

Table 6-3
Relative Mobility of Chemical Analytical Classes and Representative Chemicals

| Chemical Analyte Class | Representative Chemicals¹ | Volatility | Solubility | Sorption Potential | Bioaccumulation Potential |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------|----------------------------------|
| VOCs, including PPO compounds | 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethene, 1,2-Dibromoethane (EDB), Acetone, Benzene, Carbon disulfide, Diisopropyl ether, Ethylbenzene, Freon 113, Methyl ethyl ketone (MEK), Methyl isobutyl ketone (MIBK), Methyl cyclopentane, Methylene chloride, Nonanal, Propanal, Tetrachloroethylene, Tetrahydrofuran, Toluene, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane, Trichloroethylene, Acetonitrile, Acrolein, Ethylene glycol, Isopropanol, Tert-butyl alcohol (TBA) | High | Medium to High | Low to Medium | Low |
| SVOCs | Bis(2-chloroethyl)ether, Bis(2-ethylhexyl)phthalate, Diethylphthalate, N-nitrosodiethylamine, N-Nitrosodipropylamine, N-Nitrosopyrrolidine | Low to Medium | Low | Medium to High | Low to Medium |
| PAHs | Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Naphthalene | Low to Medium | Low | High | Low to Medium |
| Herbicides | 2,4-dichlorophenoxybutyric acid (2,4-DB), Dalapon, Dichlorprop, MCPA, MCPP | Low | Low | Medium to High | Medium to High |
| Pesticides | 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-Chlordane, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Heptachlor, Hexachlorobenzene, Kepone, Methoxychlor | Low | Low | High | High |
| Dioxins/furans | Polychlorinated dioxins (PCDD), polychlorinated dibenzofurans (PCDF) | Low | Low | High | High |
| PCBs | Aroclor 1260, PCB Congeners | Low | Low | High | High |

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|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------|----------------------------------|
| Metals | Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, and Zinc | Low | Low to Medium | Medium to High | Low to Medium |
| Cyanide | Amenable and total cyanide (Hydrogen Cyanide) | High | High | Low | Low |
| Sulfide | Sulfide (Hydrogen Sulfide) | High | Low | Low | Low |

¹ List of representative chemicals presented above does not reflect all compounds detected in groundwater. Refer to Appendix G of this RI Report for a comprehensive listing of compounds detected in groundwater.