

**Instructions for:  
SOIL/HW TCLP BTEX (Cat # PT-TCLPBTEX-SOIL)**

**SCOPE AND APPLICATION**

Wibby Environmental's SOIL/HW TCLP BTEX Proficiency Testing Standard is designed to be extracted using USEPA Method 1311 followed by analysis for the Volatile Organics Compounds. This PT standard does not contain Pesticides, Herbicides or BNAs specified in Method 1311. If you have any questions about the use of this standard, please contact Wibby Environmental Customer Service at 303-940-0033.

**SAMPLE PREPARATION AND ANALYSIS**

1. **Preliminary evaluations (EPA Method 1311, Section 7.1).** You do not need to complete the preliminary evaluations of the Wibby Environmental TCLP BTEX standard. The results of these tests are:
  - a. Percent solids = 100%
  - b. Particle size reduction = not needed
  - c. Required extraction fluid = fluid #1
2. For best results, the PT standard spiking concentrate should be stored at 4°C and warmed to room temperature (near 20°C) prior to use.
3. The SOIL/HW TCLP BTEX standard includes two separate containers, a jar containing Blank Soil Matrix and a 2mL flame sealed ampule containing the TCLP BTEX spiking concentrate.
4. Open the Blank Soil Matrix jar and transfer 20 g of the matrix to your ZHE extraction vessel.
5. Carefully break the top of the spiking concentrate ampule and add 200 uL (microliters) of the concentrate using a gastight syringe onto the Blank Soil Matrix in the TCLP Extraction vessel.
6. As specified in Method 1311 add 400 mLs (20X the sample size of 20 g) of ZHE extraction fluid #1 into the extraction vessel.
7. The standard is now ready for extraction by Method 1311 and analysis per the selected method(s).

**NOTE:** If your normal procedure for TCLP BTEX uses a sample size that differs from 20 g adjust the amount of Blank Soil Matrix, TCLP BTEX spiking concentrate and TCLP Extraction Fluid as appropriate. For example, if your method calls for the extraction of a 25 g sample, use 25 g of Blank Soil Matrix, 250 uL (microliters) of TCLP BTEX spiking concentrate and 500 mL of TCLP Extraction Fluid #1.

**REPORTING RESULTS**

1. Report all results on line at [www.wibby.com](http://www.wibby.com). Click on the "Online data entry link" and follow the instructions to enter your results. As an alternative, you may enter your results using the Data Reporting Sheets enclosed with your standards.
2. Report your results to three significant figures in mg/L of TCLP extraction fluid.
3. FAX your results to Wibby Environmental at 303-940-0043. You may also mail your results to Wibby Environmental, 6390 Joyce Drive, #100, Golden, CO, 80403. All results must be received by Wibby Environmental 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 303-940-0033.

**QUESTIONS?**

If you have any questions regarding these standards or reporting requirements, please call Wibby Environmental at 303-940-0033.

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## 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.

### TCLP BTEX (PT-TCLPBTEX-SOIL)

NELAC Code	Analyte	Units	Concentration Range	PTRL
<b>Additional State Specific Analytes</b>				
4375	Benzene	µg/L	50.0 - 1000	NA
4765	Ethylbenzene	µg/L	50.0 - 1000	NA
5140	Toluene	µg/L	50.0 - 1000	NA
5260	Xylenes, total	µg/L	50.0 - 1000	NA