

**Instructions for:
Soil Flame Retardants (PDBE) and PCB Congeners
(cat # PT-PDBE-SOIL)**

SCOPE AND APPLICATION

Wibby Environmental's Soil Flame Retardants (PDBE) and PCB Congeners Proficiency Testing Standard is designed to be used with applicable 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 PT standard should be stored refrigerated ($\sim 4^{\circ}\text{C}$) and then brought to room temperature ($\sim 20^{\circ}\text{C}$) when used.
2. The Flame Retardants (PDBE) and PCB Congeners 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 Flame Retardants (PDBE) and PCB Congeners in Soil.

NOTE: A second identical vial containing 30.0 ± 0.2 g of Flame Retardants (PDBE) and PCB 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. For the purposes of reporting results, the percent moisture of the PT standard is 0% and the sample weight is 30 g.
2. Report all results in $\mu\text{g}/\text{kg}$ on a dry weight basis
3. Report results to three significant figures.
4. Report all results on line at 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.
5. 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.

PBDE/PCBs in Soil (PT-PBDE-SOIL)

NELAC Code	Analyte	Units	Concentration Range	PTRL
Additional State Specific Analytes				
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
8980	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)	µg/kg	1.00 - 40.0	NA
8995	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	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
9070	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	µg/kg	1.00 - 40.0	NA
9773	2,2',4,4'-Tetrabromodiphenyl ether (BDE-47)	µg/kg	1.00 - 100	NA
9571	2,2',4,4',5-Pentabromodiphenyl ether (BDE-99)	µg/kg	1.00 - 100	NA
9572	2,2',4,4',6-Pentabromodiphenyl ether (BDE-100)	µg/kg	1.00 - 100	NA
9569	2,2',4,4',5,5'-Hexabromodiphenyl ether (BDE-153)	µg/kg	1.00 - 100	NA
-	2,2',4,4',5,6'-Hexabromodiphenyl ether (BDE-154)	µg/kg	1.00 - 100	NA
-	2,2',3,4,4',5',6-Heptabromodiphenyl ether (BDE-183)	µg/kg	1.00 - 100	NA
-	2,3,3',4,4',5,5',6-Octabromodiphenyl ether (BDE-205)	µg/kg	1.00 - 100	NA
-	Decabromodiphenyl ether (BDE-209)	µg/kg	1.00 - 100	NA