



**Fulcrum Environmental**

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

**RE: Kennewick SD Drinking Water - Ridge View Elementary**  
**Work Order Number: 1703027**

March 10, 2017

**Attention Ryan Mathews:**

Fremont Analytical, Inc. received 5 sample(s) on 3/3/2017 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: 03/10/2017

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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Ridge View  
**Work Order:** 1703027

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## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1703027-001	RVE3217-P-KF-08	03/02/2017 6:00 AM	03/03/2017 9:30 AM
1703027-002	RVE3217-S-KF-08	03/02/2017 6:00 AM	03/03/2017 9:30 AM
1703027-003	RVE3217-T-KF-09	03/02/2017 6:00 AM	03/03/2017 9:30 AM
1703027-004	RVE3217-P-CF-41	03/02/2017 6:00 AM	03/03/2017 9:30 AM
1703027-005	RVE3217-P-CF-42	03/02/2017 6:00 AM	03/03/2017 9:30 AM

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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:

1703027-001A 209611: Prep Comments for EPA200.8, Sample 1703027-001A: Turbidity: 0.00 NTU

1703027-004A 209612: Prep Comments for EPA200.8, Sample 1703027-004A: Turbidity: 0.00 NTU

1703027-005A 209613: Prep Comments for EPA200.8, Sample 1703027-005A: 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:** 1703027-001      **Collection Date:** 3/2/2017 6:00:00 AM  
**Client Sample ID:** RVE3217-P-KF-08      **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: 16420      Analyst: TN

Lead	7.89	1.00		µg/L	1	3/10/2017 1:51:06 PM
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**Lab ID:** 1703027-004      **Collection Date:** 3/2/2017 6:00:00 AM  
**Client Sample ID:** RVE3217-P-CF-41      **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: 16420      Analyst: TN

Lead	16.7	1.00		µg/L	1	3/10/2017 1:55:07 PM
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**Lab ID:** 1703027-005      **Collection Date:** 3/2/2017 6:00:00 AM  
**Client Sample ID:** RVE3217-P-CF-42      **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: 16420      Analyst: TN

Lead	ND	1.00		µg/L	1	3/10/2017 1:59:09 PM
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**QC SUMMARY REPORT**  
**Drinking Water Metals by EPA Method 200.8**

Sample ID <b>MB-16420</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34873</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>16420</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665786</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID <b>LCS-16420</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34873</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>16420</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665787</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 52.4 1.00 50.00 0 105 85 115

Sample ID <b>1703021-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34873</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>16420</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665789</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00 0 30

Sample ID <b>1703021-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34873</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>16420</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665790</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 102 1.00 100.0 0.6172 101 70 130

Sample ID <b>1703021-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34873</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>16420</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665791</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 103 1.00 100.0 0.6172 102 70 130 101.8 0.919 30



