



Fulcrum Environmental

Ryan Mathews
406 N. 2nd Street
Yakima, WA 98901

RE: Kennewick SD Drinking Water - Tri-Tech Skills Center
Work Order Number: 1702286

February 27, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 11 sample(s) on 2/27/2017 for the analyses presented in the following report.

Drinking Water Metals by EPA Method 200.8

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

CC:
Amanda Enbysk



Date: 02/27/2017

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Tri-Tech Sk
Work Order: 1702286

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1702286-001	TTS22517-P-KF-27	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-002	TTS22517-S-KF-27	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-003	TTS22517-T-KF-27	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-004	TTS22517-P-KF-28	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-005	TTS22517-S-KF-28	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-006	TTS22517-T-KF-28	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-007	TTS22517-P-CF-34	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-008	TTS22517-S-CF-34	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-009	TTS22517-T-CF-34	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-010	TTS22517-P-CF-37	02/25/2017 7:15 AM	02/27/2017 9:20 AM
1702286-011	TTS22517-P-DF-38	02/25/2017 7:15 AM	02/27/2017 9:20 AM

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Tri-Tech Skills Center

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Sample Comments:

1702286-004A 208787: Prep Comments for EPA200.8, Sample 1702286-004A: Turbidity: 0.01 NTU

1702286-010A 208789: Prep Comments for EPA200.8, Sample 1702286-010A: Turbidity: 0.00 NTU

1702286-001A 208783: Prep Comments for EPA200.8, Sample 1702286-001A: Turbidity: 0.01 NTU

1702286-007A 208788: Prep Comments for EPA200.8, Sample 1702286-007A: Turbidity: 0.00 NTU

1702286-011A 208790: Prep Comments for EPA200.8, Sample 1702286-011A: Turbidity: 0.00 NTU

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



CLIENT: Fulcrum Environmental
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Lab ID: 1702286-001 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-KF-27 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Drinking Water Metals by EPA Method 200.8

Batch ID: 16360 Analyst: TN

Lead	6.46	1.00		µg/L	1	2/27/2017 3:46:33 PM
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Lab ID: 1702286-004 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-KF-28 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Drinking Water Metals by EPA Method 200.8

Batch ID: 16360 Analyst: TN

Lead	8.97	1.00		µg/L	1	2/27/2017 4:00:58 PM
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Lab ID: 1702286-007 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-CF-34 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Drinking Water Metals by EPA Method 200.8

Batch ID: 16360 Analyst: TN

Lead	11.8	1.00		µg/L	1	2/27/2017 4:04:34 PM
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CLIENT: Fulcrum Environmental
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Lab ID: 1702286-010 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-CF-37 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Drinking Water Metals by EPA Method 200.8

Batch ID: 16360 Analyst: TN

Lead	ND	1.00		µg/L	1	2/27/2017 4:08:10 PM
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Lab ID: 1702286-011 **Collection Date:** 2/25/2017 7:15:00 AM
Client Sample ID: TTS22517-P-DF-38 **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Drinking Water Metals by EPA Method 200.8

Batch ID: 16360 Analyst: TN

Lead	12.6	1.00		µg/L	1	2/27/2017 4:11:47 PM
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QC SUMMARY REPORT
Drinking Water Metals by EPA Method 200.8

Sample ID MB-16360	SampType: MBLK	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: MBLKW	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662272					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID LCS-16360	SampType: LCS	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: LCSW	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662273					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 44.6 1.00 50.00 0 89.1 85 115

Sample ID 1702286-001ADUP	SampType: DUP	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: TTS22517-P-KF-27	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662277					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 6.19 1.00 6.458 4.26 30

Sample ID 1702286-001AMS	SampType: MS	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: TTS22517-P-KF-27	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662278					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 88.8 1.00 100.0 6.458 82.3 70 130

Sample ID 1702286-001AMSD	SampType: MSD	Units: µg/L			Prep Date: 2/27/2017	RunNo: 34678					
Client ID: TTS22517-P-KF-27	Batch ID: 16360				Analysis Date: 2/27/2017	SeqNo: 662279					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 92.3 1.00 100.0 6.458 85.9 70 130 88.79 3.92 30

