

## Instructions for: **Soil PAHs-HPLC (Cat # PT-PAH-SOIL)**

### **SCOPE AND APPLICATION**

Wibby Environmental's Soil PAHs-HPLC Proficiency Testing Standard is designed to be used for USEPA Methods for detecting low level concentrations of PAHs. 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 standards should be refrigerated and then brought to room temperature (near 20°C) when used.
2. The PAHs-HPLC in Soil standard is packaged in two vials. Each vial contains 30.0 ± 0.2 g of standard.
3. Open one vial and quantitatively transfer the *entire* contents of the vial to your extraction apparatus. Rinse the vial thoroughly with extraction solvent and transfer the solvent to the extraction apparatus.
4. Follow your normal procedures for extraction and analysis of a sample for PAHs-HPLC in Soil.

**NOTE:** A second identical vial containing 30.0 ± 0.2 g of PAHs-HPLC in Soil standard has been provided as a backup in the event you experience problems with the extraction or analysis of the initial vial. Store the second vial at 4°C.

### **REPORTING RESULTS**

1. For the purposes of reporting results, the percent moisture of the PT standard is 0% and the sample weight is 30 g. Report all results in µg/kg on a dry weight basis
2. Report results to three significant figures.

3. Report all results online 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 submit your results using the Data Reporting Sheets enclosed with your standards by Fax to 866-283-0269.
4. 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 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).

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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.

PAHs (PT-PAH-SOIL)				
NELAC Code	Analyte	Units	Concentration Range	PTRL
5500	Acenaphthene	µg/kg	150 - 1000	15.0
5505	Acenaphthylene	µg/kg	150 - 1000	15.0
5555	Anthracene	µg/kg	100 - 1000	10.0
5575	Benzo(a)anthracene	µg/kg	50.0 - 500	5.00
5585	Benzo(b)fluoranthene	µg/kg	50.0 - 500	5.00
5600	Benzo(k)fluoranthene	µg/kg	50.0 - 500	5.00
5590	Benzo(g,h,i)perylene	µg/kg	100 - 1000	10.0
5580	Benzo(a)pyrene	µg/kg	50.0 - 500	5.00
5855	Chrysene	µg/kg	50.0 - 500	5.00
5895	Dibenz(a,h)anthracene	µg/kg	50.0 - 500	5.00
6265	Fluoranthene	µg/kg	100 - 1000	10.0
6270	Fluorene	µg/kg	50.0 - 500	5.00
6315	Indeno(1,2,3-cd)pyrene	µg/kg	50.0 - 500	5.00
5005	Naphthalene	µg/kg	150 - 1000	15.0
6615	Phenanthrene	µg/kg	100 - 1000	10.0
6665	Pyrene	µg/kg	50.0 - 500	5.00
Additional State Specific Analytes				
6385	2-Methylnaphthalene	µg/kg	50.0 - 500	NA