

Date: 02/14/2024	MA: 3208.0	Title: ICP-AES Analysis Plus Molybdenum
Method Source: SFAM01.1	Method: ICP-AES	
Matrix: Aqueous/Water, Soil/Sediment		
Summary of Modification		
The purpose of this modified analysis is to analyze aqueous/water and soil/sediment samples by ICP-AES for the Target Analytes with the addition of the non-routine analyte Molybdenum (Mo). Unless specifically modified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.		
I. Analyte Modifications		Not applicable <input type="checkbox"/>

Analyte	CAS Number	CRQL (µg/L)	CRQL (mg/kg)	Spike (µg/L)	Spike (mg/kg)
Molybdenum (Mo)	7439-98-7	10	5.0	100	50

II. Calibration and QC Requirements	Not applicable <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> • Ensure that Method Detection Limits have been determined for Mo in aqueous/water and soil/sediment matrices by the preparation and analysis methods used for the samples that meet all applicable SOW requirements. • Perform the Initial Calibration with a blank and at least one non-blank standard at or below the modified CRQL adjusted to µg/L as necessary. • Add Mo to the ICV and CCV at appropriate mid-point concentrations. • Evaluate the ICB and CCB against the modified aqueous CRQL. • Evaluate the Preparation Blanks using the appropriate modified CRQL. • Prepare the Matrix Spikes at the modified levels. Post-Digestion Spike requirements are per the SOW. • Flag the Duplicates based on the appropriate modified CRQL. • Add Mo to the LCS at 2 times the appropriate modified CRQL. • Note that the Laboratory is not required to add Mo to the ICSA/ICSAB solutions. The Laboratory shall use a true value of zero (0) and acceptance windows of +/- 1x the CRQL, unless a non-zero value has been determined for the solutions. 	
III. Preparation and Method Modifications	Not applicable <input checked="" type="checkbox"/>
IV. Special Reporting Requirements	Not applicable <input type="checkbox"/>
<p>The Laboratory shall:</p> <ul style="list-style-type: none"> • Add Mo to Form 1. • Report the "J" and "U" qualifiers in accordance with the requirements in Exhibit B, Section 3.4.3.2.4.2, using the modified CRQLs. • Ensure that the SDG Narrative is updated as stated in the SOW, including any technical and administrative problems encountered and the corrective actions taken. These problems may include interference problems encountered during analysis, dilutions, re-analyses, 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 with the SDG Narrative.