



DIVISION OF UNDERGROUND STORAGE TANKS

INITIAL SCREENING LEVELS (ISLs)

Control Number UST-G-3-ISLs-080522

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Initial Screening Levels

SIGNATURES:

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REVISION HISTORY TABLE

| Revision Number | Date | Brief Summary of Change |
|------------------------|-------------|---|
| 0 | 07/01/2005 | Issuance of Guidance: UST System Closure Assessment Guidelines |
| 1 | 12/01/2005 | Revision of UST System Closure Assessment Guidelines |
| 2 | 09/01/2006 | Revision of UST System Closure Assessment Guidelines |
| 3 | 08/05/2022 | Revision of ISLs to: include EDB and EDC, correct spelling of Dibenz(a,h)anthracene, and reference surface water screening levels |



INITIAL SCREENING LEVELS

| CHEMICALS OF CONCERN | Subsurface Soil | | Groundwater | |
|--------------------------------|-------------------------|------------------------|---|--------------------------------------|
| | SOIL Residential* (ppm) | SOIL Commercial* (ppm) | GROUNDWATER Drinking Water or Unknown (ppm) | GROUNDWATER Non-Drinking Water (ppm) |
| ORGANICS | [mg/kg] | [mg/kg] | [mg/l] | [mg/l] |
| **EPH | 500 | 500 | NA | NA |
| Benzene | 0.0729 | 3.80 | 0.005 | 0.072 |
| Toluene | 6.78 | 62.2 | 1 | 4.31 |
| Ethylbenzene | 143 | 1310 | 0.7 | 10.3 |
| Xylenes (Total) | 9.60 | 88.0 | 10 | 3.57 |
| Methyl-tert-butyl-ether (MtBE) | 39.6 | 364 | 0.02 | 175 |
| Acenaphthene | NA | NA | 0.939 | NA |
| Acenaphthylene | NA | NA | 0.939 | NA |
| Anthracene | NA | NA | 0.0434 | NA |
| Benzo(a)anthracene | NA | NA | 0.00117 | NA |
| Benzo(a)pyrene | NA | NA | 0.0002 | NA |
| Benzo(b)fluoranthene | NA | NA | 0.00117 | NA |
| Benzo(g,h,i)perylene | NA | NA | 0.0007 | NA |
| Benzo(k)fluoranthene | NA | NA | 0.0008 | NA |
| Chrysene | NA | NA | 0.0016 | NA |
| Dibenzo(a,h)anthracene | NA | NA | 0.000117 | NA |
| Ethylene Dibromide (EDB) | NA 0.18 | NA 1.05 | 0.00005 | NA 0.0855 |
| Ethylene Dichloride (EDC) | NA 0.00755 | NA 0.0166 | 0.005 | NA 0.0267 |
| Fluoranthene | NA | NA | 0.206 | NA |
| Fluorene | NA | NA | 0.626 | NA |
| Indeno(1,2,3-c,d)pyrene | NA | NA | 0.00117 | NA |
| Naphthalene | 135 | 403 | 0.02 | 9.81 |
| Phenanthrene | NA | NA | 0.469 | NA |
| Pyrene | NA | NA | 0.135 | NA |
| METALS | - | - | [mg/l] | [mg/l] |
| Cadmium | NA | NA | 0.005 | NA |
| Chromium | NA | NA | 0.1 | NA |
| Lead | NA | NA | 0.015 | NA |
| Silver | NA | NA | 0.1 | NA |
| Zinc | NA | NA | 5 | NA |

NA= Not Applicable



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Initial Screening Levels

- * Based on ~~residential or commercial~~ current and reasonable future use, residential or commercial, of the property or properties. ~~If soil contamination also exists on an adjacent property, then a residential/commercial use determination shall also be performed on the adjacent property.~~
- ** EPH is used as a soil screening mechanism for the potential installation of a monitoring well only.
For surface water please refer to General Water Quality Criteria Rule 0400-40-03-.03

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