

**METALS BY INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION  
SPECTROMETRY (ICP-AES) OR INDUCTIVELY COUPLED PLASMA-MASS  
SPECTROMETRY (ICP-MS)  
DATA VERIFICATION/VALIDATION IMPLEMENTATION FORM**

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**Purpose:** This worksheet is the mechanism to be used to identify and document the implementation of this procedure.

**Instructions:** One worksheet must be completed for each fraction and analytical method (e.g., SW-6010 ICP-AES or SW-6020 ICP-MS). The completed worksheet shall be forwarded to the Analytical Program Manager (APM) for approval. If the requirements of this procedure are adopted as-is, without the necessity of approved alternatives, enter "as-is" for review item "A" in the implementation column and complete the project sign-off section at the bottom of the form. No other entries are needed.

If project-specific implementations are necessary,

1. Identify review items that will be directly implemented and enter "as-is" in the respective rows of the Implementation column.
2. Identify review items that will not be considered by verifiers or validators during the implementation of this procedure, and enter "NA" in the respective rows of the Implementation column and reference attached materials documenting the reason for the exclusion of these review items in the Comment column.
3. Identify review items that will be implemented with project-specified alternative actions and enter "Alternative" in the respective rows of the Implementation column. In the Comment column, reference attached materials that document the need for the alternative actions and specify the actions to be implemented upon approval. This alternative description should cover the following: Deliverables, Frequency, Performance Criteria, Verification step(s), Validation step(s).
4. Complete the project sign-off section at the bottom of the worksheet and forward to APM for approval.

**Fraction and Method:**

	Implementation	Comment
1. All requirements of this procedure will be implemented.		
2. Technical Holding Time		
3. ICP-MS Tune Analysis (not ICP-AES)		
4. Initial Calibration		
5. Continuing Calibration		
6. ICP Interference Check Samples		
7. Blanks		
8. Laboratory Control Sample		
9. Matrix Spike/ Matrix Spike Duplicate		
10. Duplicate Sample Analysis		
11. ICP Serial Dilution		
12. ICP-MS Internal Standards		
13. RDL		
14. Target Analyte Identification		
15. Manual Calculation of Results		

The \_\_\_\_\_ project will approach metals by ICP-MS or ICP-AES data validation with a strategy consistent with this procedure, and/or with specific alternative(s) described on the attachment.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date