DataVal, Inc.

Data Validation Report

Case No.: R06S31
Site: Omega Chemical OU-2 March 2006 Sampling
Laboratory: Region 9 Laboratory, Richmond, CA
Reviewer: Lisa Norosky/Agnieszka Jankowski, DataVal, Inc.
Date: October 2, 2006

I. Case Summary

SAMPLE INFORMATION:

Concentration and Matrix: Low Concentration Waters
Analysis: Perchlorate (314.0)
SOW: N/A

Samples in SDG 06075B: OC2-MW23D-W-5-196, OC2-MW15-W-0-198, OC2-MW15-W-1-199, OC2-MW13B-W-0-201 and OC2-MW12-W-0-203

Collection Dates: March 15, 2006
Sample Receipt Dates: March 16, 2006

FIELD QC:
Field Blanks (FB): None.
Equipment Blanks (EB): None.
Background Samples (BG): None.
Duplicates (D1): OC2-MW15-W-0-198 and OC2-MW15-W-1-199

LABORATORY QC: Matrix Spikes: OC2-MW23D-W-5-196

ANALYSES: Perchlorate (314.0)

Analyte	Sample Preparation Dates	Analysis Dates
Perchlorate	March 28 and 29, 2006	March 28 and 29, 2006

METHOD BLANKS AND ASSOCIATED SAMPLES:

Perchlorate:

B6C0170-BLK1: OC2-MW23D-W-5-196, OC2-MW15-W-0-198, OC2-MW15-W-1-199 and OC2-MW13B-W-0-201

B6C0187-BLK1: OC2-MW12-W-0-203

TABLES:

1A: Analytical Results with Qualifications
1B: Data Qualifier Definitions for Inorganic Data

TPO ACTION: None.

TPO ATTENTION: None.

SAMPLING ISSUES:
None.

ADDITIONAL COMMENTS:
In addition to the laboratory SOPs, this report was prepared according to the following documents:

- *Methods for the Determination of Organic and Inorganic Compounds in Drinking Water* (EPA 815-R-00-014, August 2000)

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, October 2004.

All samples in sample delivery group (SDG) 06075B received full validation. This included re-calculation of all reported results for perchlorate in the samples included in this SDG. All reported values for all samples were verified as correctly reported by the laboratory.

II. Validation Summary

The data were evaluated based on the following parameters:

Parameter		Acceptable	Comment
1.	Data Completeness	Yes	
2.	Sample Preservation and Holding Times	Yes	
3.	Calibration	Yes	
	a. Initial Calibration Verification		
	b. Continuing Calibration Verification		
	c. Calibration Blank		
	d. QL Standard		
4.	Blanks	Yes	
	a. Laboratory Preparation Blank		
	b. Field Blank		
	c. Equipment Blank		
5.	ICP Interference Check Sample Analysis	N/A	
6.	Laboratory Control Sample Analysis	Yes	
7.	Spiked Sample Analysis	Yes	
8.	Laboratory Duplicate Sample Analysis	N/A	
9.	Field Duplicate Sample Analysis	Yes	
10.	GFAA QC Analysis	N/A	
	a. Duplicate Injections		
	b. Analytical Spikes		
	c. Method of Standard Addition		
11.	ICP Serial Dilution Analysis	N/A	
12.	Sample Quantitation	Yes	
13.	Sample Result Verification	Yes	

N/A = Not Applicable

III. Overall Assessment of Data

All of the method requirements specified in laboratory standard operating procedure #531 have been met. The reported results for perchlorate in the samples were re-calculated and verified as correctly reported by the laboratory.

ANALYTICAL RESULTS
TABLE 1A

Case Number: R06S31
Site: Omega Chemical OU-2 March 2006 Sampling
SDG: 06075B
Lab: USEPA Region 9 Laboratory
Reviewer: Lisa Norosky, DataVal, Inc.
Date: 2-Oct-06

Analysis: Perchlorate
Matrix: Water

Station Location	OC2-MW23D-W-5-196				FD1				FD1				OC2-MW13B-W-0-201			
Sample ID	OC2-MW23D-W-5-196				OC2-MW15-W-0-198				OC2-MW15-W-1-199				OC2-MW13B-W-0-201			
Lab Sample ID	0603049-01				0603049-03				0603049-04				0603049-06			
Date of Collection	15-Mar-06				15-Mar-06				15-Mar-06				15-Mar-06			
Units	ug/L				ug/L				ug/L				ug/L			
Analyte	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com	Result	Q	Val	Com
Perchlorate	3.8				3.9				4.2				3.2			

Station Location	OC2-MW12-W-0-203				Method Blank				Method Blank				QL			
Sample ID	OC2-MW12-W-0-203				B6C0170-BLK1				B6C0187-BLK1							
Lab Sample ID	0603049-08				27-Mar-06				29-Mar-06							
Date of Collection	15-Mar-06				ug/L				ug/L				ug/L			
Units	ug/L				Result	Q	Val	Com	Result	Q	Val	Com	Result			
Analyte	Result	Q	Val	Com	2.0	U			2.0	U			2.0			
Perchlorate	2.0	U														

Val-Validity Refer to Data Qualifiers in Table 1B.
Com-Comments Refer to the Corresponding Section in the Narrative for each letter.
N/A-Not Applicable, NA-Not Analyzed

FD1, FD2, etc.- Field Duplicate Pairs
FB-Field Blank, EB-Equipment Blank, TB-Trip Blank
BG-Background Sample

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 value. The reported value is either the sample quantitation limit or the sample detection limit for all the analytes except Cyanide (CN) and Mercury (Hg). For CN and Hg, the reported value is the Quantitation Limit (QL).

L Indicates results which fall between the sample detection limit and the QL. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.

J The associated value is an estimated quantity. The analyte was analyzed for and was positively identified, but the reported numerical value may not be consistent with the amount actually present in the environmental sample.

R The data are unusable. The analyte was analyzed for, but the presence or absence of the analyte can not be verified.

UJ A combination of the "U" and the "J" qualifier. The analyte was analyzed for but was not detected. The reported value is an estimate and may be inaccurate or imprecise.