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# Technical Guidance Manual for the Implementation of the Hawai`i State Contingency Plan

## SECTION 9

### SUPPLEMENTAL GUIDANCE FOR SELECT CONTAMINANTS OF CONCERN



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## ACRONYMS AND ABBREVIATIONS

|                          |  |
|--------------------------|--|
| <b>2,4,5-T</b>           | 2,4,5-trichlorophenoxyacetic acid  |
| <b>2,4,5-TP</b>          | 2,4,5-trichlorophenoxypropionic acid   |
| <b>µm</b>                | micron   |
| <b>API</b>               | American Petroleum Institute   |
| <b>ATSDR</b>             | Agency for Toxic Substances and Disease Registry                               |
| <b>BTEX</b>              | Benzene, Toluene, Ethylbenzene, and Total Xylenes                              |
| <b>CalEPA</b>            | California Environmental Protection Agency                                     |
| <b>cm<sup>3</sup>/g</b>  | cubic centimeters per gram   |
| <b>D-D</b>               | A mixture of 1,2-dichloropropane; 1,3-dichloropropene; and 2,3-dichloropropene |
| <b>DBCP</b>              | 1,2-dibromo-3-chloropropane  |
| <b>DDT</b>               | dichloro-diphenyl-trichloroethane  |
| <b>EAL</b>               | Environmental Action Level   |
| <b>EDB</b>               | 1,2-dibromoethane  |
| <b>EHE</b>               | Environmental Hazard Evaluation  |
| <b>GC/MS</b>             | Gas Chromatography/Mass Spectrometry   |
| <b>HDOA</b>              | Hawai'i Department of Agriculture  |
| <b>HDOH</b>              | Hawai'i Department of Health   |
| <b>HEER</b>              | Hazard Evaluation and Emergency Response                                       |
| <b>Koc</b>               | organic carbon sorption coefficient  |
| <b>m<sup>3</sup>/mol</b> | cubic meters per mole  |
| <b>MADEP</b>             | Massachusetts Department of Environmental Protection                           |
| <b>mg/kg</b>             | milligrams per kilogram  |
| <b>MSMA</b>              | monosodium methane arsenate  |
| <b>MTBE</b>              | methyl tertiary butyl ether  |
| <b>NEIWPCC</b>           | New England Interstate Water Pollution Control Commission                      |
| <b>NOAA</b>              | National Oceanic and Atmospheric Administration                                |
| <b>NTP</b>               | National Toxicology Program  |
| <b>PCB</b>               | Polychlorinated Biphenyls  |
| <b>PCP</b>               | Pentachlorophenol  |
| <b>RSL</b>               | Regional Screening Level   |
| <b>SVOC</b>              | Semivolatile Organic Compound  |
| <b>TCP</b>               | 1,2,3-trichloropropane   |
| <b>TEF</b>               | Toxicity Equivalence Factor  |
| <b>Telone</b>            | 1,3-dichloropropene  |
| <b>TEQ</b>               | Toxic Equivalency  |
| <b>TGM</b>               | Technical Guidance Manual  |
| <b>TPH</b>               | Total Petroleum Hydrocarbons   |
| <b>TVH</b>               | Total Volatile Hydrocarbons  |
| <b>USDA</b>              | United States Department of Agriculture  |
| <b>USEPA</b>             | United States Environmental Protection Agency                                  |

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**Section 9**  
**Supplemental Guidance for**  
**Select Contaminants of Concern**  
*Acronyms and Abbreviations*

**VOC**  
**WHO**

Volatile Organic Compound  
World Health Organization



## 9.0 SUPPLEMENTAL GUIDANCE FOR SELECT CONTAMINANTS OF CONCERN

This section presents guidance for select contaminants frequently encountered in Hawai'i, including target pesticides at former agricultural facilities/fields and of target petroleum-related contaminants. Additional guidance on these contaminants is provided in the Summer 2008 edition (updated October 2008) of the Hawai'i Department of Health (HDOH) document *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater* (Environmental Hazard Evaluation [EHE] guidance [HDOH, 2008]). In the EHE guidance, refer specifically to:

- Volume 1, Chapter 2, Subsection 2.6: Contaminants of Potential Concern at Petroleum Release Sites.
- Volume 1, Chapter 2, Subsection 2.7: Contaminants of Potential Concern for Former Agricultural Lands.
- Volume 1, Chapter 4: Advanced Environmental Hazard Evaluations.
- Volume 2, Appendix 9: Supplemental Technical Guidance Documents:
  - Tier 2 Soil Action Levels for Arsenic (HDOH, 2008).
  - Tier 2 Soil Action Levels for Toxic Equivalency (TEQ) Dioxins (HDOH, 2008).
  - Pesticides in Former Agricultural Lands and Related Areas (HDOH, 2007d).
  - Long-Term Management of Petroleum-Contaminated Soil and Groundwater (HDOH, 2007c).
  - Advisory on Methane Assessment and Common Remedies at Schools Sites (CalEPA, 2005b).

Expanded discussion of these contaminants will be added to the Technical Guidance Manual (TGM) in the future. In the interim, please refer to the EHE guidance cited above for additional information on these groups of contaminants.