



**Fremont**  
*Analytical*

3600 Fremont Ave. N.  
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**Fulcrum Environmental**

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

**RE: Kennewick School District - Washington Elementary Drinking W  
Work Order Number: 1702137**

February 14, 2017

**Attention Ryan Mathews:**

Fremont Analytical, Inc. received 14 sample(s) on 2/13/2017 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

DoD/ELAP Certification #L2371, ISO/IEC 17025:2005  
ORELAP Certification: WA 100009-007 (NELAP Recognized)

**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick School District - Washington Ele  
**Work Order:** 1702137

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1702137-001	WE21117-P-CDF-11	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-002	WE21117-S-CDF-11	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-003	WE21117-T-CDF-11	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-004	WE21117-P-CDF-13	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-005	WE21117-S-CDF-13	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-006	WE21117-T-CDF-13	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-007	WE21117-P-OF-29	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-008	WE21117-S-OF-29	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-009	WE21117-T-OF-29	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-010	WE21117-P-CDF-32	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-011	WE21117-S-CDF-32	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-012	WE21117-T-CDF-32	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-013	WE21117-P-CF-38	02/10/2017 8:30 AM	02/13/2017 9:37 AM
1702137-014	WE21117-P-CF-39	02/10/2017 8:30 AM	02/13/2017 9:37 AM

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**CLIENT:** Fulcrum Environmental**Project:** Kennewick School District - Washington Elementary Drinking Water Sampling

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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:

1702137-001A 206694: Prep Comments for EPA200.8, Sample 1702137-001A: Turbidity: 0.27 NTU  
1702137-004A 206698: Prep Comments for EPA200.8, Sample 1702137-004A: Turbidity: 0.21 NTU  
1702137-007A 206699: Prep Comments for EPA200.8, Sample 1702137-007A: Turbidity: 0.07 NTU  
1702137-010A 206700: Prep Comments for EPA200.8, Sample 1702137-010A: Turbidity: 0.08 NTU  
1702137-013A 206701: Prep Comments for EPA200.8, Sample 1702137-013A: Turbidity: 0.00 NTU  
1702137-014A 206702: Prep Comments for EPA200.8, Sample 1702137-014A: 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



## Analytical Report

Work Order: 1702137  
Date Reported: 2/14/2017

**CLIENT:** Fulcrum Environmental

**Project:** Kennewick School District - Washington Elementary Drinking Water Sam

**Lab ID:** 1702137-001

**Client Sample ID:** WE21117-P-CDF-11

**Collection Date:** 2/10/2017 8:30:00 AM

**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: 16210 Analyst: TN

Copper	678	0.500		µg/L	1	2/13/2017 4:11:47 PM
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**Lab ID:** 1702137-004

**Client Sample ID:** WE21117-P-CDF-13

**Collection Date:** 2/10/2017 8:30:00 AM

**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: 16210 Analyst: TN

Copper	640	0.500		µg/L	1	2/13/2017 4:36:45 PM
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**Lab ID:** 1702137-007

**Client Sample ID:** WE21117-P-OF-29

**Collection Date:** 2/10/2017 8:30:00 AM

**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: 16210 Analyst: TN

Copper	344	0.500		µg/L	1	2/13/2017 4:40:22 PM
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## Analytical Report

Work Order: 1702137  
Date Reported: 2/14/2017

**CLIENT:** Fulcrum Environmental

**Project:** Kennewick School District - Washington Elementary Drinking Water Sam

**Lab ID:** 1702137-010

**Collection Date:** 2/10/2017 8:30:00 AM

**Client Sample ID:** WE21117-P-CDF-32

**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: 16210

Analyst: TN

Copper	789	0.500		µg/L	1	2/13/2017 4:43:58 PM
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**Lab ID:** 1702137-013

**Collection Date:** 2/10/2017 8:30:00 AM

**Client Sample ID:** WE21117-P-CF-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: 16210

Analyst: TN

Copper	1,210	0.500		µg/L	1	2/13/2017 4:47:34 PM
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**Lab ID:** 1702137-014

**Collection Date:** 2/10/2017 8:30:00 AM

**Client Sample ID:** WE21117-P-CF-39

**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: 16210

Analyst: TN

Copper	ND	0.500		µg/L	1	2/13/2017 4:51:10 PM
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**Work Order:** 1702137  
**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick School District - Washington Ele

## QC SUMMARY REPORT

### Drinking Water Metals by EPA Method 200.8

Sample ID	MB-16210	SampType:	MBLK		Units:	µg/L		Prep Date:	2/13/2017		RunNo:	34432	
Client ID:	MBLKW	Batch ID:	16210					Analysis Date:	2/13/2017		SeqNo:	657198	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper		ND	0.500										

Sample ID	LCS-16210	SampType:	LCS		Units:	µg/L		Prep Date:	2/13/2017		RunNo:	34432	
Client ID:	LCSW	Batch ID:	16210					Analysis Date:	2/13/2017		SeqNo:	657199	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper		93.2	0.500	100.0	0	93.2	85	115					

Sample ID	1702137-001ADUP	SampType:	DUP		Units:	µg/L		Prep Date:	2/13/2017		RunNo:	34432	
Client ID:	WE21117-P-CDF-11	Batch ID:	16210					Analysis Date:	2/13/2017		SeqNo:	657201	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper		676	0.500						677.5	0.160	30		

Sample ID	1702137-001AMS	SampType:	MS		Units:	µg/L		Prep Date:	2/13/2017		RunNo:	34432	
Client ID:	WE21117-P-CDF-11	Batch ID:	16210					Analysis Date:	2/13/2017		SeqNo:	657202	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper		869	0.500	200.0	677.5	95.8	70	130					

Sample ID	1702137-001AMSD	SampType:	MSD		Units:	µg/L		Prep Date:	2/13/2017		RunNo:	34432	
Client ID:	WE21117-P-CDF-11	Batch ID:	16210					Analysis Date:	2/13/2017		SeqNo:	657203	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Copper		830	0.500	200.0	677.5	76.3	70	130	869.0	4.57	30		



Work Order Number: **1702137**

Date Received: **2/13/2017 9:37:00 AM**

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? FedEx

3. Coolers are present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
4. Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
5. Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Required <input type="checkbox"/>
6. Was an attempt made to cool the samples?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to $10.0^{\circ}\text{C}^{*}$	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
8. Sample(s) in proper container(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
9. Sufficient sample volume for indicated test(s)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
10. Are samples properly preserved?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
11. Was preservative added to bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
			HNO <sub>3</sub>
12. Is there headspace in the VOA vials?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
13. Did all samples containers arrive in good condition(unbroken)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
14. Does paperwork match bottle labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
15. Are matrices correctly identified on Chain of Custody?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
16. Is it clear what analyses were requested?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
17. Were all holding times able to be met?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:  Date:   
 By Whom:  Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
 Regarding:   
 Client Instructions:

HNO<sub>3</sub> added to to 002A, 003A, 005A, 006A, 008A, 009A, 011A, 012A

Item #	Temp °C
Cooler	1.3
Sample	1.1

Original





**Fremont**  
Analytical

3600 Fremont Ave N.  
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Tel: 206-352-3790  
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Client: Fulcrum Environmental Consulting

Address: 406 North Second Street

City, State, Zip: Yakima, WA 98901

Telephone: 509.574.0839

Fax: 509.545.8453

# Chain of Custody Record and Laboratory Services Agreement

Date: 2/11/2017

Laboratory Project No (Internal): 1702137

Page: 1 of 2

Project Name: Kennel School District - Washington Elementary Drinking Water Sampling

Project No: 162017.17

Collected by: Nathan Boston

Location: Washington Elementary, Kennel, WA

Report To (PM): Ryan Mathews

PM Email: rmathews@fulcrum.net; cc: aenbysk@fulcrum.net

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytical Parameters																Comments
				VOCS (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (IC)**	EDB (8011)				
WE21117-P-CDF-11	2/10/2017	8:30AM	DW																Preserved with HNO3	
WE21117-S-CDF-11	2/10/2017		DW																Hold	
WE21117-T-CDF-11	2/10/2017		DW																Hold	
WE21117-P-CDF-13	2/10/2017		DW																Preserved with HNO3	
WE21117-S-CDF-13	2/10/2017		DW																Hold	
WE21117-T-CDF-13	2/10/2017		DW																Hold	
WE21117-P-CDF-29	2/10/2017		DW																Preserved with HNO3	
WE21117-S-CDF-29	2/10/2017		DW																Hold	
WE21117-T-CDF-29	2/10/2017		DW																Hold	
WE21117-P-CDF-32	2/10/2017		DW																Preserved with HNO3	
**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti U V Zn																				
***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite																				
Sample Disposal: <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)																				
I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.																				
Relinquished	Date/Time	Received	Date/Time	Special Remarks:																
x	2-11-17 10:45AM	x	2/13/17	Please Preserve Unpreserved Samples TAT																
Relinquished	Date/Time	Received	Date/Time	TAT -> SameDay^ NextDay^ 2 Day 3 Day STD																
x		x		Please coordinate with the lab in advance																





**3600 Fremont Ave N. Tel: 206-352-3790**  
**Seattle, WA 98103 Fax: 206-352-7178**

**Tel: 206-352-3790**  
**Fax: 206-352-7178**

**Client:** Fulcrum Environmental Consulting

**Address:** 406 North Second Street

City, State, Zip: Yakima, WA 98901

**Telephone:** 509.574.0839

**Fax: 509.545.8453**

**PM Email:**

rmathews@efulcrum.net; cc: aenbysk@efulcrum.net

Date: 2/11/2017

Laboratory Project No (internal): 1702137

Page: 2 of 2

1702137

Project Name: Kennewick School District - Washington Elementary Drinking Water Sampling  
Project No: 162017.17  
Collected by: Heather Bostrom

Collected by:

Nathan Boston

Location: Washington Elementary, Kennewick, WA

**Report To (PM):** Ryan Mathews

**Ryan Mathews**

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

***Anions (Circle):	Nitrate	Nitrite	Chloride	Sulfate	Bromide	O-Phosphate	Fluoride	Nitrate-Nitrite	Turn-around times for samples received after 4:00pm will begin on the following business day.	Special Remarks:
Sample Disposal:	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)	See Page 1							

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

See Page 1

Relinquished	Date/Time
x Nathan Bos	2/11/17 10:15 AM

Received  
X

Date/Time 2/13/17 0937

Relinquished	Date/Time
	1/1

Received

Date/Time

Interval	SameDay	NextDay	2 Day	3 Day	STD
Interval					

1. **Introduction**  
 2. **Background**  
 3. **Methods**  
 4. **Results**  
 5. **Conclusion**  
 6. **References**  
 7. **Appendix**  
 8. **Figure 1**  
 9. **Figure 2**  
 10. **Figure 3**  
 11. **Figure 4**  
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 217. **Figure 210**

X

Can be seen in the following: