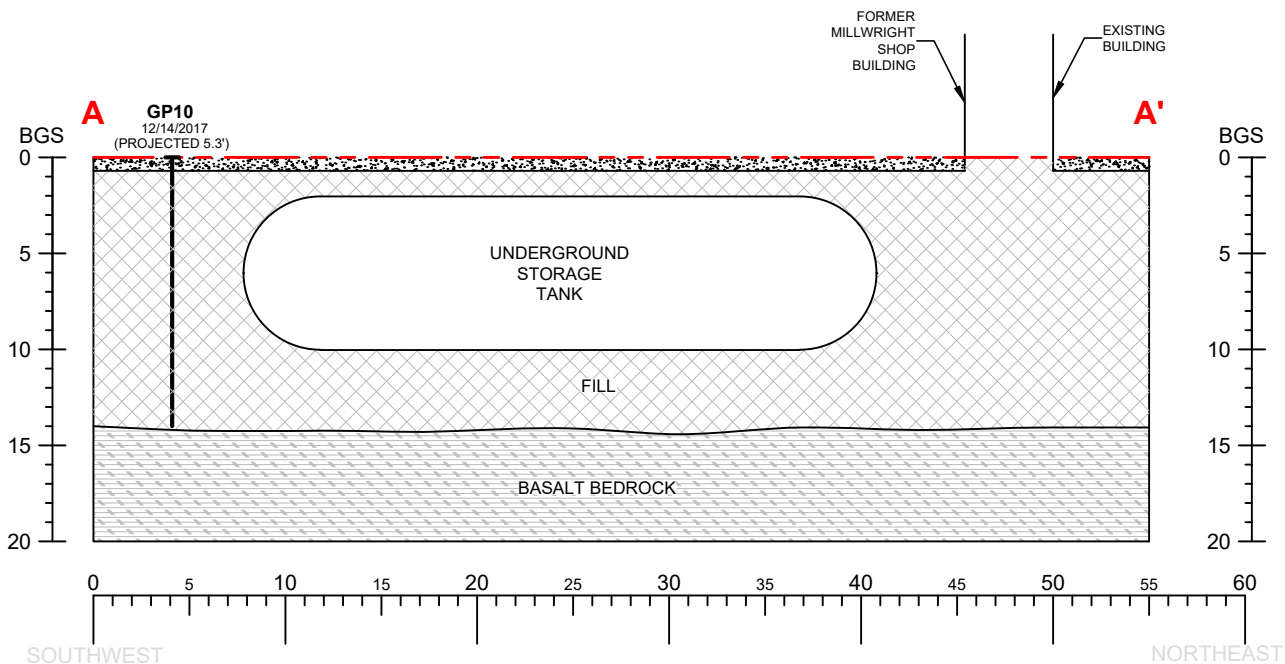


Project Location: 419 - 427 Main Street, Oregon City, Oregon. Prepared by PG on 2022-03-31, TR by LF on 2022-03-31.

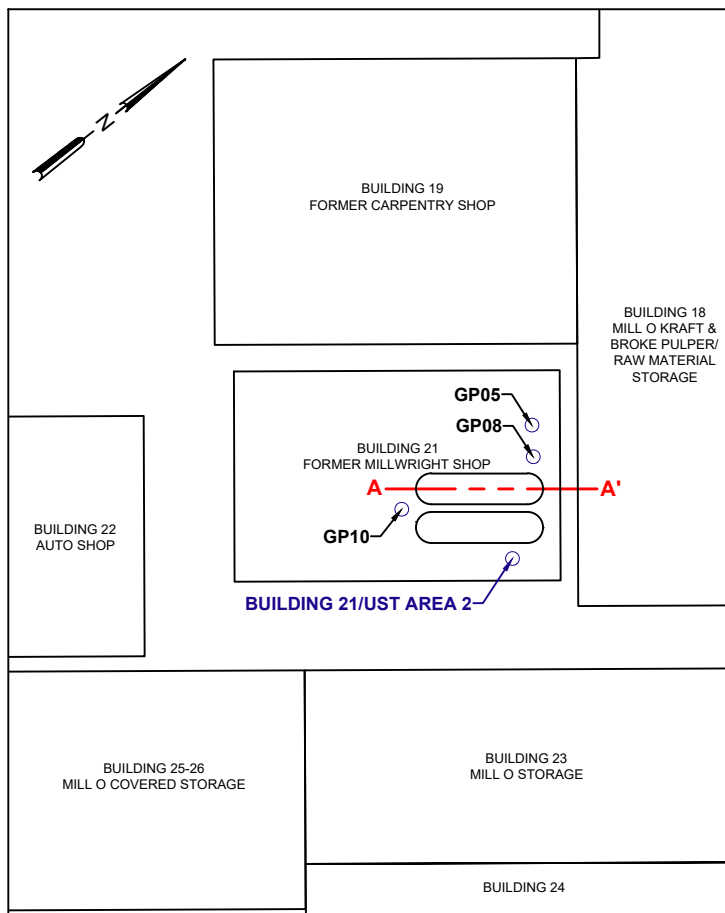
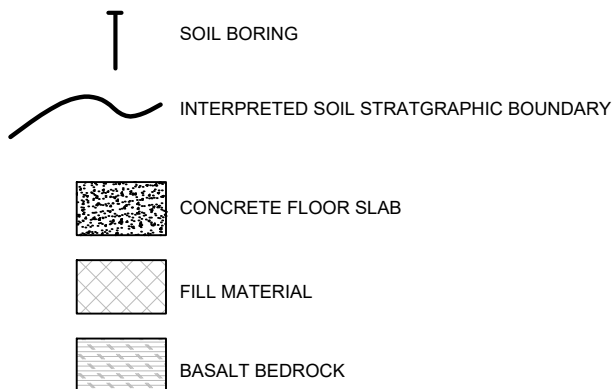
Client/Project: Confederated Tribes of the Grand Ronde, Former Blue Heron Property, Sampling and Analysis Plan - UST Assessment.

Figure 3
Project Area Layout

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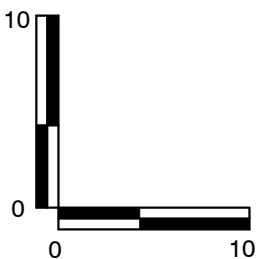
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CROSS-SECTION LOCATION MAP
SCALE: 1" = 50'

No warranty is made by Stantec as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

APPROXIMATE SCALE IN FEET



FOR:

FORMER BLUE HERON MILL PROPERTY
 419-427 MAIN STREET
 OREGON CITY, OREGON

CROSS-SECTION A-A'

FIGURE:

4

601 SW SECOND AVENUE, SUITE 1400
 PORTLAND, OR 97204-3128
 PHONE: 503-226-7377 FAX: 503-226-0023

JOB NUMBER:
 185705769

DRAWN BY:

CRJ

CHECKED BY:

BM

APPROVED BY:

LF

DATE:

03/29/2023

TABLES

TABLE 1
Soil Sample Analytical Results - Petroleum Hydrocarbons and Volatile Organic Compounds
Tumwater Village - UST Assessment Phase 1
427 Main Street, Oregon City, Oregon

Sample ID	Date Sampled	NWTPH-Gx (Gasoline)	NWTPH-Dx (Diesel)	NWTPH-Dx (Residual Oil)	1,2,4-Trimethylbenzene	O-Xylene	4-Isopropylbenzene	Naphthalene
Building 16 - 5'	1/17/2023	--	22.3 U	358 J+	--	--	--	--
Building 21 - Overburden	1/17/2023	6.03 U	443 U	1,520	0.0603 U	0.0301 U	0.0603 U	0.121 U
Building 21 - Impacted Overburden	1/17/2023	55.2	2,250 U	6,770	104	0.0468	0.066	0.884
Clean Fill Screening Value		31	1,100	NA	10	1	96	0.077
Urban Residential Direct Contract RBC		2,500	2,200	NA	860	2,900	7,000	25
Occupational Direct Contract RBC		20,000	14,000	NA	6,900	25,000	57,000	23
Construction Worker Direct Contact RBC		9,700	4,600	NA	2,900	20,000	27,000	580
Excavation Worker Direct Contact RBC		>Max	>Max	NA	81,000	560,000	750,000	16,000
Urban Residential Vapor Intrusion into Buildings RBC		94	>Max	NA	140	160	>Csat	15
Occupational Vapor Intrusion into Buildings RBC		>Max	>Max	NA	>Csat	>Csat	>Csat	83

Notes:

All results expressed as milligrams per kilogram

Volatile organic compound results not included in this table were non-detect for all samples analyzed

bold = indicates concentrations detected above method reporting limits

-- = Not analyzed

shaded gray = indicates concentration exceeds clean fill screening value

highlighted yellow = indicates concentration exceeds one or more potentially applicable RBCs

>Max = Substance is deemed not to pose a risk at any concentration

NA = Not Available, no screening value is listed for this analyte.

>Csat = This soil RBC exceeds the limit of three-phase partitioning. Soil concentrations in excess of Csat indicate that free product might be present.

J = The result is an estimated value; "+" indicates a potential high bias

U = Not detected, the associated value is the method detection limit

Clean Fill Screening Values, Oregon DEQ April 2019 revision

RBCs = Oregon DEQ Risk-Based Concentrations, May 2018 revision

TABLE 2
Soil Sample Analytical Results - Polycyclic Aromatic Hydrocarbons
Tumwater Village - UST Assessment Phase 1
427 Main Street, Oregon City, Oregon

Sample ID	Date Sampled	1-Methyl-naph-thalene	2-Methyl-naph-thalene	Anthra-cene	Acenaph-thene	Acenaph-thylene	Benzo[a]-anthra-cene	Benzo[a]-pyrene	Benzo[b]-fluoran-thene	Benzo [g,h,i]-perylene	Benzo[k]-fluoran-thene	Chrysene	Dibenz [a,h]-anthracene	Indeno[1,2,3-cd]-pyrene	Fluoran-thene	Fluorene	Naph-thalene	Dibenzo-furan	Phenan-threne	Pyrene	Benzo[a]-pyrene TEQ
Building 16 - 5"	1/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Building 21 - Overburden	1/17/2023	0.0821 J	0.113 J	0.723 J	0.222 J	0.509 J	2.01 J	3.05 J	3.39 J	2.50 J	1.16 J	3.36 J	0.360 J	2.51 J	5.59 J	0.247 J	0.354 J	0.762 J	4.83 J	6.41 J	4.2
Building 21 - Impacted Overburden	1/17/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Clean Fill Screening Value		NA	NA	6.8	0.25	120	0.73	0.11	1.1	NA	11	3.1	1.1	1.1	10	3.7	0.077	0.002	5.5	10	0.11
Urban Residential Direct Contact RBC		NA	NA	47,000	9,400	NA	2.5	0.25	2.5	NA	25	250	2.5	2.5	4,800	6,300	25	NA	NA	3,600	0.25
Occupational Direct Contact RBC		NA	NA	350,000	70,000	NA	21	2.1	21	NA	210	2,100	2.1	21	30,000	47,000	23	NA	NA	23,000	2.1
Construction Worker Direct Contact RBC		NA	NA	110,000	21,000	NA	170	17	170	NA	1,700	17,000	17	170	10,000	14,000	580	NA	NA	7,500	17
Excavation Worker Direct Contact RBC		NA	NA	>Max	590,000	NA	4,800	490	4,900	NA	49,000	490,000	490	4,900	280,000	390,000	16,000	NA	NA	210,000	490
Occupational Volatilization to Outdoor Air RBC		NA	NA	>Max	>Max	NA	NA	NA	NA	NA	NV	NA	NV	NV	NA	>Max	83	NA	NA	NA	NA
Occupational Vapor Intrusion into Buildings RBC		NA	NA	>Max	>Max	NA	NA	NA	NA	NA	NV	NA	NV	NV	NA	>Max	83	NA	NA	NA	NA
Occupational Leaching to Groundwater RBC		NA	NA	>S	>S	NA	>S	>S	>S	NA	>S	>S	>S	>S	>S	>S	0.34	NA	NA	>S	>S

Notes:

All results expressed as milligrams per kilogram

bold = indicates concentrations detected above method reporting limits

highlighted yellow = indicates concentration exceeds background and one or more potentially applicable RBCs

>Max = Substance is deemed not to pose a risk at any concentration

>S = This soil RBC exceeds the limit of three-phase partitioning. Soil concentrations in excess of Csat indicate that free product might be present.

NA = Not Available, no screening value is listed for this analyte.

TEQ = Toxic Equivalence Quotient

J = The result is an estimated value.

U = Not detected, the associated value is the method reporting limit

Clean Fill Screening Values, Oregon DEQ April 2019 revision

RBCs = Oregon DEQ Risk-Based Concentrations, May 2018 revision

TABLE 3
Soil Sample Analytical Results - Polychlorinated Biphenyls
Tumwater Village - UST Assessment Phase 1
427 Main Street, Oregon City, Oregon

Sample ID	Date Sampled	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
Building 16 - 5'	1/17/2023	--	--	--	--	--	--	--	--
Building 21 - Overburden	1/17/2023	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0117	0.0113 U	0.0117
Building 21 - Impacted Overburden	1/17/2023	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0113 U	0.0270	0.0113 U	0.0270
Clean Fill Screening Value		NA	NA	NA	NA	NA	NA	NA	0.23
Urban Residential Direct Contract RBC		NA	NA	NA	NA	NA	NA	NA	0.33
Occupational Direct Contract RBC		NA	NA	NA	NA	NA	NA	NA	0.59
Construction Worker Direct Contact RBC		NA	NA	NA	NA	NA	NA	NA	4.9
Excavation Worker Direct Contact RBC		NA	NA	NA	NA	NA	NA	NA	140

Notes:

All results expressed as milligrams per kilogram

Volatile organic compound results not included in this table were non-detect for all samples analyzed

bold = indicates concentrations detected above method reporting limits

-- = Not analyzed

highlighted yellow = indicates concentration exceeds one or more potentially applicable RBCs

>Max = Substance is deemed not to pose a risk at any concentration

NA = Not Available, no screening value is listed for this analyte.

>S = This soil RBC exceeds the limit of three-phase partitioning. Soil concentrations in excess of C_{sat} indicate that free product might be present.

J = The result is an estimated value; "-" indicates a potential low bias

U = Not detected, the associated value is the method detection limit

UJ = Not detected; the associated method detection limit is approximate

Clean Fill Screening Values, Oregon DEQ April 2019 revision

RBCs = Oregon DEQ Risk-Based Concentrations, May 2018 revision

TABLE 4
Soil Sample Analytical Results - Metals
Tumwater Village - UST Assessment Phase 1
427 Main Street, Oregon City, Oregon

Sample ID	Date Sampled	Arsenic	Barium	Cadmium	Chromium	Lead	TCLP Lead	Mercury	Selenium	Silver
Building 16 - 5'	1/17/2023	3.31	107	0.221 U	21.4	26.0	--	0.122	1.11 U	0.221 U
Building 21 - Overburden	1/17/2023	--	--	0.378	44.6	147	0.0670	--	--	--
Building 21 - Impacted Overburden	1/17/2023	--	--	1.36	78.7	309	0.122	--	--	--
Clean Fill/Background Screening Values		8.8	790	0.63	76	28	NA	0.23	0.71	0.82
Urban Residential Direct Contact RBC		1.0	31,000	160.0	230,000	400	NA	47.0	NA	780.0
Occupational Direct Contact RBC		1.9	220,000	1,100	>Max	800	NA	350	NA	5,800
Construction Worker Direct Contact RBC		15	69,000	350	530,000	800	NA	110	NA	1,800
Excavation Worker Direct Contact RBC		420	>Max	9,700	>Max	800	NA	2,900	NA	49,000
Occupational Volatilization to Outdoor Air RBC		NV	NV	NV	NV	NV	NA	NV	NA	NV
Occupational Vapor Intrusion into Buildings RBC		NV	NV	NV	NV	NV	NA	NV	NA	NV

Notes:

All results expressed as milligrams per kilogram

bold = indicates concentrations detected above method reporting limits

shaded gray = indicates concentration exceeds clean fill screening value

highlighted yellow = indicates concentration exceeds background and one or more potentially applicable RBCs

>Max = Substance is deemed not to pose a risk at any concentration

TCLP = Toxicity Characteristic Leaching Procedure

NA = Not Available, no screening value is listed for this analyte

NV = Indicates chemical is non-volatile

U = Not detected, the associated value is the method reporting limit

Clean Fill/Background Screening Values (South Willamette Valley), Oregon DEQ April 2019 revision

RBCs = Oregon DEQ Risk-Based Concentrations, May 2018 revision

APPENDIX A
DEQ April 2023 Screening
Criteria

RISK-BASED CONCENTRATIONS FOR INDIVIDUAL CHEMICALS (This table shows the lower of non-carcinogenic and carcinogenic RBCs and should be used for most screening purposes instead of the Excel version.)

Contaminated Medium		SOIL mg/Kg (ppm)										SOIL mg/Kg (ppm)					SOIL mg/Kg (ppm)					SOIL mg/Kg (ppm)					GROUNDWATER (µg/L (ppb))								
Exposure Pathway		Soil Ingestion, Dermal Contact, and Inhalation (RBC _{ss})										Volatilization to Outdoor Air (RBC _{so})					Vapor Intrusion into Buildings (RBC _{si}) No longer applicable Ø					Leaching to Groundwater (RBC _{sw})					Ingestion & Inhalation from Tapwater (RBC _{tw})								
Receptor Scenario		Residential		Urban Residential		Occupational		Construction Worker		Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		DC		DC		DC		DC		DC		IVS		IVS		IVS		IVS		IVS		IVS		IS		IS		IS		DS		DS		DS	
Contaminant	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Acenaphthene	nc, v	4,700	>Csat	9,400	>Csat	70,000	>Csat	21,000	>Csat	590,000	>Csat	-	>Max	-	>Max	-	>Max							-	>Csat	-	>Csat	-	>Csat	510		2,400		2,500	
Acrylonitrile	c, v	0.86		2.5		4.0		40		1,100		1.3		3.1		5.8								0.00036		0.0016		0.0017		0.052		0.23		0.25	
Aldrin	c, v	0.031		0.078		0.13		1.1		30	>Csat	-	>Csat	-	>Csat	-	>Csat							0.023		0.10		0.10		0.00092		0.0042		0.0042	
Anthracene	nc, v	23,000	>Csat	47,000	>Csat	350,000	>Csat	110,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Max							-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	>S
Arsenic	c, nv	0.43		1.0		1.9		15		420		-	NV	-	NV	-	NV							*		*		*		0.052		0.21		0.31	
Barium	nc, nv	15,000		31,000		220,000		69,000		-	>Max	-	NV	-	NV	-	NV							*		*		*		4,000		15,000		33,000	
Benzo[a]anthracene	c, nv	1.1		2.5		21	>Csat	170	>Csat	4,800	>Csat	-	>Csat	-	>Csat	-	>Csat							1.6		6.0		-	>Csat	0.030		0.11		0.38	
Benzene	c, v	8.2		24		37		380		11,000	>Csat	11		27		50								0.023		0.10		0.10		0.46		2.0		2.1	
Benzdine	c, nv	0.00052		0.0012		0.01		0.082		2.3		-	NV	-	NV	-	NV							0.000038		0.00012		0.0007		0.00011		0.00034		0.00190	
Benzo[a]pyrene (BaP equivalents) **	c*, nv	0.11		0.25		2.1		17	>Csat	490	>Csat	-	NV	-	NV	-	NV							4.4		-	>Csat	-	>Csat	0.025		0.080		0.47	
Benzo[b]fluoranthene	c, v	1.1		2.5		21	>Csat	170	>Csat	4,900	>Csat	-	NV	-	NV	-	NV							-	>Csat	-	>Csat	-	>Csat	0.25		0.80		-	>S
Benzo[k]fluoranthene	c, nv	11	>Csat	25	>Csat	210	>Csat	1,700	>Csat	49,000	>Csat	-	NV	-	NV	-	NV							-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	>S
Beryllium	c*, nv	160		310		2,300		700		19,000		-	NV	-	NV	-	NV							*		*		*		40		150		330	
Bis(2-ethylhexyl)phthalate	c, nv	39		97		160	>Csat	1,300	>Csat	37,000	>Csat	-	NV	-	NV	-	NV							-	>Csat	-	>Csat	-	>Csat	5.6		22		33	
Bromodichloromethane	c, v	3.4		12		15		230		6,300	>Csat	2.4		5.7		11								0.0020		0.0091		0.0088		0.13		0.62		0.6	
Bromoform	c, v	57		170		260		2,700	>Csat	74,000	>Csat	81		190		360								0.046		0.20		0.22		3.3		15		16	
Bromomethane	nc, v	46		92		750		370		10,000	>Csat	170		170		700								0.083		0.30		0.40		7.5		28		36	
Cadmium	c*, nv	78		160		1,100		350		9,700		-	NV	-	NV	-	NV							*		*		*		20		73		160	
Carbon tetrachloride	c, v	7.5		21		34		320		8,900	>Csat	15		35		65								0.013		0.055		0.058		0.46		2.0		2.1	
Chlorobenzene	nc, v	530		1,100	>Csat	8,700	>Csat	4,700	>Csat	130,000	>Csat	-	>Csat	-	>Csat	-	>Csat							5.8		22		27		77		290		350	
Chlorodibromomethane (dibromochloromethane)	c, v	3.7		12		17		210		5,800	>Csat	3.3		7.8		14								0.0024		0.011		0.011		0.17		0.77		0.77	
Chloroethane (ethyl chloride)	nc, v	160,000	>Csat	320,000	>Csat	-	>Max	-	>Max	-	>Max	-	>Csat	-	>Csat	-	>Csat							310		1,100		1,300		21,000		76,000		88,000	
Chloroform	c, v	5.8		22		26		410		11,000	>Csat	3.9		9.2		17								0.0034		0.016		0.015		0.22		1.0		0.98	
Chloromethane	nc, v	1,400	>Csat	2,900	>Csat	25,000	>Csat	25,000	>Csat	700,000	>Csat	-	>Csat	-	>Csat	-	>Csat							2.2		7.9		9.1		190		690		790	
Chlordane	c, v	1.7		4.2		7.4		61	>Csat	1,700	>Csat	-	>Csat	-	>Csat	-	>Csat							0.45		2.1		2.1		0.045		0.20		0.21	
Chromium (III)	nc, nv	120,000		230,000		-	>Max	530,000		-	>Max	-	NV	-	NV	-	NV							*		*		*		30,000		110,000		250,000	
Chromium (VI)	c, nv	0.30		0.67		6.3		49		1,400		-	NV	-	NV	-	NV							*		*		*		0.05		0.16		0.90	
Chrysene	c, nv	110	>Csat	250	>Csat	2,100	>Csat	17,000	>Csat	490,000	>Csat	-	NV	-	NV	-	NV							-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	>S
Copper	nc, nv	3,100		6,200		47,000		14,000		390,000		-	NV	-	NV	-	NV							*		*		*		800		2,900		6,500	
Cyanide (hydrogen cyanide) ^	nc, v	47		94		700		210		5,900		-	NV	-	NV	-	NV							*		*		*		12		44		98	
DDD (4,4'-Dichlorodiphenyldichloroethane)	c*, nv	2.2		4.4		12		9.7		270		-	NV	-	NV	-	NV							1.1		3.7		2.6		0.031		0.10		0.074	
DDE (4,4'-Dichlorodiphenyldichloroethene)	c, v	1.8		4.5		8.2		66		1,800		-	>Csat	-	>Csat	-	>Csat							1.6		7.4		7.5		0.046		0.21		0.21	
DDT (4,4'-Dichlorodiphenyltrichloroethane)	c, nv	1.9		4.6		8.5		66		1,800		-	NV	-	NV	-	NV							12		46		70		0.23		0.92		1.4	
Dibenz[a,h]anthracene	c, nv	0.11		0.25		2.1		17	>Csat	490	>Csat	-	NV	-	NV	-	NV							-	>Csat	-	>Csat	-	>Csat	0.025		0.080		0.47	
1,2-Dichlorobenzene	nc, v	2,200	>Csat	4,400	>Csat	36,000	>Csat	20,000	>Csat	560,000	>Csat	-	>Csat	-	>Csat	-	>Csat																		



Contaminated Medium		SOIL mg/Kg (ppm)										SOIL mg/Kg (ppm)					SOIL mg/Kg (ppm)					SOIL mg/Kg (ppm)						GROUNDWATER (µg/L (ppb))							
Exposure Pathway		Soil Ingestion, Dermal Contact, and Inhalation (RBC _{ss})										Volatilization to Outdoor Air (RBC _{so})					Vapor Intrusion into Buildings (RBC _{si}) No longer applicable Ø					Leaching to Groundwater (RBC _{sw})						Ingestion & Inhalation from Tapwater (RBC _{tw})							
Receptor Scenario		Residential		Urban Residential		Occupational		Construction Worker		Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		DC		DC		DC		DC		DC		IVS		IVS		IVS		IVS		IVS		IVS		IS		IS		IS		DS		DS		DS	
Contaminant	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Dioxane, 1,4-	c, v	5.4		14		24		210		5,900		28		67		370								0.0023		0.0099		0.012		0.46		2.0		2.4	
Diphenylnitrosamine	c, nv	110		280	>Csat	470	>Csat	3,800	>Csat	110,000	>Csat	-	NV	-	NV	-	NV							10		39		45		13		49		57	
EDB (1,2-dibromoethane)	c, v	0.16		0.53		0.73		9.0		250		0.15		0.35		0.65								0.00012		0.00056		0.00056		0.0075		0.034		0.034	
EDC (1,2-dichloroethane)	c, v	3.6		12		16		200		5,600	>Csat	3.4		8.1		15								0.0028		0.013		0.013		0.17		0.78		0.78	
Endosulfan, (alpha-beta)	nc, v	380	>Csat	760	>Csat	4,900	>Csat	1,600	>Csat	45,000	>Csat	-	>Max	-	>Max	-	>Max							-	>Csat	-	>Csat	-	>Csat	98		-	>S	-	>S
Endrin	nc, nv	19	>Csat	38	>Csat	250	>Csat	80	>Csat	2,200	>Csat	-	NV	-	NV	-	NV							11		-	>Csat	-	>Csat	1.9		9.5		8.6	
Ethylbenzene	c, v	34		110		150		1,700	>Csat	49,000	>Csat	36		85		160								0.22		0.94		0.90		1.5		6.7		6.4	
Fluoranthene	nc, nv	2,400	>Csat	4,800	>Csat	30,000	>Csat	10,000	>Csat	280,000	>Csat	-	NV	-	NV	-	NV							-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	>S
Fluorene	nc, v	3,100	>Csat	6,300	>Csat	47,000	>Csat	14,000	>Csat	390,000	>Csat	-	>Max	-	>Max	-	>Max							-	>Csat	-	>Csat	-	>Csat	280		1,400		1,300	
Formaldehyde	c*, v	15		69		64		1,600		44,000	>Csat	48		110		630								0.0020		0.0093		0.0086		0.43		2.0		1.0	
Heptachlor	c, v	0.11		0.28		0.45		4.0		110		18		42		230								0.017		0.063		0.048		0.0014		0.0051		0.0039	
Heptachlor Epoxide	c, v	0.055		0.14		0.24		2.0		56		28		66		-	>Csat							0.0042		0.018		0.016		0.0014		0.0059		0.0053	
Hexachlorobenzene	c, v	0.21		0.67		0.93		11		320		1.0		2.4		13								0.018		0.083		0.084		0.0098		0.045		0.045	
Hexachlorocyclohexane, alpha- (alpha-HCH)	c, nv	0.086		0.21		0.36		3.0		83	>Csat	-	NV	-	NV	-	NV							0.0063		0.024		0.023		0.0075		0.028		0.027	
Hexachlorocyclohexane, gamma- (Lindane)	c, nv	0.49		1.2		2.1		17		470	>Csat	-	NV	-	NV	-	NV							0.036		0.13		0.13		0.043		0.16		0.16	
Hexachloroethane	c*, v	7.4		24		32		180		5,100	>Csat	8.1		19		36								0.022		0.095		0.087		0.34		1.5		1.3	
Indeno[1,2,3-cd]pyrene	c, nv	1.1	>Csat	2.5	>Csat	21	>Csat	170	>Csat	4,900	>Csat	-	NV	-	NV	-	NV							-	>Csat	-	>Csat	-	>Csat	-	>S	-	>S	-	>S
Lead	nc, nv	400	L	400	L	800	L	800	L	800	L	L	NV	-	NV	-	NV							30	L	30	L	30	L	15	L	15	L	15	L
Manganese	nc, nv	1,800		3,600		25,000		8,200		230,000		-	NV	-	NV	-	NV							*		*		*		480		1,800		3,900	
MCPA ((4-chloro-2-methylphenoxy)acetic acid)	nc, nv	32		63		410	>Csat	130		3,700	>Csat	-	NV	-	NV	-	NV							0.097		0.40		0.61		7.4		30		47	
Mercury	nc, nv	23		47		350		110		2,900		-	NV	-	NV	-	NV							*		*		*		6.0		22		49	
MTBE (methyl t-butyl ether)	c, v	250		730		1,100	>Csat	12,000	>Csat	320,000	>Csat	340		810		1,500								0.11		0.50		0.54		14		64		68	
Naphthalene	c, v	5.3		25		23		580		16,000	>Csat	6.4		15		83								0.077		0.37		0.34		0.17		0.78		0.72	
Nickel	c*, nv	1,500		3,100		22,000		7,000		190,000		-	NV	-	NV	-	NV							*		*		*		400		1,500		3,300	
Pentachlorophenol	c, nv	1.0		2.6		4.0		34		960		-	NV	-	NV	-	NV							0.066		0.23		0.17		0.044		0.15		0.12	
Polychlorinated biphenyls (Total PCBs)**	c*, v	0.23		0.33		0.59		4.9	>Csat	140	>Csat	-	>Csat	-	>Csat	-	>Csat							0.24		1.1		1.1		0.006		0.028		0.028	
iso-Propylbenzene (cumene)	nc, v	3,500	>Csat	7,000	>Csat	57,000	>Csat	27,000	>Csat	750,000	>Csat	-	>Csat	-	>Csat	-	>Csat							96		-	>Csat	-	>Csat	440		1,800		2,000	
Pyrene	nc, v	1,800	>Csat	3,600	>Csat	23,000	>Csat	7,500	>Csat	210,000	>Csat	-	>Max	-	>Max	-	>Max							-	>Csat	-	>Csat	-	>Csat	110	>S	-	>S	-	>S
Silver	nc, nv	390		780		5,800		1,800		49,000		-	NV	-	NV	-	NV							*		*		*		100		370		820	
Styrene	nc, v	7,900	>Csat	16,000	>Csat	130,000	>Csat	56,000	>Csat	-	>Max	-	>Csat	-	>Csat	-	>Csat							170		640		800		1,200		4,600		5,700	
2,3,7,8-TCDD (dioxin) equivalents **	c, v	0.0000047		0.000012		0.000016		0.00017		0.0048		0.010		0.024		0.13								6.8E-06		0.000031		0.000031		0.00000091		0.00000042		0.00000042	
Tetrachloroethene (PCE)	c*, v	220	>Csat	540	>Csat	1,000	>Csat	1,800	>Csat	50,000	>Csat	-	>Csat	-	>Csat	-	>Csat							0.46		1.9		1.9		12		49		48	
Toluene	nc, v	5,800	>Csat	12,000	>Csat	88,000	>Csat	28,000	>Csat	770,000	>Csat	-	>Csat	-	>Csat	-	>Csat							84		340		490		1,100		4,400		6,300	
Toxaphene	c, nv	0.49</																																	

Contaminated Medium		GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))		Soil Gas (µg/m³)						AIR (µg/m³)					
Exposure Pathway		Volatilization to Outdoor Air (RBC _{wo})						Vapor Intrusion into Buildings (RBC _{wi}) Use EPA VISLs 0						GW in Excavation (RBC _{we})		Vapor Intrusion into Buildings (RBC _{sv}) Use EPA VISLs 0						INHALATION (RBC _{air})					
Receptor Scenario		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Construction & Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		IVW		IVW		IVW		IVW		IVW		IVW		DS		ICA		ICA		ICA		DCA		DCA		DCA	
Contaminant	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Acenaphthene	nc, v	-	>S	-	>S	-	>S							-	>S							-	>Pv	-	>Pv	-	>Pv
Acrylonitrile	c, v	2,200		5,300		9,800								250								0.041		0.098		0.18	
Aldrin	c, v	-	>S	-	>S	-	>S							3.5								0.00057		0.0014		0.0025	
Anthracene	nc, v	-	>S	-	>S	-	>S							-	>S							-	>Pv	-	>Pv	-	>Pv
Arsenic	c, nv	-	NV	-	NV	-	NV							6,300								0.00065		0.0015		0.0029	
Barium	nc, nv	-	NV	-	NV	-	NV							-	>S							0.52		0.52		2.2	
Benz[a]anthracene	c, v	-	>S	-	>S	-	>S							-	>S							0.017		0.033		0.20	
Benzene	c, v	3,100		7,400		14,000								1,800								0.36		0.85		1.6	
Benzidine	c, nv	-	NV	-	NV	-	NV							17								0.000015		0.000029		0.00018	
Benzo[a]pyrene (BaP equivalents) **	c*, nv	-	NV	-	NV	-	NV							-	>S							0.0017		0.0021		0.0088	
Benzo[b]fluoranthene	c, nv	-	NV	-	NV	-	NV							-	>S							0.017		0.033		0.20	
Benzo[k]fluoranthene	c, nv	-	NV	-	NV	-	NV							-	>S							-	>Pv	-	>Pv	-	>Pv
Beryllium	c*, nv	-	NV	-	NV	-	NV							270,000								0.0012		0.0028		0.0051	
Bis(2-ethylhexyl)phthalate	c, nv	-	NV	-	NV	-	NV							-	>S							-	>Pv	-	>Pv	-	>Pv
Bromodichloromethane	c, v	1,400		3,200		6,000								450								0.076		0.18		0.33	
Bromoform	c, v	130,000		300,000		550,000								14,000								2.6		6.0		11	
Bromomethane	nc, v	32,000		32,000		130,000								1,200								5.2		5.2		22	
Cadmium	c*, nv	-	NV	-	NV	-	NV							130,000								0.0016		0.0037		0.0068	
Carbon tetrachloride	c, v	1,800		4,200		7,700								1,800								0.47		1.1		2.0	
Chlorobenzene	nc, v	-	>S	-	>S	-	>S							10,000								52		52		220	
Chlorodibromomethane (dibromochloromethane)	c, v	3,900		9,300		17,000								610								0.10		0.25		0.45	
Chloroethane (ethyl chloride)	nc, v	-	>S	-	>S	-	>S							2,400,000								10000		10000		44000	
Chloroform	c, v	1,400		3,400		6,300								720								0.12		0.29		0.53	
Chloromethane	nc, v	440,000		440,000		1,800,000								22,000								94		94		390	
Chlordane	c, v	-	>S	-	>S	-	>S							-	>S							0.028		0.066		0.12	
Chromium (III)	nc, nv	-	NV	-	NV	-	NV							-	>S							-	>Pv	-	>Pv	-	>Pv
Chromium (VI)	c, nv	-	NV	-	NV	-	NV							9,400								0.000012		0.000023		0.00015	
Chrysene	c, nv	-	NV	-	NV	-	NV							-	>S							1.7		3.3		-	>Pv
Copper	nc, nv	-	NV	-	NV	-	NV							5,400,000								-	>Pv	-	>Pv	-	>Pv
Cyanide (hydrogen cyanide) ^	nc, v	-	NV	-	NV	-	NV							81,000								0.83		0.83		3.5	
DDD (4,4'-Dichlorodiphenyldichloroethane)	c*, nv	-	NV	-	NV	-	NV							3.2								0.041		0.096		0.18	
DDE (4,4'-Dichlorodiphenyldichloroethene)	c, v	-	>S	-	>S	-	>S							-	>S							0.029		0.068		0.13	
DDT (4,4'-Dichlorodiphenyltrichloroethane)	c, nv	-	NV	-	NV	-	NV							-	>S							0.029		0.068		0.13	
Dibenz[a,h]anthracene	c, nv	-	NV	-	NV	-	NV							-	>S							-	>Pv	-	>Pv	-	>Pv
1,2-Dichlorobenzene	nc, v	-	>S	-	>S	-	>S							37,000								210		210		880	
1,4-Dichlorobenzene	c, v	4,900		12,000		21,000								1,500								0.26		0.6		1.1	
3,3-Dichlorobenzidine	c, nv	-	NV	-	NV	-	NV							-	>S							0.0083		0.020		0.036	
1,1-Dichloroethane	c, v	16,000		37,000		68,000								10,000								1.8		4.1		7.7	
1,1-Dichloroethene	c, v	570,000		570,000		2,400,000								44,000								210		210		880	
cis-1,2-Dichloroethene	nc, v	-	>S	-	>S	-	>S							18,000								-	>Pv	-	>Pv	-	>Pv
trans-1,2-Dichloroethene	nc, v	-	>S	-	>S	-	>S							180,000								-	>Pv	-	>Pv	-	>Pv
Dichloroethylether	c, v	5,700		13,000		30,000								51								0.0085		0.02		0.037	
Dichloromethane	c, v	1,000,000	>S	2,000,000	>S	1.3E+07	>S							79,000								100		190		1200	
Dichlorophenoxyacetic acid, 2,4- (2,4-D)	nc, nv	-	NV	-	NV	-	NV							77,000								-	>Pv	-	>Pv	-	>Pv
Dieldrin	c, v	-	NV	-	NV	-	NV							2.4								0.00061		0.0014		0.0027	
Dinitrotoluene, 2,6-	nc, nv	-	NV	-	NV	-	NV							830								-	>Pv	-	>Pv	-	>Pv
Di-N-propylnitrosamine (N-nitroso-di-N-propylamine)	c, nv	-	NV	-	NV	-	NV							370								0.0014		0.0033		0.0061	
Dioxane, 1,4-	c, nv	820,000		1,900,000		4,500,000								3,400								0.56		1.3		2.5	
Diphenylnitrosamine	c, nv	-	NV	-	NV	-	NV							-	>S							1.1		2.6		4.7	
EDB (1,2-dibromoethane)	c, v	180		430		790								27								0.0047		0.011		0.020	
EDC (1,2-dichloroethane)	c, v	2,100		4,900		9,000								630								0.11		0.26		0.47	
Endosulfan, (alpha-beta)	nc, v	-	>S	-	>S	-	>S							-	>S							-	>Pv	-	>Pv	-	>Pv
Endrin	nc, nv	-	NV	-	NV	-	NV							170								-	>Pv	-	>Pv	-	>Pv

Contaminated Medium		GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))						GROUNDWATER (µg/L (ppb))		Soil Gas (µg/m³)						AIR (µg/m³)					
Exposure Pathway		Volatilization to Outdoor Air (RBC _{wo})						Vapor Intrusion into Buildings (RBC _{wi}) Use EPA VISLs δ						GW in Excavation (RBC _{we})		Vapor Intrusion into Buildings (RBC _{sv}) Use EPA VISLs δ						INHALATION (RBC _{air})					
Receptor Scenario		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational		Construction & Excavation Worker		Residential		Urban Residential		Occupational		Residential		Urban Residential		Occupational	
Direct or Indirect Pathway (see notes)		IVW		IVW		IVW		IVW		IVW		IVW		DS		ICA		ICA		ICA		DCA		DCA		DCA	
Contaminant	Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note		Note
Ethylbenzene	c, v	9,900	>S	23,000	>S	43,000	>S							4,500								1.1		2.7		4.9	
Fluoranthene	nc, nv	-	NV	-	NV	-	NV							-	>S							-	>Pv	-	>Pv	-	>Pv
Fluorene	nc, v	-	>S	-	>S	-	>S							-	>S							-	>Pv	-	>Pv	-	>Pv
Formaldehyde	c*, nv	1,500,000		3,700,000		8,500,000								1,300								0.22		0.51		0.94	
Heptachlor	c, v	-	>S	-	>S	-	>S							1.8								0.0022		0.0051		0.0094	
Heptachlor Epoxide	c, v	-	>S	-	>S	-	>S							3.2								0.0011		0.0026		0.0047	
Hexachlorobenzene	c, v	-	>S	-	>S	-	>S							-	>S							0.0061		0.014		0.027	
Hexachlorocyclohexane, alpha- (alpha-HCH)	c, nv	-	NV	-	NV	-	NV							18	>S							0.0016		0.0037		0.0068	
Hexachlorocyclohexane, gamma- (Lindane)	c, nv	-	NV	-	NV	-	NV							100								0.0091		0.021		0.040	
Hexachloroethane	c*, v	5,000		12,000		22,000								700								0.26		0.60		1.1	
Indeno[1,2,3-cd]pyrene	c, nv	-	NV	-	NV	-	NV							-	>S							-	>Pv	-	>Pv	-	>Pv
Lead	nc, nv	-	NV	-	NV	-	NV							-	>S							-	>Pv	-	>Pv	-	>Pv
Manganese	nc, nv	-	NV	-	NV	-	NV							3,200,000								0.052		0.052		0.22	
MCPA ((4-chloro-2-methylphenoxy)acetic acid)	nc, nv	-	NV	-	NV	-	NV							1,700								-	>Pv	-	>Pv	-	>Pv
Mercury	nc, nv	-	NV	-	NV	-	NV							-	>S							0.31		0.31		1.3	
MTBE (methyl t-butyl ether)	c, v	350,000		830,000		1,500,000								63,000								11		26		47	
Naphthalene	c, v	3,600		8,500		16,000	>S							500								0.083		0.20		0.36	
Nickel	c*, nv	-	NV	-	NV	-	NV							-	>S							0.011		0.026		0.047	
Pentachlorophenol	c, nv	-	NV	-	NV	-	NV							53								0.55		1.3		2.4	
Polychlorinated biphenyls (Total PCBs) **	c*, v	-	>S	-	>S	-	>S							30								0.0038		0.0090		0.017	
iso-Propylbenzene (cumene)	nc, v	-	>S	-	>S	-	>S							51,000								420		420		1800	
Pyrene	nc, v	-	>S	-	>S	-	>S							-	>S							-	>Pv	-	>Pv	-	>Pv
Silver	nc, nv	-	NV	-	NV	-	NV							1,100,000								-		-		-	
Styrene	nc, v	-	>S	-	>S	-	>S							170,000								1000		1000		4400	
2,3,7,8-TCDD (dioxin) equivalents **	c, v	0.022		0.052		0.11								0.00045								5.6E-8		1.3E-7		2.5E-7	
Tetrachloroethene (PCE)	c*, v	64,000		150,000		-	>S							5,600								11		26		47	
Toluene	nc, v	-	>S	-	>S	-	>S							220,000								5200		5200		22000	
Toxaphene	c, nv	-	NV	-	NV	-	NV							18								0.0088		0.021		0.038	
Trichloro-1,2,2-trifluoroethane, 1,1,2- (Freon 113)	nc, v	-	>S	-	>S	-	>S							-	>S							31000		31000		130000	
Trichloroethane, 1,1,1-	nc, v	-	>S	-	>S	-	>S							1,100,000								5200		5200		22000	
Trichloroethane, 1,1,2-	c*, v	4,700		5,600		21,000								49								0.18		0.21		0.77	
Trichloroethene	c*, v	3,300		6,900		20,000								430								0.47		1.0		2.9	
Trichlorofluoromethane (Freon 11)	nc, v	780,000		780,000		-	>S							160,000								730		730		3,100	
Trichlorophenol, 2,4,6-	c*, nv	-	NV	-	NV	-	NV							1,700								0.91		2.1		4.0	
Trimethylbenzene, 1,2,4-	nc, v	-	>S	-	>S	-	>S							6,300								63		63		260	
Trimethylbenzene, 1,3,5-	nc, v	-	>S	-	>S	-	>S							7,500								63		63		260	
Vinyl chloride	c, v	350		430		5,900								960								0.17		0.20		2.8	
Xylenes	nc, v	-	>S	-	>S	-	>S							23,000								100		100		440	
Generic Gasoline	nc, v	>S		>S		>S								14,000								390		390		1,700	
Generic Diesel/Heating Oil	nc, v	>S		>S		>S								>S								100		100		440	
Generic Mineral/Insulating Oil	nc, nv	>S		>S		>S								>S								150		150		620	

NOTES:

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

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

c This chemical is a known or suspected carcinogen. The RBCs in this row were calculated using equations for carcinogens.

c* The RBCs in this row were calculated using equations for both carcinogens and noncarcinogens (where lower). For some scenarios the RBCs based on non-carcinogenic effects are lower than RBCs based on cancer effects for these chemicals. You should use the lower of the calculated RBCs for each exposure scenario, as shown in this table.

>Csat This soil RBC exceeds the limit of three-phase equilibrium partitioning. Refer to "ChemData" page for the corresponding value of Csat. Soil concentrations in excess of Csat indicate that free product might be present. See Section B.2.1.4 for additional information.

L The values for lead reported in this table are not calculated. See Section B.3.4 for the source of the lead numbers and information on applying them.

>Max The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.



NA	Not Available.
nc	This chemical is a noncarcinogen. The RBCs in this row were calculated using equations for noncarcinogens. When carcinogenic RBCs can be calculated and the noncancer RBC is lower, (nc) is shown in the notes.
nv	This chemical is considered "nonvolatile" for purposes of the exposure calculations. A chemical is defined as nonvolatile if the Henry's law constant is less than 1 x 10 ⁻⁵ atm/m ³ -mole and vapor pressure less than one mm mercury.
>Pv	The air concentration reported for the RBC exceeds the vapor pressure of the pure chemical. It can be assumed that this constituent cannot create an unacceptable risk by this pathway. See Section B.2.1.4 for additional information.
>S	This groundwater RBC exceeds the solubility limit. Refer to Appendix D for the corresponding value of S. Groundwater concentrations in excess of S indicate that free product may be present. See Section B.2.1.4 for additional information.
v	This chemical is classified as "volatile" for purposes of the exposure calculations in this document. A chemical is defined as volatile if the Henry's law constant is greater than or equal to 1 x 10 ⁻⁵ atm/m ³ -mole or vapor pressure greater than or equal to one mm mercury.
*	Leaching-to-Groundwater RBCs are not provided for inorganic chemicals. If this pathway is of concern, then site-specific leaching tests must be performed.
**	Compounds in this category are considered in aggregate as a chemical class and should be evaluated as single substances. See notes to accompany Risk-Based Concentrations for Individual Chemicals, November 1, 2015.
-	When "Show All Values" is not selected on the Main Menu, all RBC values for indirect pathways that exceed a limit (Csat, S, or Pv) are removed from the table and replaced with "-". If you suspect that a chemical may be present at high concentrations on airborne dust rather than vapor, the vapor pressure limit does not apply, so use the RBCair value.
Ø	DEQ no longer screens vapor intrusion risks based on soil data.
ô	DEQ recommends using EPA vapor intrusion screening levels (VISL) for screening vapor intrusion risk from groundwater and soil vapor.

Table 1. Chronic and Acute Vapor Intrusion Risk-Based Concentrations

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Acenaphthene	83-32-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Acephate	30560-19-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Acetaldehyde	75-07-0	1.3	43	710	5.6	190	3,100	470	16,000	260,000	1,400	47,000	780,000
Acetochlor	34256-82-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Acetone	67-64-1	NITI	NITI	NITI	NITI	NITI	NITI	62,000	2,100,000	NC	190,000	6,300,000	NC
Acetone Cyanohydrin	75-86-5	2.1	NV	NV	8.8	NV	NV	--	--	--	--	--	--
Acetonitrile	75-05-8	63	2100	77,000	260	8,800	320,000	--	--	--	--	--	--
Acetophenone	98-86-2	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Acetylaminofluorene, 2-	53-96-3	0.0022	NV	NV	0.0094	NV	NV	--	--	--	--	--	--
Acrolein	107-02-8	0.021	0.7	6.9	0.088	2.9	29	7	230	2,300	21	700	6,900
Acrylamide	79-06-1	0.01	NV	NV	0.12	NV	NV	--	--	--	--	--	--
Acrylic Acid	79-10-7	0.21	7	35,000	0.88	29	150,000	6,000	200,000	1,000,000,000	18,000	600,000	3,100,000,000
Acrylonitrile	107-13-1	0.041	1.4	13	0.18	6	58	220	7,300	70,000	660	22,000	210,000
Adiponitrile	111-69-3	6.3	NV	NV	26	NV	NV	--	--	--	--	--	--
Alachlor	15972-60-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Aldicarb	116-06-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Aldicarb Sulfone	1646-88-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Aldrin	309-00-2	0.00057	0.019	8.1	0.0025	0.083	35	--	--	--	--	--	--
Allyl Alcohol	107-18-6	0.1	3.5	1,100	0.44	15	4,700	--	--	--	--	--	--
Allyl Chloride	107-05-1	0.47	16	1.7	2	68	8	--	--	--	--	--	--
Aluminum	7429-90-5	5.2	NV	NV	22	NV	NV	--	--	--	--	--	--
Aluminum Phosphide	20859-73-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ametryn	834-12-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Aminobiphenyl, 4-	92-67-1	0.00047	NV	NV	0.002	NV	NV	--	--	--	--	--	--
Aminophenol, m-	591-27-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Aminophenol, o-	95-55-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Aminophenol, p-	123-30-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Amitraz	33089-61-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ammonia	7664-41-7	520	17,000	1,100,000	2200	73,000	4,600,000	1,200	40,000	2,500,000	3,600	120,000	7,500,000
Ammonium Perchlorate	7790-98-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ammonium Picrate	131-74-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ammonium Sulfamate	7773-06-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ammonium perfluoro-2-methyl-3-oxahexanoate	62037-80-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ammonium perfluorobutanoate	10495-86-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ammonium perfluorohexanoate	21615-47-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Amyl Alcohol, tert-	75-85-4	3.1	100	12,000	13	440	51,000	--	--	--	--	--	--
Aniline	62-53-3	1	NV	NV	4.4	NV	NV	--	--	--	--	--	--
Anthracene	120-12-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Anthraquinone, 9,10-	84-65-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Antimony (metallic)	7440-36-0	0.31	NV	NV	1.3	NV	NV	1	NV	NV	3	NV	NV
Antimony Pentoxide	1314-60-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Antimony Potassium Tartrate	11071-15-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Antimony Tetroxide	1332-81-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Antimony Trichloride	10025-91-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Antimony Trioxide	1309-64-4	0.21	NV	NV	0.88	NV	NV	--	--	--	--	--	--
Aroclor 1016	12674-11-2	0.14	4.7	17	0.61	20	75	--	--	--	--	--	--
Aroclor 1221	11104-28-2	0.0049	0.16	0.53	0.022	0.72	2.3	--	--	--	--	--	--
Aroclor 1232	11141-16-5	0.0049	0.16	0.16	0.022	0.72	0.71	--	--	--	--	--	--
Aroclor 1242	53469-21-9	0.0049	0.16	1.3	0.022	0.72	5.8	--	--	--	--	--	--
Aroclor 1248	12672-29-6	0.0049	0.16	0.27	0.022	0.72	1.2	--	--	--	--	--	--
Aroclor 1254	11097-69-1	0.0049	0.16	1.7	0.022	0.72	7.2	--	--	--	--	--	--
Aroclor 1260	11096-82-5	0.0049	0.16	0.36	0.022	0.72	1.6	--	--	--	--	--	--
Aroclor 5460	11126-42-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Arsenic, Inorganic	7440-38-2	0.00065	NV	NV	0.0029	NV	NV	0.2	NV	NV	0.6	NV	NV
Arsine	7784-42-1	0.052	NV	NV	0.22	NV	NV	0.2	NV	NV	0.6	NV	NV
Asulam	3337-71-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Atrazine	1912-24-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Auramine	492-80-8	0.011	NV	NV	0.049	NV	NV	--	--	--	--	--	--
Avermectin B1	65195-55-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Azinphos-methyl	86-50-0	10	NV	NV	44	NV	NV	--	--	--	--	--	--
Azobenzene	103-33-3	0.091	3	500	0.4	13	2,200	--	--	--	--	--	--
Azodicarbonamide	123-77-3	0.0073	NV	NV	0.031	NV	NV	--	--	--	--	--	--
Barium	7440-39-3	0.52	NV	NV	2.2	NV	NV	--	--	--	--	--	--
Benfluralin	1861-40-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Benomyl	17804-35-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Bensulfuron-methyl	83055-99-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Bentazon	25057-89-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Benz[a]anthracene	56-55-3	0.017	0.56	190	0.2	6.8	2,300	--	--	--	--	--	--
Benzaldehyde	100-52-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Benzene	71-43-2	0.36	12	2.8	1.6	52	12	29	970	230	87	2,900	650
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Benzenethiol	108-98-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Benzidine	92-87-5	0.000015	NV	NV	0.00018	NV	NV	--	--	--	--	--	--
Benzo(e)pyrene	192-97-2	0.0021	NV	NV	0.0088	NV	NV	--	--	--	--	--	--
Benzo(j)fluoranthene	205-82-3	0.026	NV	NV	0.11	NV	NV	--	--	--	--	--	--
Benzo[a]pyrene	50-32-8	0.0017	NV	NV	0.0088	NV	NV	0.002	NV	NV	0.006	NV	NV
Benzo[b]fluoranthene	205-99-2	0.017	NV	NV	0.2	NV	NV	--	--	--	--	--	--
Benzo[k]fluoranthene	207-08-9	0.17	NV	NV	2	NV	NV	--	--	--	--	--	--
Benzoic Acid	65-85-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Benzotrichloride	98-07-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Benzyl Alcohol	100-51-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Benzyl Chloride	100-44-7	0.057	1.9	7.2	0.25	8.3	31	240	8,000	30,000	720	24,000	89,000
Beryllium and compounds	7440-41-7	0.0012	NV	NV	0.0051	NV	NV	0.02	NV	NV	0.06	NV	NV
Bifenox	42576-02-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Biphen thrin	82657-04-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Biphenyl, 1,1'-	92-52-4	0.42	14	91	1.8	58	380	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Bis(2-chloro-1-methylethyl) ether	108-60-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Bis(2-chloroethoxy)methane	111-91-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Bis(2-chloroethyl)ether	111-44-4	0.0085	0.28	32	0.037	1.2	140	120	4,000	450,000	360	12,000	1,400,000
Bis(2-ethylhexyl)phthalate	117-81-7	1.2	NV	NV	5.1	NV	NV	--	--	--	--	--	--
Bis(chloromethyl)ether	542-88-1	0.000045	0.0015	0.0005	0.0002	0.0066	0.0022	1.4	47	16	4.2	140	46
Bisphenol A	80-05-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Boron And Borates Only	7440-42-8	21	NV	NV	88	NV	NV	--	--	--	--	--	--
Boron Trichloride	10294-34-5	21	700	NV	88	2,900	NV	--	--	--	--	--	--
Boron Trifluoride	7637-07-2	14	450	NV	57	1,900	NV	--	--	--	--	--	--
Bromate	15541-45-4	0.02	NV	NV	0.088	NV	NV	--	--	--	--	--	--
Bromo-2-chloroethane, 1-	107-04-0	0.063	2.1	4	0.26	9	15	--	--	--	--	--	--
Bromo-3-fluorobenzene, 1-	1073-06-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Bromo-4-fluorobenzene, 1-	460-00-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Bromoacetic acid	79-08-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Bromobenzene	108-86-1	63	2100	1,500	260	8,800	6,300	--	--	--	--	--	--
Bromochloromethane	74-97-5	42	1400	1,200	180	5,800	5,000	--	--	--	--	--	--
Bromodichloromethane	75-27-4	0.076	2.5	1.6	0.33	11	6.9	--	--	--	--	--	--
Bromoform	75-25-2	2.6	85	250	11	370	1,100	--	--	--	--	--	--
Bromomethane	74-83-9	5.2	170	25	22	730	110	3,900	130,000	19,000	12,000	400,000	60,000
Bromophos	2104-96-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Bromopropane, 1-	106-94-5	0.76	25	4.3	3.3	110	19	1,700	57,000	9,600	5,100	170,000	29,000
Bromoxynil	1689-84-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Bromoxynil Octanoate	1689-99-2	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Butadiene, 1,3-	106-99-0	0.094	3.1	0.044	0.41	14	0.19	660	22,000	310	2,000	67,000	930
Butanoic acid, 4-(2,4-dichlorophenoxy)-	94-82-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Butanol, N-	71-36-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Butyl Alcohol, t-	75-65-0	5200	170,000	30,000,000	22000	730,000	130,000,000	--	--	--	--	--	--
Butyl Benzyl Phthalate	85-68-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Butyl Formate, tert-	762-75-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Butyl alcohol, sec-	78-92-2	31000	1,000,000	190,000,000	130000	4,400,000	800,000,000	--	--	--	--	--	--
Butylate	2008-41-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Butylated hydroxyanisole	25013-16-5	49	NV	NV	220	NV	NV	--	--	--	--	--	--
Butylated hydroxytoluene	128-37-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Butylbenzene, n-	104-51-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Butylbenzene, sec-	135-98-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Butylbenzene, tert-	98-06-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Butylphthalyl Butylglycolate	85-70-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Cacodylic Acid	75-60-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Cadmium (Diet)	7440-43-9	0.0016	NV	NV	0.0068	NV	NV	0.03	NV	NV	0.09	NV	NV
Cadmium (Water)	7440-43-9	0.0016	NV	NV	0.0068	NV	NV	0.03	NV	NV	0.09	NV	NV
Calcium Cyanide	592-01-8	9.4	NV	NV	39	NV	NV	--	--	--	--	--	--
Calcium hydroxide phosphate	12167-74-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Calcium pyrophosphate	7790-76-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Caprolactam	105-60-2	2.3	NV	NV	9.6	NV	NV	50	NV	NV	150	NV	NV

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Captafol	2425-06-1	0.065	NV	NV	0.29	NV	NV	--	--	--	--	--	--
Captan	133-06-2	4.3	NV	NV	19	NV	NV	--	--	--	--	--	--
Carbaryl	63-25-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Carbofuran	1563-66-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Carbon Disulfide	75-15-0	730	24,000	1,900	3100	100,000	8,200	6,200	210,000	16,000	19,000	630,000	50,000
Carbon Tetrachloride	56-23-5	0.47	16	0.71	2	68	3.1	1,900	63,000	2,900	5,700	190,000	8,800
Carbonyl Sulfide	463-58-1	100	3,500	4	440	15,000	17	660	22,000	26	2,000	67,000	77
Carbosulfan	55285-14-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Carboxin	5234-68-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ceric oxide	1306-38-3	0.94	NV	NV	3.9	NV	NV	--	--	--	--	--	--
Chloral	75-87-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chloral Hydrate	302-17-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chloramben	133-90-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chloranil	118-75-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlordane (alpha)	5103-71-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chlordane (gamma)	5103-74-2	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chlordane (technical mixture)	12789-03-6	0.028	0.94	150	0.12	4.1	670	0.2	6.7	1100	0.6	20	3,400
Chlordecone (Kepone)	143-50-0	0.00061	NV	NV	0.0027	NV	NV	--	--	--	--	--	--
Chlorfenvinphos	470-90-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorimuron, Ethyl-	90982-32-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorine	7782-50-5	0.15	5	0.42	0.64	21	1.8	170	5700	480	510	17,000	1,400
Chlorine Dioxide	10049-04-4	0.21	7	0.21	0.88	29	0.87	2.8	93	2.8	8.4	280	8.3
Chlorite (Sodium Salt)	7758-19-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chloro-1,1-difluoroethane, 1-	75-68-3	52000	1,700,000	860,000	220000	7,300,000	3,600,000	--	--	--	--	--	--
Chloro-1,3-butadiene, 2- (Chloroprene)	126-99-8	0.0094	0.31	0.0075	0.041	1.4	0.033	--	--	--	--	--	--
Chloro-2-methylaniline HCl, 4-	3165-93-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chloro-2-methylaniline, 4-	95-69-2	0.037	NV	NV	0.16	NV	NV	--	--	--	--	--	--
Chloroacetaldehyde, 2-	107-20-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chloroacetic Acid	79-11-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chloroacetophenone, 2-	532-27-4	0.031	NV	NV	0.13	NV	NV	--	--	--	--	--	--
Chloroaniline, p-	106-47-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorobenzene	108-90-7	52	1700	810	220	7,300	3,400	--	--	--	--	--	--
Chlorobenzene sulfonic acid, p-	98-66-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorobenzilate	510-15-6	0.091	NV	NV	0.4	NV	NV	--	--	--	--	--	--
Chlorobenzoic Acid, p-	74-11-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorobenzotrifluoride, 3-nitro-4-	121-17-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chlorobenzotrifluoride, 4-	98-56-6	0.33	11	0.49	1.4	48	2.1	--	--	--	--	--	--
Chlorobutane, 1-	109-69-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chlorodifluoromethane	75-45-6	52,000	1,700,000	41,000	220000	7,300,000	170,000	--	--	--	--	--	--
Chloroethanol, 2-	107-07-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chloroform	67-66-3	0.12	4.1	1.4	0.53	18	5.9	490	16,000	5,700	1,500	50,000	17,000
Chloromethane	74-87-3	94	3100	350	390	13,000	1,500	1,000	33,000	3,700	3,000	100,000	12,000
Chloromethyl Methyl Ether	107-30-2	0.0041	0.14	0.54	0.018	0.59	2.3	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Chloronaphthalene, Beta-	91-58-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chloronitrobenzene, o-	88-73-3	0.01	NV	NV	0.044	NV	NV	--	--	--	--	--	--
Chloronitrobenzene, p-	100-00-5	2.1	NV	NV	8.8	NV	NV	--	--	--	--	--	--
Chlorophenol, 2-	95-57-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chlorophenol, 4-	106-48-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chloropicrin	76-06-2	0.42	14	9.4	1.8	58	40	29	970	650	87	2,900	1,900
Chlorothalonil	1897-45-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorotoluene, o-	95-49-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chlorotoluene, p-	106-43-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Chlorozotocin	54749-90-5	0.000041	NV	NV	0.00018	NV	NV	--	--	--	--	--	--
Chlorpropham	101-21-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorpyrifos	2921-88-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorpyrifos Methyl	5598-13-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorsulfuron	64902-72-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorthal-dimethyl	1861-32-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chlorthiophos	60238-56-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chromium(III), Insoluble Salts	16065-83-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Chromium(VI)	18540-29-9	0.000012	NV	NV	0.00015	NV	NV	0.3	NV	NV	0.9	NV	NV
Chrysene	218-01-9	1.7	NV	NV	20	NV	NV	--	--	--	--	--	--
Clofentezine	74115-24-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Cobalt	7440-48-4	0.00031	NV	NV	0.0014	NV	NV	--	--	--	--	--	--
Coke Oven Emissions	NA	0.0016	NV	NV	0.02	NV	NV	--	--	--	--	--	--
Copper	7440-50-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	100	NV	NV	300	NV	NV
Copper Cyanide	544-92-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Cresol, m-	108-39-4	630	NV	NV	2600	NV	NV	--	--	--	--	--	--
Cresol, o-	95-48-7	630	NV	NV	2600	NV	NV	--	--	--	--	--	--
Cresol, p-	106-44-5	630	NV	NV	2600	NV	NV	--	--	--	--	--	--
Cresol, p-chloro-m-	59-50-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Cresols	1319-77-3	630	NV	NV	2600	NV	NV	--	--	--	--	--	--
Crotonaldehyde, trans-	123-73-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Cumene	98-82-8	420	14000	2,200	1800	58,000	9,100	--	--	--	--	--	--
Cupferron	135-20-6	0.045	NV	NV	0.2	NV	NV	--	--	--	--	--	--
Cyanazine	21725-46-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Cyanide (CN-)	57-12-5	0.83	28	200	3.5	120	840	--	--	--	--	--	--
Cyanogen	460-19-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Cyanogen Bromide	506-68-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Cyanogen Chloride	506-77-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Cyclohexane	110-82-7	6,300	210,000	1,800	26000	880,000	7,400	--	--	--	--	--	--
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Cyclohexanone	108-94-1	730	24,000	4,900,000	3100	100,000	21,000,000	--	--	--	--	--	--
Cyclohexene	110-83-8	1,000	35,000	980	4400	150,000	4,100	--	--	--	--	--	--
Cyclohexylamine	108-91-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Cyclopentadiene	542-92-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Cyfluthrin	68359-37-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Cyhalothrin	68085-85-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Cyromazine	66215-27-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
DDD, p,p`- (DDD)	72-54-8	0.041	NV	NV	0.18	NV	NV	--	--	--	--	--	--
DDE, p,p'-	72-55-9	0.029	0.97	70	0.13	4.2	310	--	--	--	--	--	--
DDT	50-29-3	0.029	NV	NV	0.13	NV	NV	--	--	--	--	--	--
Dalapon	75-99-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Daminozide	1596-84-5	0.55	NV	NV	2.4	NV	NV	--	--	--	--	--	--
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Decane	124-18-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Demeton	8065-48-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Di(2-ethylhexyl)adipate	103-23-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diallate	2303-16-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diammonium phosphate	7783-28-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diazinon	333-41-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	10	NV	NV	30	NV	NV
Dibenz[a,h]anthracene	53-70-3	0.0017	NV	NV	0.02	NV	NV	--	--	--	--	--	--
Dibenzo(a,e)pyrene	192-65-4	0.0026	NV	NV	0.011	NV	NV	--	--	--	--	--	--
Dibenzofuran	132-64-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dibenzothiophene	132-65-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dibromo-3-chloropropane, 1,2-	96-12-8	0.00017	0.0056	0.067	0.002	0.068	0.81	1.9	63	750	5.7	190	2,300
Dibromoacetic acid	631-64-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dibromobenzene, 1,3-	108-36-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dibromobenzene, 1,4-	106-37-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dibromochloromethane	124-48-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dibromoethane, 1,2-	106-93-4	0.0047	0.16	0.34	0.02	0.68	1.5	--	--	--	--	--	--
Dibromomethane (Methylene Bromide)	74-95-3	4.2	140	230	18	580	950	--	--	--	--	--	--
Dibutyl Phthalate	84-74-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dibutyltin Compounds	NA	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dibutyltin dichloride	683-18-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dicalcium phosphate	7757-93-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dicamba	1918-00-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dichloro-2-butene, 1,4-	764-41-0	0.00067	0.022	0.0046	0.0029	0.097	0.02	--	--	--	--	--	--
Dichloro-2-butene, cis-1,4-	1476-11-5	0.00067	0.022	0.053	0.0029	0.097	0.23	--	--	--	--	--	--
Dichloro-2-butene, trans-1,4-	110-57-6	0.00067	0.022	0.053	0.0029	0.097	0.23	--	--	--	--	--	--
Dichloroacetic Acid	79-43-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dichlorobenzene, 1,2-	95-50-1	210	7000	5,900	880	29,000	25,000	--	--	--	--	--	--
Dichlorobenzene, 1,3-	541-73-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dichlorobenzene, 1,4-	106-46-7	0.26	8.5	5.8	1.1	37	25	12,000	400,000	270,000	36,000	1,200,000	820,000
Dichlorobenzidine, 3,3'-	91-94-1	0.0083	NV	NV	0.036	NV	NV	--	--	--	--	--	--
Dichlorobenzophenone, 4,4'-	90-98-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dichlorobenzotrifluoride, 3,4-	328-84-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dichlorodifluoromethane	75-71-8	100	3500	10	440	15,000	41	--	--	--	--	--	--
Dichlorodiisopropyl ether, 2,2'-	39638-32-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dichloroethane, 1,1-	75-34-3	1.8	59	13	7.7	260	55	--	--	--	--	--	--
Dichloroethane, 1,2-	107-06-2	0.11	3.6	4	0.47	16	18	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Dichloroethylene, 1,1-	75-35-4	210	7000	300	880	29,000	1,300	200	6,700	290	600	20,000	890
Dichloroethylene, cis-1,2-	156-59-2	42	1400	430	180	5,800	1,800	--	--	--	--	--	--
Dichloroethylene, trans-1,2-	156-60-5	42	1400	180	180	5,800	750	790	26,000	3,400	2,400	80,000	10,000
Dichlorophenol, 2,4-	120-83-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dichloropropane, 1,2-	78-87-5	0.76	25	12	3.3	110	52	230	7,700	3,600	690	23,000	11,000
Dichloropropane, 1,3-	142-28-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dichloropropanol, 2,3-	616-23-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dichloropropene, 1,3-	542-75-6	0.7	23	9.2	3.1	100	40	36	1,200	470	110	3,700	1,400
Dichlorvos	62-73-7	0.034	NV	NV	0.15	NV	NV	18	NV	NV	54	NV	NV
Dicrotophos	141-66-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dicyclopentadiene	77-73-6	0.31	10	0.14	1.3	44	0.6	--	--	--	--	--	--
Dieldrin	60-57-1	0.00061	NV	NV	0.0027	NV	NV	--	--	--	--	--	--
Diesel Engine Exhaust	NA	0.0094	NV	NV	0.041	NV	NV	--	--	--	--	--	--
Diethanolamine	111-42-2	0.21	NV	NV	0.88	NV	NV	--	--	--	--	--	--
Diethyl Phthalate	84-66-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diethyl-meta-Toluamide, N,N (DEET)	134-62-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diethylene Glycol Monobutyl Ether	112-34-5	0.1	NV	NV	0.44	NV	NV	--	--	--	--	--	--
Diethylene Glycol Monoethyl Ether	111-90-0	0.31	NV	NV	1.3	NV	NV	--	--	--	--	--	--
Diethylformamide	617-84-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Diethylstilbestrol	56-53-1	0.000028	NV	NV	0.00012	NV	NV	--	--	--	--	--	--
Difenzoquat	43222-48-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diflubenzuron	35367-38-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Difluoroethane, 1,1-	75-37-6	42,000	1,400,000	68,000	180000	5,800,000	280,000	--	--	--	--	--	--
Difluoropropane, 2,2-	420-45-1	31,000	1,000,000	2,100	130000	4,400,000	8,800	--	--	--	--	--	--
Dihydrosafrole	94-58-6	0.22	7.2	1,100	0.94	31	4,800	--	--	--	--	--	--
Diisopropyl Ether	108-20-3	730	24000	12,000	3100	100,000	50,000	--	--	--	--	--	--
Diisopropyl Methylphosphonate	1445-75-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dimethipin	55290-64-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethoate	60-51-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethoxybenzidine, 3,3'-	119-90-4	0.00002	NV	NV	0.000088	NV	NV	--	--	--	--	--	--
Dimethyl methylphosphonate	756-79-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethylamino azobenzene [p-]	60-11-7	0.0022	NV	NV	0.0094	NV	NV	--	--	--	--	--	--
Dimethylaniline HCl, 2,4-	21436-96-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethylaniline, 2,4-	95-68-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethylaniline, N,N-	121-69-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dimethylbenz(a)anthracene, 7,12-	57-97-6	0.000014	NV	NV	0.00017	NV	NV	--	--	--	--	--	--
Dimethylbenzidine, 3,3'-	119-93-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethylformamide	68-12-2	31	1000	27,000,000	130	4,400	110,000,000	--	--	--	--	--	--
Dimethylhydrazine, 1,1-	57-14-7	0.0021	0.07	7.1	0.0088	0.29	30	0.49	16	1,700	1.5	50	5,100

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Dimethylhydrazine, 1,2-	540-73-8	0.000018	0.00059	11	0.000077	0.0026	47	--	--	--	--	--	--
Dimethylphenol, 2,4-	105-67-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethylphenol, 2,6-	576-26-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethylphenol, 3,4-	95-65-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethylphthalate	131-11-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dimethylterephthalate	120-61-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Dimethylvinylchloride	513-37-1	0.22	7.2	7.5	0.94	31	33	--	--	--	--	--	--
Dinitro-o-cresol, 4,6-	534-52-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitroaniline, 3,5-	618-87-1	2.1	NV	NV	8.8	NV	NV	--	--	--	--	--	--
Dinitrobenzene, 1,2-	528-29-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitrobenzene, 1,3-	99-65-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitrobenzene, 1,4-	100-25-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitrophenol, 2,4-	51-28-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitrotoluene Mixture, 2,4/2,6-	NA	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitrotoluene, 2,4-	121-14-2	0.032	NV	NV	0.14	NV	NV	--	--	--	--	--	--
Dinitrotoluene, 2,6-	606-20-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinitrotoluene, Technical grade	25321-14-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dinoseb	88-85-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dioxane, 1,4-	123-91-1	0.56	19	5,400	2.5	82	24,000	7,200	240,000	69,000,000	22,000	730,000	210,000,000
Diphenamid	957-51-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diphenyl Ether	101-84-8	0.42	14	110	1.8	58	460	--	--	--	--	--	--
Diphenyl Sulfone	127-63-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diphenylamine	122-39-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diphenylhydrazine, 1,2-	122-66-7	0.013	NV	NV	0.056	NV	NV	--	--	--	--	--	--
Dipotassium phosphate	7758-11-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Diquat	2764-72-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Direct Black 38	1937-37-7	0.0013	NV	NV	0.0058	NV	NV	--	--	--	--	--	--
Direct Blue 6	2602-46-2	0.0013	NV	NV	0.0058	NV	NV	--	--	--	--	--	--
Direct Brown 95	16071-86-6	0.0015	NV	NV	0.0065	NV	NV	--	--	--	--	--	--
Disodium phosphate	7558-79-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Disulfoton	298-04-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	6	NV	NV	18	NV	NV
Dithiane, 1,4-	505-29-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Diundecyl Phthalate	3648-20-2	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Diuron	330-54-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Dodine	2439-10-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
EPTC	759-94-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Endosulfan	115-29-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Endosulfan Sulfate	1031-07-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Endothall	145-73-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Endrin	72-20-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Epichlorohydrin	106-89-8	1	35	810	4.4	150	3,400	1,300	43,000	1,100,000	3,900	130,000	3,000,000
Epoxybutane, 1,2-	106-88-7	21	700	4,900	88	2,900	20,000	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ethephon	16672-87-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ethion	563-12-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ethoxyethanol Acetate, 2-	111-15-9	63	2,100	1,100,000	260	8,800	4,800,000	140	4,700	2,400,000	420	14,000	7,800,000
Ethoxyethanol, 2-	110-80-5	42	1,400	5,000,000	180	5,800	21,000,000	370	12,000	44,000,000	1,100	37,000	130,000,000
Ethyl Acetate	141-78-6	73	2,400	24,000	310	10,000	100,000	--	--	--	--	--	--
Ethyl Acrylate	140-88-5	8	280	1,200	35	1,200	4,900	--	--	--	--	--	--
Ethyl Chloride	75-00-3	4,200	140,000	14,000	18000	580,000	57,000	40,000	1,300,000	130,000	120,000	4,000,000	380,000
Ethyl Ether	60-29-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Ethyl Methacrylate	97-63-2	310	10,000	33,000	1300	44,000	140,000	--	--	--	--	--	--
Ethyl Tertiary Butyl Ether (ETBE)	637-92-3	35	1,200	900	150	5,100	3,900	--	--	--	--	--	--
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ethylbenzene	100-41-4	1.1	37	7.1	4.9	160	31	22,000	730,000	140,000	66,000	2,200,000	420,000
Ethylene Cyanohydrin	109-78-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ethylene Diamine	107-15-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Ethylene Glycol	107-21-1	420	NV	NV	1800	NV	NV	2,000	NV	NV	6,000	NV	NV
Ethylene Glycol Monobutyl Ether	111-76-2	1700	NV	NV	7000	NV	NV	29,000	NV	NV	87,000	NV	NV
Ethylene Oxide	75-21-8	0.00034	0.011	0.084	0.0041	0.14	1	160	5,300	40,000	480	16,000	120,000
Ethylene Thiourea	96-45-7	0.22	NV	NV	0.94	NV	NV	--	--	--	--	--	--
Ethyleneimine	151-56-4	0.00015	0.0049	0.52	0.00065	0.022	2.3	--	--	--	--	--	--
Ethylphthalyl Ethyl Glycolate	84-72-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Fenamiphos	22224-92-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Fenpropathrin	39515-41-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Fenvalerate	51630-58-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Fluometuron	2164-17-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Fluoranthene	206-44-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Fluorene	86-73-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Fluoride	16984-48-8	14	NV	NV	57	NV	NV	240	NV	NV	720	NV	NV
Fluorine (Soluble Fluoride)	7782-41-4	14	NV	NV	57	NV	NV	16	NV	NV	48	NV	NV
Fluorobenzene	462-06-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Fluridone	59756-60-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Flurprimidol	56425-91-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Flusilazole	85509-19-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Flutolanil	66332-96-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Fluvalinate	69409-94-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Folpet	133-07-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Fomesafen	72178-02-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Fonofos	944-22-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Formaldehyde	50-00-0	0.22	7.2	23,000	0.94	31	98,000	49	1,600	5,100,000	150	5,000	16,000,000
Formic Acid	64-18-6	0.31	10	69,000	1.3	44	290,000	--	--	--	--	--	--
Fosetyl-AL	39148-24-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Furan	110-00-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Furazolidone	67-45-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Furfural	98-01-1	52	1700	810,000	220	7,300	3,400,000	--	--	--	--	--	--
Furium	531-82-8	0.0065	NV	NV	0.029	NV	NV	--	--	--	--	--	--
Furmecyclox	60568-05-0	0.33	NV	NV	1.4	NV	NV	--	--	--	--	--	--
Gadolinium	7440-54-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Glufosinate, Ammonium	77182-82-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Glutaraldehyde	111-30-8	0.083	NV	NV	0.35	NV	NV	4.1	NV	NV	12	NV	NV
Glycidaldehyde	765-34-4	1	35	95,000	4.4	150	400,000	--	--	--	--	--	--
Glyphosate	1071-83-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Guanidine	113-00-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Guanidine Chloride	50-01-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Guanidine Nitrate	506-93-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Haloxyfop, Methyl	69806-40-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Heptachlor	76-44-8	0.0022	0.072	0.6	0.0094	0.31	2.6	--	--	--	--	--	--
Heptachlor Epoxide	1024-57-3	0.0011	0.036	5.7	0.0047	0.16	25	--	--	--	--	--	--
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	0.0025	0.082	1.2	0.011	0.36	5.2	--	--	--	--	--	--
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	7.4E-06	0.00025	0.013	0.000032	0.0011	0.056	--	--	--	--	--	--
Heptanal, n-	111-71-7	3.1	100	640	13	440	2700	--	--	--	--	--	--
Heptane, N-	142-82-5	420	14,000	9.5	1800	58,000	40	--	--	--	--	--	--
Hexabromobenzene	87-82-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Hexachlorobenzene	118-74-1	0.0061	0.2	0.29	0.027	0.89	1.3	--	--	--	--	--	--
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	0.0025	0.082	0.88	0.011	0.36	3.8	--	--	--	--	--	--
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	0.0025	0.082	0.37	0.011	0.36	1.6	--	--	--	--	--	--
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	0.0025	0.082	1.6	0.011	0.36	7	--	--	--	--	--	--
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	2.5E-06	0.000082	0.0033	0.000011	0.00036	0.015	--	--	--	--	--	--
Hexachlorobutadiene	87-68-3	0.13	4.3	0.74	0.56	19	3.3	--	--	--	--	--	--
Hexachlorocyclohexane, Alpha-	319-84-6	0.0016	NV	NV	0.0068	NV	NV	--	--	--	--	--	--
Hexachlorocyclohexane, Beta-	319-85-7	0.0053	NV	NV	0.023	NV	NV	--	--	--	--	--	--
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	0.0091	NV	NV	0.04	NV	NV	--	--	--	--	--	--
Hexachlorocyclohexane, Technical	608-73-1	0.0055	NV	NV	0.024	NV	NV	--	--	--	--	--	--
Hexachlorocyclopentadiene	77-47-4	0.21	7	11	0.88	29	48	110	3,700	5,800	330	11,000	18,000
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	7.4E-07	NV	NV	0.0000032	NV	NV	--	--	--	--	--	--
Hexachlorodibenzo-p-dioxin, Mixture	34465-46-8	2.2E-06	NV	NV	0.0000094	NV	NV	--	--	--	--	--	--
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	7.4E-07	0.000025	0.00047	0.0000032	0.00011	0.002	--	--	--	--	--	--
Hexachloroethane	67-72-1	0.26	8.5	1.6	1.1	37	7	58,000	1,900,000	360,000	170,000	5,700,000	1,100,000
Hexachlorophene	70-30-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Hexafluoropropylene oxide dimer acid (HFPO-DA)	13252-13-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Hexamethylene Diisocyanate, 1,6-	822-06-0	0.01	0.35	13	0.044	1.5	53	0.21	7	270	0.63	21	760
Hexamethylene diisocyanate biuret	4035-89-6	0.42	NV	NV	1.8	NV	NV	--	--	--	--	--	--
Hexamethylene diisocyanate isocyanurate	3779-63-3	0.42	NV	NV	1.8	NV	NV	--	--	--	--	--	--
Hexamethylphosphoramide	680-31-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Hexane, Commercial	NA	14	470	0.32	61	2,000	1.4	--	--	--	--	--	--
Hexane, N-	110-54-3	730	24,000	17	3100	100,000	71	--	--	--	--	--	--
Hexanedioic Acid	124-04-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Hexanol, 1-,2-ethyl- (2-Ethyl-1-hexanol)	104-76-7	0.42	14	1,300	1.8	58	5,400	--	--	--	--	--	--
Hexanone, 2-	591-78-6	31	1000	17,000	130	4,400	72,000	--	--	--	--	--	--
Hexazinone	51235-04-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Hexythiazox	78587-05-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
HpCDD, 1,2,3,4,6,7,8,-	35822-46-9	7.4E-06	0.00025	0.001	0.000032	0.0011	0.0045	--	--	--	--	--	--
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	7.4E-06	0.00025	0.013	0.000032	0.0011	0.056	--	--	--	--	--	--
HxCDD, 1,2,3,6,7,8-	57653-85-7	7.4E-07	NV	NV	0.0000032	NV	NV	--	--	--	--	--	--
HxCDD, 1,2,3,7,8,9-	19408-74-3	7.4E-07	NV	NV	0.0000032	NV	NV	--	--	--	--	--	--
HxCDF, 1,2,3,6,7,8-	57117-44-9	7.4E-07	0.000025	0.00047	0.0000032	0.00011	0.002	--	--	--	--	--	--
HxCDF, 1,2,3,7,8,9-	72918-21-9	7.4E-07	NV	NV	0.0000032	NV	NV	--	--	--	--	--	--
HxCDF, 2,3,4,6,7,8-	60851-34-5	7.4E-07	NV	NV	0.0000032	NV	NV	--	--	--	--	--	--
Hydramethylnon	67485-29-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Hydrazine	302-01-2	0.00057	0.019	50	0.0025	0.083	220	5.2	170	460,000	16	530	1,400,000
Hydrazine Sulfate	10034-93-2	0.00057	NV	NV	0.0025	NV	NV	--	--	--	--	--	--
Hydrogen Chloride	7647-01-0	21	700	1,200,000,000	88	2,900	5,100,000,000	2,100	70,000	120,000,000,000	6,300	210,000	370,000,000,000
Hydrogen Cyanide	74-90-8	0.83	28	240	3.5	120	1,000	340	11,000	98,000	1,000	33,000	290,000
Hydrogen Fluoride	7664-39-3	15	490	3,800	61	2,000	16,000	16	530	4,100	48	1,600	13,000
Hydrogen Sulfide	7783-06-4	2.1	70	7.5	8.8	290	32	98	3,300	350	290	9,700	1,100
Hydroquinone	123-31-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Imazalil	35554-44-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Imazaquin	81335-37-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Imazethapyr	81335-77-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	193-39-5	0.017	NV	NV	0.2	NV	NV	--	--	--	--	--	--
Iodine	7553-56-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Iprodione	36734-19-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Iron	7439-89-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Isobutyl Alcohol	78-83-1	420	14,000	2,400,000	1800	58,000	10,000,000	--	--	--	--	--	--
Isophorone	78-59-1	2100	NV	NV	8800	NV	NV	--	--	--	--	--	--
Isopropalin	33820-53-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Isopropanol	67-63-0	210	7,000	1,400,000	880	29,000	5,700,000	3,200	110,000	21,000,000	9,600	320,000	62,000,000
Isopropyl Methyl Phosphonic Acid	1832-54-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Isoxaben	82558-50-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
JP-4	50815-00-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
JP-5	NA	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
JP-7	NA	310	NV	770	1300	NV	3,200	--	--	--	--	--	--
JP-8	NA	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Kerosene	8008-20-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Lactofen	77501-63-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lactonitrile	78-97-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lanthanum	7439-91-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lanthanum Acetate Hydrate	100587-90-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lanthanum Chloride Heptahydrate	10025-84-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lanthanum Chloride, Anhydrous	10099-58-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lanthanum Nitrate Hexahydrate	10277-43-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lead Phosphate	7446-27-7	0.23	NV	NV	1	NV	NV	--	--	--	--	--	--
Lead acetate	301-04-2	0.035	NV	NV	0.15	NV	NV	0.15	NV	NV	0.45	NV	NV
Lead subacetate	1335-32-6	0.26	NV	NV	1.1	NV	NV	--	--	--	--	--	--
Lewisite	541-25-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Linuron	330-55-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lithium	7439-93-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lithium Perchlorate	7791-03-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Lutetium	7439-94-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
MCPA	94-74-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
MCPB	94-81-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
MCPBP	93-65-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Malathion	121-75-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Maleic Anhydride	108-31-6	0.73	NV	NV	3.1	NV	NV	--	--	--	--	--	--
Maleic Hydrazide	123-33-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Malononitrile	109-77-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Mancozeb	8018-01-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Maneb	12427-38-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Manganese (Diet)	7439-96-5	0.052	NV	NV	0.22	NV	NV	0.3	NV	NV	0.9	NV	NV
Manganese (Non-diet)	7439-96-5	0.052	NV	NV	0.22	NV	NV	0.3	NV	NV	0.9	NV	NV
Meposfolan	950-10-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Mepiquat Chloride	24307-26-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Mercaptobenzothiazole, 2-	149-30-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Mercuric Chloride	7487-94-7	0.31	NV	NV	1.3	NV	NV	--	--	--	--	--	--
Mercury (elemental)	7439-97-6	0.31	10	3	1.3	44	11	0.6	20	5	1.8	60	15
Merphos	150-50-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Metalaxyl	57837-19-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methacrylonitrile	126-98-7	31	1000	5,600	130	4,400	24,000	--	--	--	--	--	--
Methamidophos	10265-92-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methanol	67-56-1	21,000	700,000	210,000,000	88000	2,900,000	900,000,000	28,000	930,000	280,000,000	84,000	2,800,000	860,000,000
Methidathion	950-37-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Methomyl	16752-77-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methoxy-5-nitroaniline, 2-	99-59-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methoxychlor	72-43-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methoxyethanol Acetate, 2-	110-49-6	1	35	210,000	4.4	150	860,000	--	--	--	--	--	--
Methoxyethanol, 2-	109-86-4	7.3	240	1,100,000	31	1,000	4,800,000	93	3,100	14,000,000	280	9,300	43,000,000
Methyl Acetate	79-20-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Methyl Acrylate	96-33-3	21	700	4,700	88	2,900	20,000	--	--	--	--	--	--
Methyl Ethyl Ketone (2-Butanone)	78-93-3	5,200	170,000	4,000,000	22000	730,000	17,000,000	5,000	170,000	3,800,000	15,000	500,000	12,000,000
Methyl Hydrazine	60-34-4	0.0028	0.094	44	0.012	0.41	190	--	--	--	--	--	--
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	3,100	100,000	1,100,000	13000	440,000	4,600,000	--	--	--	--	--	--
Methyl Isocyanate	624-83-9	1	35	43	4.4	150	180	--	--	--	--	--	--
Methyl Mercury	22967-92-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methyl Methacrylate	80-62-6	730	24,000	110,000	3100	100,000	480,000	--	--	--	--	--	--
Methyl Parathion	298-00-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methyl Phosphonic Acid	993-13-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methyl Styrene (Mixed Isomers)	25013-15-4	42	1,400	1,100	180	5,800	4,600	--	--	--	--	--	--
Methyl methanesulfonate	66-27-3	0.1	NV	NV	0.44	NV	NV	--	--	--	--	--	--
Methyl tert-Butyl Ether (MTBE)	1634-04-4	11	360	740	47	1,600	3,200	8,000	270,000	540,000	24,000	800,000	1,600,000
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methyl-2-Pentanol, 4-	108-11-2	3,100	100,000	4,300,000	13000	440,000	18,000,000	--	--	--	--	--	--
Methyl-5-Nitroaniline, 2-	99-55-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	0.0012	NV	NV	0.0051	NV	NV	--	--	--	--	--	--
Methylaniline Hydrochloride, 2-	636-21-5	0.076	NV	NV	0.33	NV	NV	--	--	--	--	--	--
Methylarsonic acid	124-58-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methylbenzene,1,4-diamine monohydrochloride, 2-	74612-12-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Methylcholanthrene, 3-	56-49-5	0.00016	NV	NV	0.002	NV	NV	--	--	--	--	--	--
Methylcyclopentane	96-37-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Methylene Chloride	75-09-2	100	3400	1,200	1200	41,000	15,000	2,100	70,000	25,000	6,300	210,000	79,000
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	0.0024	NV	NV	0.029	NV	NV	--	--	--	--	--	--
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	0.22	NV	NV	0.94	NV	NV	--	--	--	--	--	--
Methylenebisbenzenamine, 4,4'-	101-77-9	0.0061	NV	NV	0.027	NV	NV	--	--	--	--	--	--
Methylenediphenyl Diisocyanate	101-68-8	0.63	NV	NV	2.6	NV	NV	12	NV	NV	36	NV	NV
Methylnaphthalene, 1-	90-12-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Methylnaphthalene, 2-	91-57-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Methylstyrene, Alpha-	98-83-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Metolachlor	51218-45-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Metribuzin	21087-64-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Metsulfuron-methyl	74223-64-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Midrange Aliphatic Hydrocarbon Streams	NA	0.62	21	0.012	2.7	91	0.053	--	--	--	--	--	--
Mineral oils	8012-95-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Mirex	2385-85-5	0.00055	0.018	0.017	0.0024	0.08	0.073	--	--	--	--	--	--
Molinate	2212-67-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Molybdenum	7439-98-7	2.1	NV	NV	8.8	NV	NV	--	--	--	--	--	--
Monoammonium phosphate	7722-76-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Monobutyltin Compounds	NA	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Monocalcium phosphate	7758-23-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Monochloramine	10599-90-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Monomethylaniline	100-61-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Monopotassium phosphate	7778-77-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Monosodium phosphate	7558-80-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Myclobutanil	88671-89-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Naled	300-76-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	100	NV	5,800	440	NV	24,000	--	--	--	--	--	--
Naphthalene	91-20-3	0.083	2.8	11	0.36	12	50	200	6,700	27,000	600	20,000	83,000
Naphthylamine, 2-	91-59-8	NITI	NV	NV	NITI	NV	NV	--	--	--	--	--	--
Napropamide	15299-99-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Neodymium Chloride (Stable, Nonradioactive)	10024-93-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Nickel Acetate	373-02-4	0.011	NV	NV	0.047	NV	NV	0.2	NV	NV	0.6	NV	NV
Nickel Carbonate	3333-67-3	0.011	NV	NV	0.047	NV	NV	--	--	--	--	--	--
Nickel Carbonyl	13463-39-3	0.011	0.36	0.00086	0.047	1.6	0.0038	--	--	--	--	--	--
Nickel Hydroxide	12054-48-7	0.011	NV	NV	0.047	NV	NV	--	--	--	--	--	--
Nickel Oxide	1313-99-1	0.011	NV	NV	0.047	NV	NV	--	--	--	--	--	--
Nickel Refinery Dust	NA	0.012	NV	NV	0.051	NV	NV	--	--	--	--	--	--
Nickel Soluble Salts	7440-02-0	0.011	NV	NV	0.047	NV	NV	0.2	NV	NV	0.6	NV	NV
Nickel Subsulfide	12035-72-2	0.0059	NV	NV	0.026	NV	NV	--	--	--	--	--	--
Nickelocene	1271-28-9	0.011	NV	NV	0.047	NV	NV	--	--	--	--	--	--
Nitrate (measured as nitrogen)	14797-55-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	86	NV	NV	260	NV	NV
Nitrite (measured as nitrogen)	14797-65-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Nitroaniline, 2-	88-74-4	0.052	NV	NV	0.22	NV	NV	--	--	--	--	--	--
Nitroaniline, 3-	99-09-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Nitroaniline, 4-	100-01-6	6.3	NV	NV	26	NV	NV	--	--	--	--	--	--
Nitrobenzene	98-95-3	0.07	2.3	180	0.31	10	800	--	--	--	--	--	--
Nitrocellulose	9004-70-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Nitrofurantoin	67-20-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Nitrofurazone	59-87-0	0.0076	NV	NV	0.033	NV	NV	--	--	--	--	--	--
Nitroglycerin	55-63-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Nitroguanidine	556-88-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Nitromethane	75-52-5	0.32	11	520	1.4	47	2,300	--	--	--	--	--	--
Nitrophenol, 2-	88-75-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Nitropropane, 2-	79-46-9	0.0048	0.16	2	0.021	0.71	8.9	--	--	--	--	--	--
Nitropyrene, 4-	57835-92-4	0.026	NV	NV	0.11	NV	NV	--	--	--	--	--	--
Nitroso-N-ethylurea, N-	759-73-9	0.00013	NV	NV	0.0016	NV	NV	--	--	--	--	--	--
Nitroso-N-methylurea, N-	684-93-5	0.00003	NV	NV	0.00036	NV	NV	--	--	--	--	--	--
Nitroso-di-N-butylamine, N-	924-16-3	0.0018	0.059	6.2	0.0077	0.26	27	--	--	--	--	--	--
Nitroso-di-N-propylamine, N-	621-64-7	0.0014	NV	NV	0.0061	NV	NV	--	--	--	--	--	--
Nitrosodiethanolamine, N-	1116-54-7	0.0035	NV	NV	0.015	NV	NV	--	--	--	--	--	--
Nitrosodiethylamine, N-	55-18-5	0.000024	NV	NV	0.00029	NV	NV	--	--	--	--	--	--
Nitrosodimethylamine, N-	62-75-9	0.000072	0.0024	2.1	0.00088	0.029	25	--	--	--	--	--	--
Nitrosodiphenylamine, N-	86-30-6	1.1	NV	NV	4.7	NV	NV	--	--	--	--	--	--
Nitrosomethylethylamine, N-	10595-95-6	0.00045	0.015	7.6	0.002	0.065	33	--	--	--	--	--	--
Nitrosomorpholine [N-]	59-89-2	0.0015	NV	NV	0.0065	NV	NV	--	--	--	--	--	--
Nitrosopiperidine [N-]	100-75-4	0.001	NV	NV	0.0045	NV	NV	--	--	--	--	--	--
Nitrosopyrrolidine, N-	930-55-2	0.0046	NV	NV	0.02	NV	NV	--	--	--	--	--	--
Nitrotoluene, m-	99-08-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Nitrotoluene, o-	88-72-2	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Nitrotoluene, p-	99-99-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Nonane, n-	111-84-2	21	700	0.33	88	2,900	1.4	--	--	--	--	--	--
Norflurazon	27314-13-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
OCDD	3268-87-9	0.00025	NV	NV	0.0011	NV	NV	--	--	--	--	--	--
OCDF	39001-02-0	0.00025	NV	NV	0.0011	NV	NV	--	--	--	--	--	--
Octabromodiphenyl Ether	32536-52-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Octamethylpyrophosphoramid e	152-16-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Octyl Phthalate, di-N-	117-84-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Oryzalin	19044-88-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Oxadiazon	19666-30-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Oxamyl	23135-22-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Oxyfluorfen	42874-03-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Paclobutrazol	76738-62-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Paraquat Dichloride	1910-42-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Parathion	56-38-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	0.02	NV	NV	0.06	NV	NV
PeCDF, 1,2,3,7,8-	57117-41-6	2.5E-06	NV	NV	0.000011	NV	NV	--	--	--	--	--	--
PeCDF, 2,3,4,7,8-	57117-31-4	2.5E-07	NV	NV	0.0000011	NV	NV	--	--	--	--	--	--
Pebulate	1114-71-2	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Pendimethalin	40487-42-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Pentabromodiphenyl Ether	32534-81-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Pentachlorobenzene	608-93-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	0.0025	0.082	0.32	0.011	0.36	1.4	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	0.0025	0.082	0.79	0.011	0.36	3.5	--	--	--	--	--	--
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	0.0025	0.082	0.81	0.011	0.36	3.5	--	--	--	--	--	--
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	0.0025	0.082	0.65	0.011	0.36	2.9	--	--	--	--	--	--
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	7.4E-07	0.000025	0.00036	0.0000032	0.00011	0.0016	--	--	--	--	--	--
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	7.4E-08	NV	NV	3.2E-07	NV	NV	--	--	--	--	--	--
Pentachloroethane	76-01-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Pentachloronitrobenzene	82-68-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Pentachlorophenol	87-86-5	0.55	NV	NV	2.4	NV	NV	--	--	--	--	--	--
Pentaerythritol tetranitrate (PETN)	78-11-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Pentamethylphosphoramidate (PMPA)	10159-46-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Pentane, n-	109-66-0	1,000	35,000	32	4400	150,000	130	--	--	--	--	--	--
Perchlorate and Perchlorate Salts	14797-73-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorobutanesulfonate	45187-15-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorobutanesulfonic acid (PFBS)	375-73-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorobutanoate	45048-62-2	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Perfluorobutanoic acid (PFBA)	375-22-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Perfluorohexanesulfonate	108427-53-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorohexanoate	92612-52-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Perfluorohexanoic acid (PFHxA)	307-24-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorononanoate	72007-68-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorononanoic acid (PFNA)	375-95-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorooctanesulfonate	45298-90-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorooctanoate	45285-51-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perfluorooctanoic acid (PFOA)	335-67-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Permethrin	52645-53-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Perylene	198-55-0	0.0021	NV	NV	0.0088	NV	NV	--	--	--	--	--	--
Phenacetin	62-44-2	4.5	NV	NV	20	NV	NV	--	--	--	--	--	--
Phenmedipham	13684-63-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phenol	108-95-2	210	NV	NV	880	NV	NV	5,800	NV	NV	17,000	NV	NV
Phenol, 2-(1-methylethoxy)-, methylcarbamate	114-26-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phenothiazine	92-84-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phenyl Isothiocyanate	103-72-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Phenylenediamine, m-	108-45-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phenylenediamine, o-	95-54-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Phenylenediamine, p-	106-50-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phenylmercuric Acetate	62-38-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phenylphenol, 2-	90-43-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phorate	298-02-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phosgene	75-44-5	0.31	10	0.75	1.3	44	3.2	4	130	10	12	400	30
Phosmet	732-11-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phosphine	7803-51-2	0.31	10	0.36	1.3	44	1.5	--	--	--	--	--	--
Phosphoric Acid	7664-38-2	10	NV	NV	44	NV	NV	--	--	--	--	--	--
Phosphorus, White	7723-14-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Phthalic Acid, p-	100-21-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Phthalic Anhydride	85-44-9	21	NV	NV	88	NV	NV	--	--	--	--	--	--
Picloram	1918-02-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Pirimiphos, Methyl	29232-93-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Polybrominated Biphenyls	36355-01-8	0.00033	NV	NV	0.0014	NV	NV	--	--	--	--	--	--
Polychlorinated Biphenyls (high risk)	1336-36-3	0.0049	0.16	0.29	0.022	0.72	1.3	--	--	--	--	--	--
Polychlorinated Biphenyls (low risk)	1336-36-3	0.028	0.94	1.7	0.12	4.1	7.2	--	--	--	--	--	--
Polychlorinated Biphenyls (lowest risk)	1336-36-3	0.14	4.7	8.3	0.61	20	36	--	--	--	--	--	--
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	0.63	NV	NV	2.6	NV	NV	--	--	--	--	--	--
Polyphosphoric acid	8017-16-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Potassium Cyanide	151-50-8	9.4	NV	NV	39	NV	NV	--	--	--	--	--	--
Potassium Perchlorate	7778-74-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Potassium Silver Cyanide	506-61-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Potassium heptafluorobutanoate	2966-54-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Potassium perfluorobutanesulfonate	29420-49-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Potassium perfluorooctanesulfonate	2795-39-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Potassium salts of inorganic phosphates	NA	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Potassium tripolyphosphate	13845-36-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Praseodymium Chloride (Stable, Nonradioactive)	10361-79-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Prochloraz	67747-09-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Profluralin	26399-36-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Prometon	1610-18-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Prometryn	7287-19-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Pronamide	23950-58-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Propachlor	1918-16-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Propanil	709-98-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Propargite	2312-35-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Propargyl Alcohol	107-19-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Propazine	139-40-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Propham	122-42-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Propiconazole	60207-90-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Propionaldehyde	123-38-6	8.3	280	4,500	35	1,200	19,000	--	--	--	--	--	--
Propyl benzene	103-65-1	1,000	35,000	5,300	4400	150,000	22,000	--	--	--	--	--	--
Propylene	115-07-1	3,100	100,000	490	13000	440,000	2,100	--	--	--	--	--	--
Propylene Glycol	57-55-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Propylene Glycol Dinitrate	6423-43-4	0.28	NV	NV	1.2	NV	NV	20	NV	NV	60	NV	NV
Propylene Glycol Monomethyl Ether	107-98-2	2,100	70,000	110,000,000	8800	290,000	440,000,000	--	--	--	--	--	--
Propylene Oxide	75-56-9	0.76	25	430	3.3	110	1,900	3,100	100,000	1,800,000	9,300	310,000	5,400,000
Pyrene	129-00-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Pyridine	110-86-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Quinalphos	13593-03-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Quinoline	91-22-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Quizalofop-ethyl	76578-14-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Refractory Ceramic Fibers (units in fibers)	NA	31,000	NV	NV	130000	NV	NV	--	--	--	--	--	--
Resmethrin	10453-86-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Ronnel	299-84-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Rotenone	83-79-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Rubidium	7440-17-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Rubidium Chloride	7791-11-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Rubidium Hydroxide	1310-82-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Rubidium Iodide	7790-29-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Safrole	94-59-7	0.016	NV	NV	0.2	NV	NV	--	--	--	--	--	--
Samarium Chloride (Stable, Nonradioactive)	10361-82-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Samarium Nitrate (Stable, Nonradioactive)	10361-83-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Selenious Acid	7783-00-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Selenium	7782-49-2	21	NV	NV	88	NV	NV	2	NV	NV	6	NV	NV
Selenium Sulfide	7446-34-6	21	NV	NV	88	NV	NV	--	--	--	--	--	--
Sethoxydim	74051-80-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Silica (crystalline, respirable)	7631-86-9	3.1	NV	NV	13	NV	NV	--	--	--	--	--	--
Silver	7440-22-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Silver Cyanide	506-64-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Simazine	122-34-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium Acifluorfen	62476-59-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium Azide	26628-22-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium Cyanide	143-33-9	9.4	NV	NV	39	NV	NV	--	--	--	--	--	--
Sodium Diethyldithiocarbamate	148-18-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium Fluoride	7681-49-4	15	NV	NV	61	NV	NV	--	--	--	--	--	--
Sodium Fluoroacetate	62-74-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Sodium Metavanadate	13718-26-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium Perchlorate	7601-89-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium Tungstate	13472-45-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium acid pyrophosphate	7758-16-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium hexametaphosphate	10124-56-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium perfluorobutanoate	2218-54-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Sodium perfluorohexanoate	2923-26-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Sodium polyphosphate	68915-31-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium salts of inorganic phosphates	NA	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium trimetaphosphate	7785-84-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sodium tripolyphosphate	7758-29-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Stirofos (Tetrachlorovinphos)	961-11-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Strontium, Stable	7440-24-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Strychnine	57-24-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Styrene	100-42-5	1000	35000	20,000	4400	150,000	84,000	21,000	700,000	420,000	63,000	2,100,000	1,200,000
Styrene-Acrylonitrile (SAN) Trimer (THNA isomer)	57964-39-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Styrene-Acrylonitrile (SAN) Trimer (THNP isomer)	57964-40-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sulfolane	126-33-0	2.1	NV	NV	8.8	NV	NV	--	--	--	--	--	--
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Sulfur Mustard	505-60-2	NITI	NITI	NITI	NITI	NITI	NITI	0.7	23	NC	2.1	70	NC
Sulfur Trioxide	7446-11-9	1	35	NV	4.4	150	NV	120	4,000	NC	360	12,000	NC
Sulfuric Acid	7664-93-9	1	NV	NV	4.4	NV	NV	120	NV	NV	360	NV	NV
Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester	140-57-8	0.4	NV	NV	1.7	NV	NV	--	--	--	--	--	--
TCDD, 2,3,7,8-	1746-01-6	7.4E-08	0.0000025	0.000036	3.2E-07	0.000011	0.00016	--	--	--	--	--	--
TCDF, 2,3,7,8-	51207-31-9	7.4E-07	0.000025	0.0011	0.0000032	0.00011	0.0047	--	--	--	--	--	--
TCMTB	21564-17-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tebuthiuron	34014-18-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Temephos	3383-96-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Terbacil	5902-51-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Terbufos	13071-79-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Terbutryn	886-50-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tert-Butyl Acetate	540-88-5	2.2	72	61	9.4	310	270	--	--	--	--	--	--
Tetrabromodiphenyl ether, 2,2',4,4'- (BDE-47)	5436-43-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tetrachlorobenzene, 1,2,4,5-	95-94-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Tetrachlorobiphenyl, 3,3',4,4'-(PCB 77)	32598-13-3	0.00074	NV	NV	0.0032	NV	NV	--	--	--	--	--	--
Tetrachlorobiphenyl, 3,4,4',5-(PCB 81)	70362-50-4	0.00025	0.0082	0.027	0.0011	0.036	0.12	--	--	--	--	--	--
Tetrachloroethane, 1,1,1,2-	630-20-6	0.38	13	8.3	1.7	55	36	--	--	--	--	--	--
Tetrachloroethane, 1,1,2,2-	79-34-5	0.048	1.6	6.8	0.21	7.1	30	--	--	--	--	--	--
Tetrachloroethylene	127-18-4	11	360	29	47	1,600	130	41	1,400	110	120	4,000	330

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Tetrachlorophenol, 2,3,4,6-	58-90-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Tetraethyl Dithiopyrophosphate	3689-24-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tetraethyl Lead	78-00-2	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Tetrafluoroethane, 1,1,1,2-	811-97-2	83,000	2,800,000	57,000	350000	12,000,000	240,000	--	--	--	--	--	--
Tetrahydrofuran	109-99-9	2,100	70,000	1,200,000	8800	290,000	5,200,000	--	--	--	--	--	--
Tetramethylcyclohexane	30501-43-0	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Tetramethylphosphoramide, -N,N,N',N" (TMPA)	16853-36-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tetrapotassium phosphate	7320-34-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tetrasodium pyrophosphate	7722-88-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thallic Oxide	1314-32-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thallium (I) Nitrate	10102-45-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thallium (Soluble Salts)	7440-28-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thallium Acetate	563-68-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Thallium Carbonate	6533-73-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thallium Chloride	7791-12-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thallium Selenite	12039-52-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thallium Sulfate	7446-18-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thifensulfuron-methyl	79277-27-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thiobencarb	28249-77-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thiocyanates	NA	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thiocyanic Acid	463-56-9	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Thiodiglycol	111-48-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thiofanox	39196-18-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thiophanate, Methyl	23564-05-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Thiram	137-26-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tin	7440-31-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Titanium Tetrachloride	7550-45-0	0.1	3.5	NV	0.44	15	NV	10	330	NC	30	1,000	NC
Toluene	108-88-3	5,200	170,000	36,000	22000	730,000	150,000	7,500	250,000	52,000	23,000	770,000	160,000
Toluene-2,4-diisocyanate	584-84-9	0.0083	0.28	60	0.035	1.2	250	0.071	2.4	510	0.21	7	1,500
Toluene-2,5-diamine	95-70-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Toluene-2,6-diisocyanate	91-08-7	0.0083	0.28	49	0.035	1.2	210	--	--	--	--	--	--
Toluenediamine, 2,3-	2687-25-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Toluenediamine, 3,4-	496-72-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Toluic Acid, p-	99-94-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Toluidine, o- (Methylaniline, 2-)	95-53-4	0.055	NV	NV	0.24	NV	NV	--	--	--	--	--	--
Toluidine, p-	106-49-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Total Petroleum Hydrocarbons (Aliphatic High)	NA	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Total Petroleum Hydrocarbons (Aliphatic Low)	NA	420	14,000	390	1800	58,000	1,700	--	--	--	--	--	--
Total Petroleum Hydrocarbons	NA	100	3,500	0.75	440	15,000	3.2	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
(Aliphatic Medium)													
Total Petroleum Hydrocarbons (Aromatic High)	NA	0.0021	NV	NV	0.0088	NV	NV	--	--	--	--	--	--
Total Petroleum Hydrocarbons (Aromatic Low)	NA	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Total Petroleum Hydrocarbons (Aromatic Medium)	NA	63	2,100	580	260	8,800	2,400	--	--	--	--	--	--
Toxaphene	8001-35-2	0.0088	NV	NV	0.038	NV	NV	--	--	--	--	--	--
Toxaphene, Weathered	NA	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tralomethrin	66841-25-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tri-n-butyltin	688-73-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Triacetin	102-76-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Triadimefon	43121-43-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Triallate	2303-17-5	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Triasulfuron	82097-50-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tribenuron-methyl	101200-48-0	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tribromobenzene, 1,2,4-	615-54-3	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Tribromophenol, 2,4,6-	118-79-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tribufos	78-48-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tributyl Phosphate	126-73-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tributyltin Compounds	NA	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tributyltin Oxide	56-35-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tricalcium phosphate	7758-87-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	5200	170,000	390	22000	730,000	1,600	--	--	--	--	--	--
Trichloro-2'-hydroxydiphenylether	3380-34-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trichloroacetic Acid	76-03-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trichloroaniline HCl, 2,4,6-	33663-50-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trichloroaniline, 2,4,6-	634-93-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trichlorobenzene, 1,2,3-	87-61-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Trichlorobenzene, 1,2,4-	120-82-1	2.1	70	91	8.8	290	380	--	--	--	--	--	--
Trichloroethane, 1,1,1-	71-55-6	5200	170,000	13,000	22000	730,000	53,000	11,000	370,000	28,000	33,000	1,100,000	80,000
Trichloroethane, 1,1,2-	79-00-5	0.18	5.9	10	0.77	26	44	--	--	--	--	--	--
Trichloroethylene	79-01-6	0.48	16	2.1	3	100	13	2.1	70	9.2	6.3	210	27
Trichlorofluoromethane	75-69-4	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Trichlorophenol, 2,4,5-	95-95-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trichlorophenol, 2,4,6-	88-06-2	0.91	NV	NV	4	NV	NV	--	--	--	--	--	--
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trichloropropane, 1,1,2-	598-77-6	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Trichloropropane, 1,2,3-	96-18-4	0.31	10	47	1.3	44	200	1.8	60	270	5.4	180	830
Trichloropropene, 1,2,3-	96-19-5	0.31	10	0.89	1.3	44	3.7	--	--	--	--	--	--
Tricresyl Phosphate (TCP)	1330-78-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tridipane	58138-08-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--

		Chronic Screening Values						Acute Screening Values					
		Residential			Commercial			Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Triethylamine	121-44-8	7.3	240	2,200	31	1,000	9,100	2,800	93,000	840,000	8,400	280,000	2,500,000
Triethylene Glycol	112-27-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trifluoroethane, 1,1,1-	420-46-2	21,000	700,000	820	88000	2,900,000	3,500	--	--	--	--	--	--
Trifluralin	1582-09-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Trimethyl Phosphate	512-56-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trimethylbenzene, 1,2,3-	526-73-8	63	2,100	990	260	8,800	4,100	--	--	--	--	--	--
Trimethylbenzene, 1,2,4-	95-63-6	63	2,100	560	260	8,800	2,400	--	--	--	--	--	--
Trimethylbenzene, 1,3,5-	108-67-8	63	2,100	400	260	8,800	1,700	--	--	--	--	--	--
Trimethylpentene, 2,4,4-	25167-70-8	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Trinitrobenzene, 1,3,5-	99-35-4	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trinitrotoluene, 2,4,6-	118-96-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Triphenylphosphine Oxide	791-28-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tripotassium phosphate	7778-53-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tris(1-chloro-2-propyl)phosphate	13674-84-5	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tris(2,3-dibromopropyl)phosphate	126-72-7	0.0043	0.14	4.8	0.019	0.62	21	--	--	--	--	--	--
Tris(2-chloroethyl)phosphate	115-96-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tris(2-ethylhexyl)phosphate	78-42-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trisbutoxyethyl Phosphate	78-51-3	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Trisodium phosphate	7601-54-9	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Tungsten	7440-33-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Uranium	7440-61-1	0.042	NV	NV	0.18	NV	NV	--	--	--	--	--	--
Urethane	51-79-6	0.0035	NV	NV	0.042	NV	NV	--	--	--	--	--	--
Vanadium Pentoxide	1314-62-1	0.00034	NV	NV	0.0015	NV	NV	30	NV	NV	90	NV	NV
Vanadium and Compounds	7440-62-2	0.1	NV	NV	0.44	NV	NV	0.8	NV	NV	2.4	NV	NV
Vernolate	1929-77-7	NITI	NITI	NITI	NITI	NITI	NITI	--	--	--	--	--	--
Vinclozolin	50471-44-8	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Vinyl Acetate	108-05-4	210	7000	19,000	880	29,000	80,000	200	6,700	18,000	600	20,000	55,000
Vinyl Bromide	593-60-2	0.19	6.2	0.54	0.82	27	2.4	--	--	--	--	--	--
Vinyl Chloride	75-01-4	0.17	5.6	0.2	2.8	93	3.3	1,300	43,000	1,500	3,900	130,000	4,600
Warfarin	81-81-2	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Xylene, m-	108-38-3	100	3500	730	440	15,000	3,000	--	--	--	--	--	--
Xylene, o-	95-47-6	100	3500	1,000	440	15,000	4,300	--	--	--	--	--	--
Xylene, p-	106-42-3	100	3500	750	440	15,000	3,200	--	--	--	--	--	--
Xylenes	1330-20-7	100	3500	780	440	15,000	3,300	8,700	290,000	68,000	26,000	870,000	200,000
Zinc Cyanide	557-21-1	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Zinc Phosphide	1314-84-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Zinc and Compounds	7440-66-6	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Zineb	12122-67-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Zirconium	7440-67-7	NITI	NITI, NV	NITI, NV	NITI	NITI, NV	NITI, NV	--	--	--	--	--	--
Generic TPH													
Gasoline		300	10,000	120	1200	40,000	520						

		Chronic Screening Values							Acute Screening Values					
		Residential			Commercial				Residential			Commercial		
Chemical	CAS Number	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)		RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)	RBCair (µg/m³)	RBCsv (µg/m³)	RBCwi (µg/L)
Diesel/Heating Oil Mineral Insulating Oil		100	3300	400	430	14,000	1,700							
		140	4700	360	620	21,000	1,500							

Notes:
 NV = not volatile
 NITI = no inhalation toxicity information

RBCair = risk-based concentration in air
 RBCsv = risk-based concentration for soil vapor volatilization to indoor air
 RBCwi = risk-based concentration for groundwater volatilization to indoor air

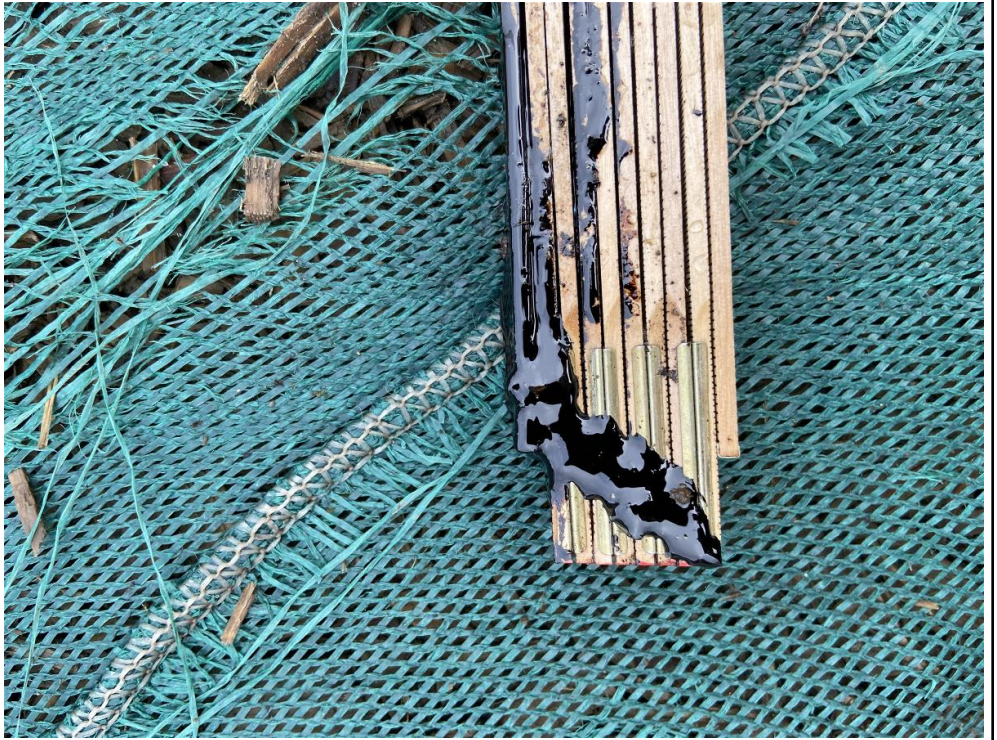
APPENDIX B
Photographic Log –
January 2023 UST
Assessment

Client:	Confederated Tribes of the Grande Ronde Community of Oregon	Project:	Underground Storage Tank Assessment
Site Name:	Former Blue Heron Paper Company	Site Location:	419-427 Main Street, Oregon City, Oregon 97045
Photograph ID: 1			
Photo Location: Building 16			
Direction: Southwest			
Survey Date: 1/10/2023			
Comments: Suspected building 16 underground storage tank (UST) location. Pink paint delineates geophysical survey, orange paint delineates concrete saw cut lines.			
Photograph ID: 2			
Photo Location: Building 21 (Former Millwright Shop)			
Direction: Northeast			
Survey Date: 1/10/2023			
Comments: Suspected building 21 UST locations. Pink paint delineates geophysical survey, orange paint delineates concrete saw cut lines.			

Client:	Confederated Tribes of the Grande Ronde Community of Oregon	Project:	Underground Storage Tank Assessment
Site Name:	Former Blue Heron Paper Company	Site Location:	419-427 Main Street, Oregon City, Oregon 97045
Photograph ID: 3			
Photo Location: Building 16			
Direction: Northwest			
Survey Date: 1/17/2023			
Comments: Suspected building 16 UST location after concrete sawcutting and removal. Concrete thickness approx. 12 inches.			
Photograph ID: 4			
Photo Location: Building 16			
Direction: --			
Survey Date: 1/17/2023			
Comments: Test pit advanced to approx. five feet below ground surface (bgs). No UST present. Gravelly fill material underlying concrete extends to 4.5 feet bgs. Poorly graded fine sand underlying gravel fill material.			

Client:	Confederated Tribes of the Grande Ronde Community of Oregon	Project:	Underground Storage Tank Assessment
Site Name:	Former Blue Heron Paper Company	Site Location:	419-427 Main Street, Oregon City, Oregon 97045
Photograph ID: 5			
Photo Location: Building 21 (Former Millwright Shop)			
Direction: Northwest			
Survey Date: 1/17/2023			
Comments: Suspected building 21 UST locations during concrete removal. Concrete thickness approx. eight inches.			
Photograph ID: 6			
Photo Location: Building 21 (Former Millwright Shop)			
Direction: Southwest			
Survey Date: 1/17/2023			
Comments: Building 21 USTs consist of two 12,500-gallon capacity buried rail cars.			

Client:	Confederated Tribes of the Grande Ronde Community of Oregon	Project:	Underground Storage Tank Assessment
Site Name:	Former Blue Heron Paper Company	Site Location:	419-427 Main Street, Oregon City, Oregon 97045
Photograph ID: 7			
Photo Location: Building 21 (Former Millwright Shop)			
Direction: Northwest			
Survey Date: 1/17/2023			
Comments: Additional view of buried railcar USTs showing open manholes in the center of each tank.			
Photograph ID: 8			
Photo Location: Building 21 (Former Millwright Shop)			
Direction: --			
Survey Date: 1/17/2023			
Comments: View inside the western UST. Both USTs contained a combination of water and viscous heavy oil (likely Bunker C oil).			

Client:	Confederated Tribes of the Grande Ronde Community of Oregon	Project:	Underground Storage Tank Assessment
Site Name:	Former Blue Heron Paper Company	Site Location:	419-427 Main Street, Oregon City, Oregon 97045
Photograph ID: 9			
Photo Location: Building 21 (Former Millwright Shop)			
Direction: --			
Survey Date: 1/17/2023			
Comments: Close-up of heavy oil within USTs.			
Photograph ID: 10			
Photo Location: Building 21 (Former Millwright Shop)			
Direction: Northwest			
Survey Date: 8/16/2023			
Comments: Backfilled concrete in building 21 UST location after UST assessment activities.			

APPENDIX C

Inadvertent Discovery Plan



The Confederated Tribes of Grand Ronde Tribal Historic Preservation Office

Cultural Monitoring Summary for the Inadvertent Discovery of Ancestral Remains and Cultural Materials

The following steps summarizing protocol that will be followed by all crew members in the event of a human remains/burial items or cultural materials discovery. Historic materials associated with the Blue Heron Paper Mill will be exempt from this process, unless the finds are unique and notably different from what is already known to be present at the facility.

STEP 1: Stop Work.

If any employee, contractor, or subcontractor believes that they have uncovered a cultural resource at any point in the project, all work must stop immediately. Notify the appropriate party(ies). Leave the surrounding area untouched, and provide a secured and protected buffer no less than 30 meters (100 ft.) around the discovery. The discovery location must be secured at all times by a temporary fence or other onsite security. Any temporary fence should not further impact the ground.

STEP 2: Notify the Cultural Resources Monitor.

If there is a Cultural Resources Monitor for the project, notify that person. If there is a monitoring plan in place, the monitor will follow the outlined procedure.

STEP 3: Notify the Project Manager.

The Project Manager or applicable staff will make all calls and necessary notifications. If a Cultural Resources Monitor is on the project, the Project Manager may delegate the responsibility of notification to the Cultural Resources Monitor.

If human remains are encountered, treat them with dignity and respect at all times. Cover the remains with a new clean tarp for temporary protection and to shield them from being photographed. **Do not call 911 or speak with the media. Do not take pictures. DO NOT CONTINUE DISTURBANCE!**

Project Manager's Responsibilities:

- **Protect Find:** The Project Manager is responsible for taking appropriate steps to protect the discovery site. All work will stop in an area adequate to provide for the total security, protection, and integrity of the resource. Vehicles, equipment, and unauthorized personnel will not be permitted to traverse the discovery site. Work in the immediate area will not resume until treatment of the discovery has been completed following provisions for treating cultural material as set forth in this document.
- **Direct Construction Elsewhere On-site:** The Project Manager may direct construction away from cultural resources to work in other areas if a cultural resources monitor is available to monitor said activities. .
- **Identify Find:** A professional archaeologist will examine the find to determine if it is archaeological.
 - If the discovery is determined to not be archaeological, work may proceed with no further delay.
 - If the discovery is determined to be archaeological, the Project Manager will continue with notification to the Historic Preservation Office.
 - If the discovery is human remains, the Project Manager will ensure that law enforcement is notified, and then notify the Historic Preservation Office.

Special Procedures for Human Remains

Any human skeletal remains, regardless of antiquity or ethnic origin, will at all times be treated with dignity and respect. Cover the remains with a new clean tarp for temporary protection and to shield them from being photographed. **Do not call 911 or speak with the media. Do not take pictures.**
Do not place ancestral human remains in plastic bags

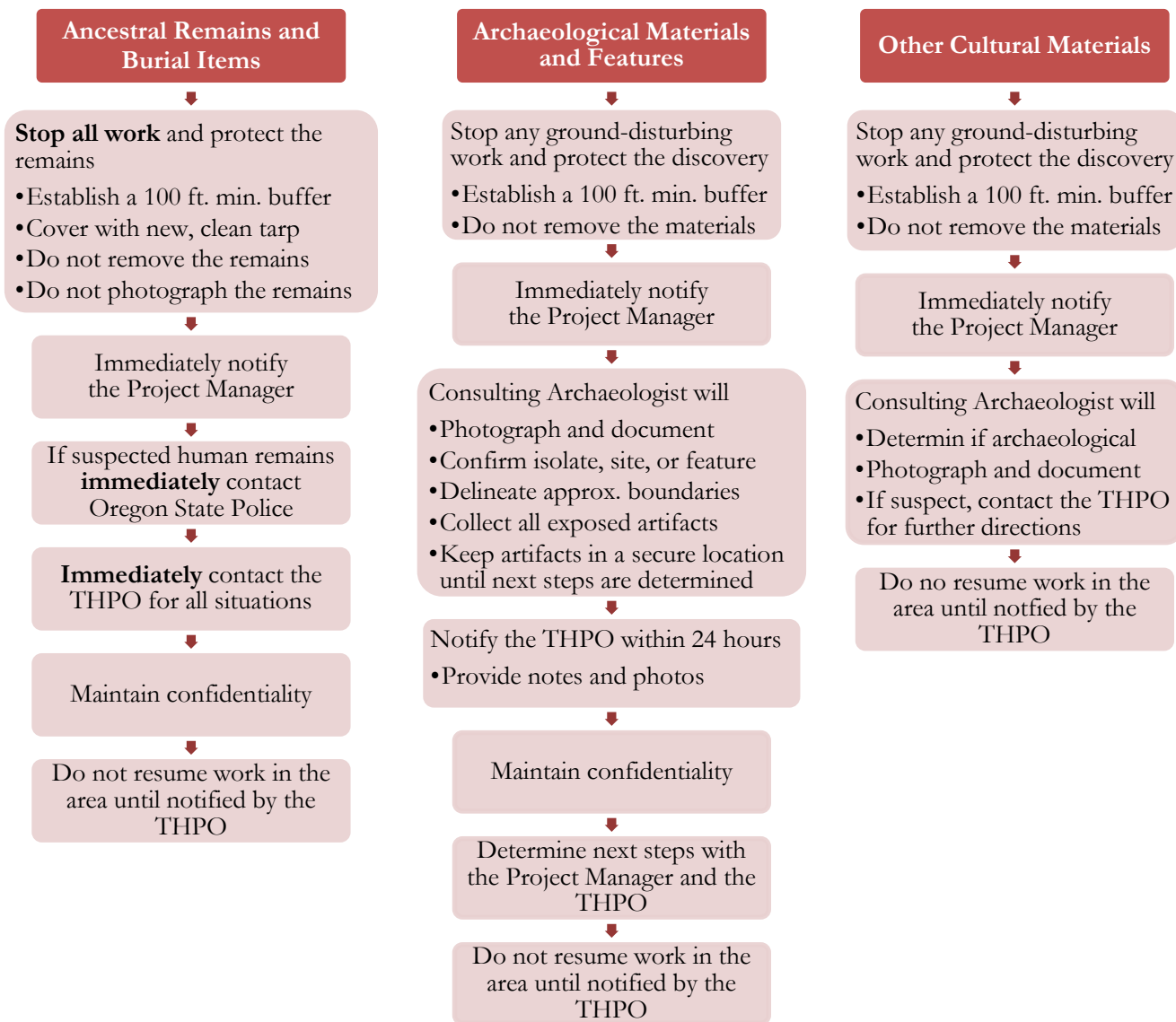


The Confederated Tribes of Grand Ronde Tribal Historic Preservation Office

Cultural Monitoring Summary for the Inadvertent Discovery of Ancestral Remains and Cultural Materials

Synthesis of Monitoring Protocol

The following flowchart summarizing protocol that will be followed by the monitoring archaeologist in the event of a human remains/burial items or cultural materials discovery. Historic materials associated with the Blue Heron Paper Mill will be exempt from this process, unless the finds are unique and notably different from what is already known to be present at the facility.



Contacts

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Oregon State Police	Lt. Craig Heuberger:	503-508-0779
Tribal Police	Chief Jake McNight	(503) 879-1474