



ICF Consulting / Laboratory Data Consultants

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MEMORANDUM

TO: Lisa Hanusiak, Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Rose Fong, ESAT Task Order Project Officer (TOPO)
Quality Assurance (QA) Program, PMD-3

FROM: Doug Lindelof, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Technical Direction Form No.: 00905058 Amendment 2

DATE: June 3, 2009~~April 10, 2006~~

SUBJECT: Review of Analytical Data, Tier 3

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Alhambra
Site Account No.:	09 ES LA01
CERCLIS ID No.:	CAD980818579
Case No.:	34502
SDG No.:	MY21E1
Laboratory:	CompuChem (LIBRTY)
Analysis:	Select CLP Dissolved Metals by ICP-AES
Samples:	13 Groundwater Samples (see Case Summary)
Collection Date:	August 31, September 2, 6 and 7, 2005
Reviewer:	Kendra DeSantolo, ESAT/Laboratory Data Consultants

This report has been reviewed by the EPA TOPO for the ESAT contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Edward Messer, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9

CLP PO: FYI Action

SAMPLING ISSUES: Yes No

Data Validation Report

Case No.: 34502
SDG No.: MY21E1
Site: Alhambra
Laboratory: CompuChem (LIBRTY)
Reviewer: Kendra DeSantolo, ESAT/LDC
Date: ~~June 3, 2009~~ ~~April 10, 2006~~

I. CASE SUMMARY

Sample Information

Samples: MY21E1, MY21E2, MY21E3, MY21E5 through
MY21E9, and MY21F0 through MY21F4
Concentration and Matrix: Low Concentration Groundwater
Analysis: Select CLP Dissolved Metals by ICP-AES
SOW: ILM05.3 and Modification Reference Number 1264.1
Collection Date: August 31, September 2, 6 and 7, 2005
Sample Receipt Date: September 1, 3, 7 and 8, 2005
Preparation Date: September 9, 2005
Analysis Date: September 13, 2005

Field QC

Field Blanks (FB): Not provided
Equipment Blanks (EB): MY21E2, MY21E7, MY21F0, and MY21F4
Background Samples (BG): Not provided
Field Duplicates (D1): MY21F2 and MY21F3

Laboratory QC

Method Blanks & Associated Samples: PBW and samples listed above
Matrix Spike: MY21F1S
Duplicates: MY21F1D
ICP Serial Dilution: MY21F1L
Analysis: Select CLP Dissolved Metals by ICP-AES

<u>Analyte</u>	<u>Sample Preparation and Digestion Date</u>	<u>Analysis Date</u>
ICP-AES Select Metals	September 9, 2005	September 13, 2005
Percent Solids	Not applicable	Not applicable

CLP PO Action

None.

Sampling Issues

1. The Traffic Report/Chain of Custody (TR/COC) record form did not specify a sample to be used for laboratory quality control (QC). The laboratory selected sample MY21F1 for laboratory QC analysis. The effect on data quality is not known.

2. The cooler containing samples MY21E9, MY21F0, and MY21F1 arrived at the laboratory with a temperature of 8.8°C. This temperature exceeds the temperature of 4°± 2°C specified in the Statement of Work (SOW). Since the water samples were preserved to a pH less than 2, no adverse effect on the quality of the data is expected.

Additional Comments

The samples of this SDG were analyzed for CLP Dissolved Metals by ICP-AES under Modified Analysis Request (MAR), Modification Reference Number 1264.1.

All method requirements specified in the EPA Contract Laboratory Program (CLP) Inorganic Statement of Work (SOW) have been met.

Analytical results are listed in Table 1A with qualifications. Definitions of data qualifiers used in Table 1A are listed in Table 1B.

This report was prepared in accordance with the following documents:

- X Region 9 Standard Operating Procedure 906, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Inorganic Data Packages*;
- X *Request for Quote for Modified Analysis* (SOW flexibility clause), Modification Reference Number: 1264.1, Title: AES070705.0, August 23, 2005;
- X *USEPA Contract Laboratory Program Statement of Work For Inorganic Analysis Multi-Media, Multi-Concentration ILM05.3*, March 2004; and
- X *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	<u>Parameter</u>	<u>Acceptable</u>	<u>Comment</u>
1.	Data Completeness	Yes	
2.	Sample Preservation and Holding Times	Yes	
3.	Calibration	Yes	
	a. Initial		
	b. Initial and Continuing Calibration Verification		
	c. CRQL Check Standard (CRI)		
4.	Blanks	Yes	B
5.	ICP Interference Check Sample (ICS)	Yes	
6.	Laboratory Control Sample (LCS)	Yes	
7.	Duplicate Sample Analysis	Yes	
8.	Matrix Spike Sample Analysis	Yes	
9.	ICP Serial Dilution Analysis	Yes	
10.	ICP-MS Internal Standards	N/A	
11.	Field Duplicate Sample Analysis	Yes	
12.	Sample Quantitation	Yes	A
13.	Overall Assessment	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

- A. Results above the method detection limit (MDL) but below the contract required quantitation limit (CRQL) (denoted with an "L" qualifier) are estimated and flagged "J" in Table 1A.

Results above the MDL but below the CRQL are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of quantitation.

- B. The following results are reported as non-detected in Table 1A due to low level preparation and calibration blank contamination.

X Aluminum in all samples

Values for aluminum in the preparation blank (34.0 µg/L) and in continuing calibration blanks CCB5 (62.6 µg/L), CCB6 (61.1 µg/L), CCB7 (64.6 µg/L), and CCB8 (76.0 µg/L) are greater than the MDL but less than the CRQL. Sample results greater than or equal to the MDL but less than the CRQL are reported as non-detected (U) at the CRQL.

A preparation blank is an analytical control that contains distilled or deionized water, or baked sand for solid matrices, and reagents, which is carried through the entire analytical procedure. The preparation blank is used to determine the level of contamination introduced by the laboratory during preparation and analysis.

An initial calibration blank (ICB) consists of distilled or deionized water and reagents. It is analyzed at the beginning of each analytical run, immediately after the initial calibration verification (ICV) standard to monitor analyte carry-over.

A continuing calibration blank (CCB) consists of distilled or deionized water and reagents. It is analyzed after the continuing calibration verification (CCV) standard, at a frequency of every 10 samples and at the end of the analytical run to monitor analyte carry-over.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR INORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared in accordance with the document *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004.

- U The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- UJ The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.