	MA: 3225.1	Title: ICP-MS with Modified Preparation Method and Analysis of Soils with Additional Laboratory QC	
Method Source: SFAM01.1	Method: ICP-MS		
Matrix: Soil/Sediment			
Summary of Modification			
with additional modified LCS and Unless specifically modified by th	Matrix Spikes and an is modification, all a	mples by EPA Draft Method 3050C (see below) nalyze for the scheduled target analytes by ICP-MS. nalyses, Quality Control (QC), and reporting ent EPA agreement remain unchanged and in full	
I. Analyte Modifications Not applicab			
II. Calibration and QC Requirem	Not applicable		
Recovery limits do NOT aPrepare a Matrix Spike sp	dditional Laboratory pply to this LCS and piked at three times t	Control Sample (LCS) spiked at the CRQL. Percent no corrective actions are required. the levels specified in the SOW.	
 for this Modified Analysis Post-Digestion Spike require Post-Digestion Spike corr 	s (i.e., 15x the levels uirements apply to th	ne 5x Matrix Spike only.	
for this Modified AnalysisPost-Digestion Spike requ	s (i.e., 15x the levels uirements apply to the rective actions apply	specified in the SOW). ne 5x Matrix Spike only.	

IV. Special Reporting Requirements

The Laboratory shall:

- Ensure the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the resolution or corrective actions taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses and/or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analyses, including a copy of the approved modification form with the SDG Narrative.
- Initial analysis data are reported with a dilution factor of 1.0 and a final volume of 500 mL, per the SOW.
- Report the additional LCS as "LCSD" in the raw data and in the EDD with QCType "Laboratory_Control_Sample_Duplicate".
- Report the additional Matrix Spike with an "SRE" suffix in the raw data and EDD.
- Report any Post-Digestion Spike of the additional 5x Matrix Spike with an "ARE" suffix.

Date: 09/11/2024	MA: 3226.1	Title: ICP-AES with Modified Preparation Method and Analysis of Soils with Additional	
		Laboratory QC	
Method Source: SFAM01.1	Method: ICP-AES		
Matrix: Soil/Sediment			
Summary of Modification			
with additional modified LCS a AES. Unless specifically modified	nd Matrix Spikes and a ed by this modificatior	amples by EPA Draft Method 3050C (see below) analyze for the scheduled target analytes by ICP- n, all analyses, Quality Control (QC), and reporting rent EPA agreement remain unchanged and in full	
I. Analyte Modifications Not app			
II. Calibration and QC Require	ements	Not applicable	
 for Draft Method 3050 Prepare and analyze and Recovery limits do NO Prepare a Matrix Spike Post-Digestion Spike recovery 	C. n additional Laborator T apply to this LCS and spiked at two times t equirements apply to t	•	
Post-Digestion Spike co	· · · ·		
III. Preparation and Method N The Laboratory shall:	lodifications	Not applicable	
 Mix sample the Add 10 mL 1:1 minutes. Add 5 mL conc digestion complete 	oroughly and transfer HNO ₃ and 5 mL 1:1 H centrated HNO ₃ and re	t Method 3050C as follows: 1.00 – 1.50 g to a digestion vessel. Cl, heat the sample at 95°C (±3°C) and reflux 10 -15 flux for 30 minutes at 95°C (±3°C), repeat until	

• Method Blanks, both LCS, and all instrument QC are to be analyzed undiluted.

IV. Special Reporting Requirements

The Laboratory shall:

- Ensure the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the resolution or corrective actions taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses and/or re-preparations performed, and problems with the analysis of samples. Also include a discussion of any SOW Modified Analyses, including a copy of the approved modification form with the SDG Narrative.
- Initial analysis data are reported with a dilution factor of 2.0 and a final volume of 100 mL, per the SOW.
- Report the additional LCS as "LCSD" in the raw data and in the EDD with QCType "Laboratory_Control_Sample_Duplicate".
- Ensure that up-to-date Interelement Correction Factors (IECs) are provided with the data package.