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Instructions for: **Soil Total Sulfide (cat # PT-S2T-SOIL)**

SCOPE AND APPLICATION

Wibby Environmental's SOIL/HW Total Sulfide Proficiency Testing Standard is designed to be used with USEPA methods. The standard requires preparation per the procedure contained in Chapter Seven of SW 846 followed by analysis. 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. The SOIL/HW Total Sulfide standard includes two separate containers; a vial containing Blank Soil Matrix and a screw-top vial containing the Total Sulfide concentrate.
2. NOTE: The SOIL/HW Total Sulfide concentrate is preserved with NaOH and zinc acetate. The zinc acetate combines with the sulfide present to form zinc sulfide, which is a precipitate. Prior to removing an aliquot for analysis, vigorously shake the vial to ensure a representative aliquot is taken.
3. For best results, the Total Sulfide concentrate should be refrigerated and then brought to room temperature (near 20°C) when used.
4. Open the Blank Soil Matrix vial and transfer 10.0 g of the matrix into your reaction vessel.
5. Open the vial containing the Total Sulfide concentrate. Using a Class A pipette transfer exactly 10.0 mL of the PT concentrate onto the Blank Soil Matrix in the reaction vessel cell.
6. The standard is now ready for analysis per your normal procedures for the preparation and analysis of a sample for Total Sulfide in Soil.

REPORTING RESULTS

1. Report all results on line at www.wibby.com. Click on the "Online data entry link" and follow the instructions to enter your results.
2. Report results to three significant figures.
3. For the purposes of reporting results, the percent moisture of the Total Sulfide standard is 0% and the sample weight is 10 g. Report all results in mg/kg on a dry weight basis.
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. 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.

Total Sulfide (PT-S2T-SOIL)

NELAC Code	Analyte	Units	Concentration Range	PTRL
Additional State Specific Analytes				
2010	Total Sulfide	mg/kg	10.0 - 500	NA