

## Instructions for: **Soil Congeners (cat # PT-CNG-SOIL)**

### **SCOPE AND APPLICATION**

Wibby Environmental's Soil Congeners Proficiency Testing Standard is designed to be used with USEPA and other promulgated methods. 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 standard should be refrigerated and then brought to room temperature (near 20°C) when used.
2. The Congeners in Soil standard is packaged in two vials. Each vial contains  $20.0 \pm 0.2$  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. The Congeners in Soil standard requires extraction prior to analysis. Follow your routine procedures for the determination of Congeners in a soil sample.

**NOTE:** A second identical vial containing  $20.0 \pm 0.2$  g of Congeners in Soil standard has been provided as a back up 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. Report results to three significant figures.
2. For the purposes of reporting results, the percent moisture of the Congeners in Soil standard is 0% and the sample weight is 20 g (the moisture that may be apparent in the vials is a result from the spiking solvent

only). Report all results on a dry weight basis.

3. Report your results on line at [www.wibby.com](http://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.

### Congeners (PT-CNG-SOIL)

NELAC Code	Analyte	Units	Concentration Range	PTRL
<b>Additional State Specific Analytes</b>				
9252	2,4,4'-Trichlorobiphenyl (PCB 28)	µg/kg	1.00 - 40.0	NA
8955	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)	µg/kg	1.00 - 40.0	NA
8965	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)	µg/kg	1.00 - 40.0	NA
8970	3,4,4',5-Tetrachlorobiphenyl (PCB 81)	µg/kg	1.00 - 40.0	NA
8980	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	µg/kg	1.00 - 40.0	NA
8985	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)	µg/kg	1.00 - 40.0	NA
9005	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)	µg/kg	1.00 - 40.0	NA
9011	2,3',4,4',5'-Pentachlorobiphenyl (PCB 118)	µg/kg	1.00 - 40.0	NA
8995	2,3',4,4',5-Pentachlorobiphenyl (PCB 123)	µg/kg	1.00 - 40.0	NA
9015	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)	µg/kg	1.00 - 40.0	NA
9025	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	µg/kg	1.00 - 40.0	NA
9040	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)	µg/kg	1.00 - 40.0	NA
9050	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)	µg/kg	1.00 - 40.0	NA
9045	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)	µg/kg	1.00 - 40.0	NA
9055	2,3',4,4',5,5'-Hexachlorobiphenyl (PCB 167)	µg/kg	1.00 - 40.0	NA
9060	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)	µg/kg	1.00 - 40.0	NA
9070	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	µg/kg	1.00 - 40.0	NA
9085	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)	µg/kg	1.00 - 40.0	NA
-	Total PCBs	µg/kg	1.00 - 720	NA