

**NDEP Draft Guidelines for Discovery Events (Soil RCs)**

**Appendix A1--Reportable Concentrations for common soil contaminants**

Version: 01/28/2009

<b>Contaminant Class</b>	<b>Reportable Concentration</b>	<b>Source</b>	<b>Comments</b>
<b>Contaminant</b>	<b>(mg/kg)</b>		
<i>Total Petroleum Hydrocarbons</i>	1.0E+02	NDEP derived concentration	The TPH Reportable Concentration is only applicable to petroleum releases or the discovery of soil contamination that was likely the result of a petroleum release. Other substances, such as vegetable oil, bio-diesel, or vegetable based hydraulic fluids with no petroleum component, are only regulated based on threats to waters of the State, as determined by gross contamination, regardless of whether laboratory samples show a TPH signature.
<i>Common VOCs</i>			Where the Reportable Concentration of a contaminant is based on the Soil Screening Level, a facility owner/operator may <b>not</b> make additional considerations about depth to groundwater or the presence of confining layers when determining whether the levels of a contaminant discovered in soil are reportable; the Reportable Concentration must be used as is.
Benzene	3.0E-02	Soil Screening Level, DAF 20	
Carbon Tetrachloride	7.0E-02	Soil Screening Level, DAF 20	
Ethylbenzene	5.7E+00	EPA Regional Screening Level, Residential Soil	
Methyl tert-Butyl Ether (MTBE)	1.6E-01	NDEP calculated SSL, DAF 20	
Toluene	1.2E+01	Soil Screening Level, DAF 20	
Tetrachloroethylene (PCE)	6.0E-02	Soil Screening Level, DAF 20	
Trichloroethylene (TCE)	6.0E-02	Soil Screening Level, DAF 20	
Vinyl Chloride	1.0E-02	Soil Screening Level, DAF 20	
Xylene, Mixture	2.1E+02	Soil Screening Level, DAF 20	
<i>PAHs</i>			
Benz[a]anthracene	1.5E-01	EPA Regional Screening Level, Residential Soil	
Benzo[a]pyrene	1.5E-02	EPA Regional Screening Level, Residential Soil	
Naphthalene	3.9E+00	EPA Regional Screening Level, Residential Soil	A facility owner/operator is not required to make notification if metal concentrations are within an appropriately determined background, irrespective of their discovery above the Reportable Concentration.
<i>Metals</i>			
Arsenic, inorganic	3.9E-01	EPA Regional Screening Level, Residential Soil	
Beryllium and compounds	6.3E+01	Soil Screening Level, DAF 20	
Cadmium	8.0E+00	Soil Screening Level, DAF 20	
Chromium, Total	3.8E+01	Soil Screening Level, DAF 20	
Cobalt	2.3E+01	EPA Regional Screening Level, Residential Soil	
Copper	3.1E+03	EPA Regional Screening Level, Residential Soil	
Lead and Compounds	4.0E+02	EPA Regional Screening Level, Residential Soil	
Manganese	1.8E+03	EPA Regional Screening Level, Residential Soil	
Mercury (elemental)	6.7E+00	EPA Regional Screening Level, Residential Soil	
Selenium	5.0E+00	Soil Screening Level, DAF 20	
Silver	3.4E+01	Soil Screening Level, DAF 20	
Zinc (Metallic)	1.2E+04	Soil Screening Level, DAF 20	
<i>Miscellaneous</i>			The selection of these miscellaneous contaminants for this table does not signify that a facility owner/operator must sample for these or that sampling should be limited to these.
Ethylene Glycol	1.2E+05	EPA Regional Screening Level, Residential Soil	
Perchlorate and Perchlorate Salts	5.5E+01	EPA Regional Screening Level, Residential Soil	
Propylene Glycol	1.2E+06	EPA Regional Screening Level, Residential Soil	