

Instructions for: **Soil Medium Volatiles (Cat # PT-VOAM-SOIL)**

SCOPE AND APPLICATION

Wibby Environmental's SOIL Medium Level Volatiles Proficiency Testing Standard is designed to be used with applicable USEPA and other promulgated method. You should be familiar with the method(s) before analyzing the standard. If you have any questions about the use of these standards, please contact Wibby Environmental Customer Service at 1-866-WibbyPT (866-942-2978).

SAMPLE PREPARATION AND ANALYSIS

1. For best results, the PT standard should be refrigerated and then brought to room temperature (near 20°C) when used.
2. The Medium Level Volatiles in Soil standard has been provided as 5.00 g of soil containing the Volatiles of interest preserved with 5.00 mL of purge and trap grade Methanol in a flame sealed ampule.
3. Carefully open the ampule containing the standard by snapping off the top of the ampule at the narrow part of the neck.
4. Following your normal procedures for the analysis of a medium level VOAs in Soil sample that has been preserved with methanol, remove an aliquot from the vial for preparation and analysis.
5. The remainder of the methanol extract should be transferred to an appropriate storage vial and stored at 4°C.

REPORTING RESULTS

1. Report results to three significant figures.
2. For the purposes of reporting results, the percent moisture of the Medium Level Volatiles in Soil standard is 0% and the sample weight is 5.00 g. Report all results on a dry weight basis.

3. Report your results on line at www.wibby.com. Click on the "Online Data Entry" link or the "PT Manage" link.
4. You may also report your results using the Data Reporting Sheets enclosed with your standards. FAX your results to Wibby Environmental at 866-283-0269 or mail the results to Wibby Environmental, 6390 Joyce Drive, #100, Golden, CO, 80403.
5. Wibby Environmental must receive all results prior to the study closing date shown on the Data Reporting Sheets.

SAFETY

These standards are designed for use by laboratory professionals who are familiar with handling environmental reference materials as well as hazardous materials. If you have any questions about the safe handling of these standards or require a Material Safety Data Sheet (MSDS,) please contact Wibby Environmental at 1-866-WibbyPT (866-942-2978).

QUESTIONS?

If you have any questions regarding these standards or reporting requirements, please call Wibby Environmental at 1-866-WibbyPT (866-942-2978).

Soil / Hazardous Waste PT Concentration Ranges and PTRLs

Definitions:

PTRL

NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRLs shown. (REF: NELAC PT FOT Tables)

NA

Not Applicable (NA) has been applied to analytes where a PTRL is not applicable and to state specific analytes that have not had a PTRL determined by the applicable accrediting agency.

Medium Level Volatiles (PT-VOAM-SOIL)

NELAC Code	Analyte	Units	Concentration Range	PTRL
4315	Acetone	µg/kg	4000 - 20000	929
4375	Benzene	µg/kg	1000 - 10000	656
4395	Bromodichloromethane	µg/kg	1000 - 10000	479
4400	Bromoform	µg/kg	1000 - 10000	415
4410	2-Butanone (MEK)	µg/kg	4000 - 20000	808
4455	Carbon tetrachloride	µg/kg	1000 - 10000	480
4475	Chlorobenzene	µg/kg	1000 - 10000	648
4575	Chlorodibromomethane	µg/kg	1000 - 10000	642
4505	Chloroform	µg/kg	1000 - 10000	550
4570	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	2000 - 10000	1200
4585	1,2-Dibromoethane(EDB)	µg/kg	2000 - 10000	1200
4595	Dibromomethane	µg/kg	2000 - 10000	1200
4610	1,2-Dichlorobenzene	µg/kg	1000 - 10000	618
4615	1,3-Dichlorobenzene	µg/kg	1000 - 10000	500
4620	1,4-Dichlorobenzene	µg/kg	1000 - 10000	596
4630	1,1-Dichloroethane	µg/kg	1000 - 10000	676
4635	1,2-Dichloroethane	µg/kg	1500 - 10000	663
4640	1,1-Dichloroethene	µg/kg	2000 - 10000	1000
4645	cis-1,2-Dichloroethene	µg/kg	2000 - 10000	1200
4700	trans-1,2-Dichloroethene	µg/kg	2000 - 10000	1200
4655	1,2-Dichloropropane	µg/kg	2000 - 10000	1400
4765	Ethylbenzene	µg/kg	1000 - 10000	697
4860	2-Hexanone	µg/kg	4000 - 20000	2000
4975	Methylene chloride (Dichloromethane)	µg/kg	1000 - 10000	435
5000	Methyl-tert-butyl ether (MTBE)	µg/kg	2000 - 10000	1400
4995	4-Methyl-2-pentanone (MIBK)	µg/kg	4000 - 20000	1630
5005	Naphthalene	µg/kg	2000 - 10000	721
5015	Nitrobenzene	µg/kg	1500 - 15000	150
5100	Styrene	µg/kg	2000 - 10000	1200
5105	1,1,1,2-Tetrachloroethane	µg/kg	1000 - 10000	520
5110	1,1,2,2-Tetrachloroethane	µg/kg	1500 - 10000	455
5115	Tetrachloroethene	µg/kg	1000 - 10000	543
5140	Toluene	µg/kg	1000 - 10000	665
5155	1,2,4-Trichlorobenzene	µg/kg	2000 - 10000	1200
5160	1,1,1-Trichloroethane	µg/kg	1000 - 10000	530
5165	1,1,2-Trichloroethane	µg/kg	1000 - 10000	732
5170	Trichloroethene	µg/kg	1000 - 10000	638
5180	1,2,3-Trichloropropane	µg/kg	1500 - 10000	407
5260	Xylenes, total	µg/kg	2000 - 20000	931
Additional State Specific Analytes				
4320	Acetonitrile	µg/kg	5000 - 15000	NA

Soil / Hazardous Waste PT Concentration Ranges and PTRLs

Definitions:

PTRL

NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRLs shown. (REF: NELAC PT FOT Tables)

NA

Not Applicable (NA) has been applied to analytes where a PTRL is not applicable and to state specific analytes that have not had a PTRL determined by the applicable accrediting agency.

Medium Level Volatiles (PT-VOAM-SOIL) cont'd

NELAC Code	Analyte	Units	Concentration Range	PTRL
Additional State Specific Analytes cont'd				
4325	Acrolein	µg/kg	1000 - 15000	NA
4340	Acrylonitrile	µg/kg	1000 - 10000	NA
4385	Bromobenzene	µg/kg	2000 - 10000	500
4390	Bromochloromethane	µg/kg	1000 - 10000	NA
4950	Bromomethane	µg/kg	2000 - 10000	500
4435	n-Butylbenzene	µg/kg	1000 - 10000	NA
4440	sec-Butylbenzene	µg/kg	1000 - 10000	NA
4445	tert-Butylbenzene	µg/kg	1000 - 10000	NA
4450	Carbon disulfide	µg/kg	1000 - 15000	NA
4465	Chloroacetaldehyde	µg/kg	1000 - 15000	NA
4485	Chloroethane	µg/kg	2000 - 10000	500
5765	bis(2-Chloroethyl)ether	µg/kg	1000 - 15000	NA
5760	bis(2-Chloroethoxy)methane	µg/kg	1000 - 15000	NA
5780	bis(2-Chloroisopropyl)ether	µg/kg	1000 - 15000	NA
4500	2-Chloroethylvinylether	µg/kg	1000 - 15000	NA
4960	Chloromethane	µg/kg	2000 - 10000	500
4535	2-Chlorotoluene	µg/kg	1000 - 10000	NA
4540	4-Chlorotoluene	µg/kg	1000 - 10000	NA
4625	Dichlorodifluoromethane	µg/kg	2000 - 10000	500
4660	1,3-Dichloropropane	µg/kg	1000 - 10000	NA
4665	2,2-Dichloropropane	µg/kg	1000 - 10000	NA
4670	1,1-Dichloropropene	µg/kg	1000 - 10000	NA
4680	cis-1,3-Dichloropropene	µg/kg	2000 - 10000	500
4685	trans-1,3-Dichloropropene	µg/kg	2000 - 10000	500
9375	DIPE	µg/kg	1000 - 10000	NA
5185	Freon 113	µg/kg	1000 - 15000	NA
4835	Hexachlorobutadiene	µg/kg	1000 - 15000	NA
4840	Hexachloroethane	µg/kg	1000 - 15000	NA
4900	Isopropylbenzene	µg/kg	2000 - 10000	500
4910	p-Isopropyltoluene	µg/kg	1000 - 10000	NA
5090	n-Propylbenzene	µg/kg	1000 - 15000	NA
4370	TAME	µg/kg	1000 - 10000	NA
5150	1,2,3-Trichlorobenzene	µg/kg	1000 - 10000	NA
5175	Trichlorofluoromethane	µg/kg	2000 - 10000	500
5210	1,2,4-Trimethylbenzene	µg/kg	1000 - 10000	NA
5215	1,3,5-Trimethylbenzene	µg/kg	1000 - 10000	NA
5225	Vinyl acetate	µg/kg	1000 - 15000	NA
5235	Vinyl chloride	µg/kg	2000 - 10000	500
5250	o-Xylene	µg/kg	2000 - 20000	NA
5240	m+p-Xylene	µg/kg	2000 - 20000	NA