

November 6, 2017

Kennewick School District No. 17  
Attn: Keith Colee, Maintenance and Operations Manager  
1000 West Fourth Avenue  
Kennewick, Washington, 99336

**RE: Winter 2016 Drinking Water Sampling Results  
Edison Elementary School, 201 South Dawes Street, Kennewick, Washington**

Dear Keith:

On Thursday, December 22, 2016, Fulcrum Environmental Consulting, Inc. (Fulcrum) collected 44 drinking water samples for lead and copper analysis from Edison Elementary School (School) located at 201 South Dawes Street in Kennewick, Washington. Initial sampling identified 26 fixture locations with copper concentrations above the guidance levels. Fulcrum returned to the School on March 4, 2017 to collect samples after remediation of the fixtures and laboratory results found concentrations to be below guidance levels. Sampling was completed as part of a District-wide project and all analysis was completed by Washington State Department of Ecology (Ecology) accredited laboratories.

### Summary

The purpose of initial sampling was to evaluate current drinking water quality conditions with respect to lead and copper as a result of the increased national and local interest related to lead in drinking water. The intent of sampling was to meet the requirements of the pending regulations set forth in Washington Administrative Code (WAC) 246-366A-130 and 246-366A-135<sup>1</sup>. Consistent with the regulations, Fulcrum completed sampling at the rates of at least 50% of plumbing fixtures used regularly for drinking or cooking in elementary and preschools and at least 25% of drinking or cooking fixtures in middle schools, junior high schools, and high schools. In addition, Fulcrum sampled administrative facilities in the District at the same rate as elementary schools, of at least 50% of drinking and cooking fixtures.

Fulcrum completed initial sampling on December 22, 2016. Initial results identified 26 samples with copper concentrations above the Environmental Protection Agency (EPA) action level of 1,300 micrograms per liter ( $\mu\text{g/L}$ ). Upon receipt of results, the District removed the identified fixtures from service pending remediation and further testing.

Copper is not a significant component in fixtures, but is the primary material in the plumbing system. To remediate elevated copper, the District aggressively flushed the fixtures with cold water to clear the plumbing of copper construction debris. Fulcrum returned on March 4, 2017 and collected samples to evaluate the success of the remediation. Follow-up samples yielded results confirming the remediation was

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<sup>1</sup> Washington State Department of Health, WAC 246-366A, *The Environmental Health and Safety Standards of Primary and Secondary Schools*, <http://apps.leg.wa.gov/WAC/default.aspx?cite=246-366A>, July 26, 2016

successful at reducing copper below the EPA action level. Following sampling and review of laboratory results, Fulcrum recommended, and the District elected, to return the fixtures to service.

As all samples now report concentrations below lead and copper action levels, at this time Fulcrum does not recommend any additional sampling. However, consistent with industry practice and the intent of WAC 246-366A, Fulcrum recommends that the District complete re-sampling of the building within the next five years (before December 2021). Additionally, if WAC 246-366A-130 is enacted, the regulations would require testing of all remaining fixtures within two years of the effective date (July 1, 2017). See Figure 1 in Attachment A for fixture locations and laboratory results.

### **Sampling Methodology**

As a portion of this project, Fulcrum prepared a Sampling and Analysis Plan (SAP) intended to satisfy future initial sampling requirements under pending regulations.

For initial evaluation purposes, Fulcrum collected “first draw” samples. This “first draw” water volume consists of 250 milliliters (mL) and is intended to represent the water quality in the fixture, tubing connecting the fixture to the building piping, and potentially a portion of the building piping. If lead and copper are present, this first-draw sample typically contains the highest lead levels and indicates high copper from the associated building piping.

For most post-remediation evaluation sampling, Fulcrum collected three-part samples consisting of the first draw, “second draw”, and “third draw” water volumes. Second and third draw samples are intended to represent the water quality of building piping and plumbing components behind the fixture and the water entering the building from the water main.

As a quality control measure, Fulcrum also included a laboratory blank of distilled water and a laboratory “spike” sample with known concentrations of lead and copper at the selected action levels for the project during all sampling events. Blank and spike sample results are included in the results tables for reference.

Blank and spike samples were used to evaluate laboratory performance. The reported lead and copper concentrations of quality assurance samples provided a metric to determine accuracy of the analyses. If the reported concentration of the spike sample differed from the action level, then the spike sample concentration was used as the action level.

Field evaluation of pH and temperature of drinking water was completed during the cold water flush and immediately following sample collection on select fixtures during the initial sampling event as a general evaluation of water quality.

### **Sampling Activities**

Fulcrum’s two-part sampling process consisted of an initial site visit the prior afternoon/evening to locate and flush each water sampling location (fixture). Sample collection occurred the following morning, after the fixture sat motionless for more than eight but no less than 18 hours, typically approximately 14 hours.

### Initial Sampling

On the initial visit, Fulcrum flushed cold water through each fixture selected for sampling for approximately one minute. Following the flush, each fixture was covered and secured within a plastic bag. The plastic bags were marked with signage indicating testing was in progress and the fixture should not be used. Fulcrum returned to the school eight to 18 hours later to collect the samples. Each sample consisted of the first draw collected into 250-mL unpreserved polyethylene bottles and was immediately placed on ice in a chilled cooler.

Samples collected from the initial sampling event were delivered under chain-of-custody to RJ Lee Group's Columbia Basin Analytical Laboratory (Ecology Lab ID: C859-16) in Pasco, Washington for analysis.

### Fixture Replacement and Flushing

Fixtures identified with elevated lead concentrations were replaced and preconditioned by running cold water continuously through the fixture for 24 hours, as outlined in WAC 246-366A-130. Following replacement and preconditioning, Fulcrum collected follow-up samples to confirm the success of fixture replacement.

Fixtures producing elevated copper concentrations were generally identified in newer District buildings and were not associated with specific fixture styles. The relationship between building construction age and fixture styles indicates elevated copper concentrations are principally associated with construction debris in the plumbing system.

All fixtures with elevated copper were flushed aggressively by running water through the fixture at high flow with the aerator removed for approximately 30 minutes to clear the plumbing of any debris potentially causing elevated copper concentrations. Following an aggressive flush, fixtures were resampled to evaluate the effectiveness at reducing copper concentrations. The District elected to install filters, install signage indicating the fixtures should be used only for handwashing, or permanently removed from service fixtures that did not respond to an aggressive flush. Filtered fixtures were resampled following filter installation to verify effectiveness of the filter.

### Remedial Sampling

Remedial sampling typically consisted of first, second, and third draw samples from the fixture location and plumbing system in question. First draw samples were collected into 250 mL polyethylene bottles preserved with nitric acid. The second draw water volume consists of water collected into a 250 mL unpreserved polyethylene container immediately following the first draw. No water was lost between collection of the first and second draw samples. The third draw water volume is a 1,000 mL sample collected into a one liter unpreserved polyethylene container after the fixture has been flushed for about three to five minutes.

Samples collected following remedial activities were shipped by common carrier under chain of custody to Fremont Analytical Laboratory (Ecology Lab ID: C910-16) in Seattle, Washington for analysis. Fremont was selected based on their availability to complete analysis on an expedited schedule.

## **Analytical Results**

Samples from both initial and remedial sampling events were analyzed for lead and copper in drinking water by EPA Method 200.8.

### Initial Sampling

Sample locations from the initial sampling event are presented in Figure 1 in Attachment A of this letter. A site-specific sampling and analysis plan (SSSAP) that provides a building specific summary of the location, number, and sampling frequency of water fixture locations is located in Attachment B. Initial analytical results are summarized in Table 1 located in Attachment C of this letter. Laboratory analytical results from the initial sampling event are located in Attachment D of this letter.

In addition, pH and temperature data from the initial sampling event is presented in Table 2 in Attachment C of this letter.

### Remedial Sampling

Sample locations from the remedial sampling event are presented in Figure 1 in Attachment A of this letter. The remedial analytical results from this project are summarized in Table 3 located in Attachment C of this letter. Laboratory analytical results from the remedial sampling event are located in Attachment E of this letter.

## **Discussion**

### Initial Sampling

Analytical results identified 26 samples with copper concentrations above the EPA action level of 1,300 µg/L. No samples were identified with lead concentrations above the EPA action level of 15 µg/L.

### Remedial Sampling

Immediately following receipt of initial sampling results, the District removed the identified fixtures from service pending remediation and further testing. To remediate elevated copper concentrations, the District completed an aggressive flush of the fixtures. Fulcrum returned on the morning following the aggressive flush, March 4, 2017, to collect follow-up samples.

Analytical results from remedial sampling indicated the aggressive flush was successful at reducing copper concentrations below the action level for the fixtures in question.

## Recommendations

No samples were found to contain lead concentrations above the EPA action level of 15 µg/L. A total of 26 initial samples contained copper above the EPA action level of 1,300 µg/L. The District completed an aggressive flush to reduce the copper concentration of the fixtures and follow-up samples yielded results below the action level, confirming the remediation was successful. Following sampling and review of laboratory results, Fulcrum recommended, and the District elected, to return the fixtures to service.

As all samples now report concentrations below lead and copper action levels, Fulcrum does not recommend any additional sampling at this time. However, consistent with industry practice and the intent of WAC 246-366A, Fulcrum recommends that the District complete re-sampling of the building within the next five years (before December 2021). Additionally, if WAC 246-366A-130 is enacted, the regulations would require testing of all remaining fixtures within two years of the effective date (July 1, 2017).

If you have any questions, please feel free to contact me at (509) 574-0839.

Sincerely,



Amanda Enbysk, GIT  
Environmental Geologist

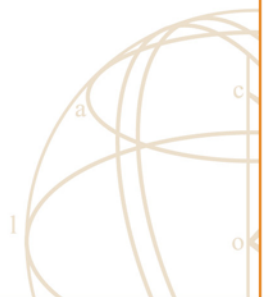


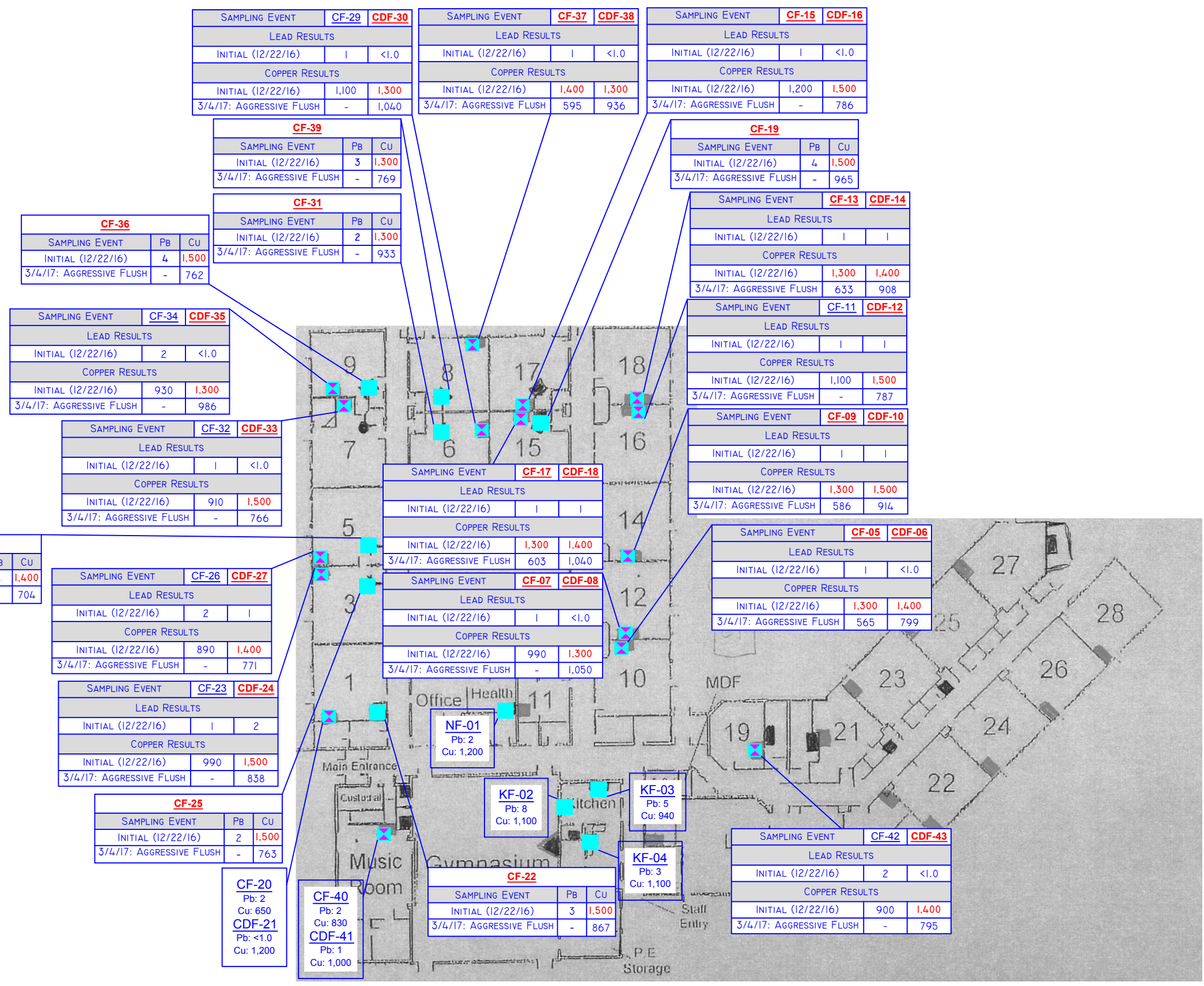
Ryan K. Mathews, CIH, CHMM  
Principal



**ATTACHMENT A**

Figure 1: Sample Location Map





### LEGEND

- KF-## - Kitchen faucet
- CF-## - Classroom faucet
- CDF-## - Classroom drinking fountain
- OF-## - Office faucet
- WC-## - Water cooler fountain
- BF-## - Bottle filler fountain
- NF-## - Nurse's faucet
- - Sample location: faucet
- - Sample location: drinking fountain at sink
- - Sample location: faucet and drinking fountain at same sink
- ▼ - Sample location: water cooler fountain

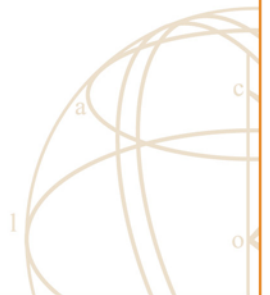
-Lead (Pb) and copper (Cu) results for each sample location are below each identifier. All results reported in µg/L.

-Samples in **BOLD RED** indicate fixture locations where the initial concentrations of lead or copper were above the respective action level.

DRAWING PROVIDED BY KENNEWICK SCHOOL DISTRICT

**ATTACHMENT B**

Site-Specific Sampling and Analysis Plan





**Site-Specific Sampling and Analysis Plan**  
**Kennewick School District – Winter 2016 Drinking Water Sampling**

*Note: This SSSAP has been prepared as a supplement to the project SAP/QAPP and provide a building specific summary of the location, number, and sampling frequency of water fixture locations.*

Campus/Building: Edison Elementary School Address: 201 S. Dawes Street, Kennewick WA

Elementary       Middle School       High School       Administration

Date of Construction: 1960 Modernizations: 1977; 2001

Fixture Type	Locations	Fixture Styles <sup>1</sup>	Samples	Ratio
Drinking fountain/water cooler (DF/WC)	2	-	0	0%
Kitchen Fixture (KF)	3	3	3	100%
Classroom faucet, including faucets in Food Labs and Life Sciences Classrooms (CF)	25	2 (3)	17 (24)*	68%
Classroom drinking fountain at sink (CDF)	27	1	16	59%
Nurse's Office/Health Room (NF)	1	1	1	100%
Teacher's Lounges/Work Rooms (OF)	2	-	0	0%
<b>TOTALS</b>	<b>60</b>		<b>37 (44)</b>	<b>62%</b>

<sup>1</sup> Fixture styles are approximate based on sampler's observations

Lead Sampler: Logan Lopez Date: 10/11/2017

Sample Prefix: EDE – 122216 – P (first-draw) – 01-46  
*School Code Date Sample Type Fixture Type Sample Number*

Laboratory: R. J. Lee Group, Columbia Basin Analytical Delivery Date: December 22, 2016

Comments:

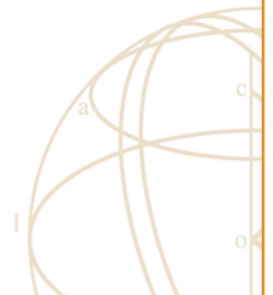
\*Samples collected from hand wash fixtures. Total samples marked "CF" is 24

**ATTACHMENT C**

Table 1: Initial Sampling Analytical Results Summary Table

Table 2: pH and Temperature Data Summary Table

Table 3: Remedial Sampling Analytical Results Summary Table



**Table 1: Initial Sampling Analytical Results**

Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
122216-EDE-P-NF-01: Nurse's Office	Nurse's Faucet	2	1,200
122216-EDE-P-KF-02: Kitchen, West Wall	Kitchen Faucet	8	1,100
122216-EDE-P-KF-03: Kitchen, North Wall	Kitchen Faucet	5	940
122216-EDE-P-KF-04: Kitchen, South Section	Kitchen Faucet	3	1,100
<b>122216-EDE-P-CF-05: Room 10</b>	<b>Classroom Faucet</b>	1	<b>1,300</b>
<b>122216-EDE-P-CDF-06 : Room 10</b>	<b>Classroom Drinking Fountain</b>	<1.0	<b>1,400</b>
122216-EDE-P-CF-07: Room 12	Classroom Faucet	1	990
<b>122216-EDE-P-CDF-08: Room 12</b>	<b>Classroom Drinking Fountain</b>	<1.0	<b>1,300</b>
<b>122216-EDE-P-CF-09: Room 14</b>	<b>Classroom Faucet</b>	1	<b>1,300</b>
<b>122216-EDE-P-CDF-10: Room 14</b>	<b>Classroom Drinking Fountain</b>	1	<b>1,500</b>
122216-EDE-P-CF-11: Room 16	Classroom Faucet	1	1,100
<b>122216-EDE-P-CDF-12: Room 16</b>	<b>Classroom Drinking Fountain</b>	1	<b>1,500</b>
<b>122216-EDE-P-CF-13: Room 18</b>	<b>Classroom Faucet</b>	1	<b>1,300</b>
<b>122216-EDE-P-CDF-14: Room 18</b>	<b>Classroom Drinking Fountain</b>	1	<b>1,400</b>
122216-EDE-P-CF-15: Room 17	Classroom Faucet	1	1,200
<b>122216-EDE-P-CDF-16: Room 17</b>	<b>Classroom Drinking Fountain</b>	<1.0	<b>1,500</b>
<b>122216-EDE-P-CF-17: Room 15</b>	<b>Classroom Faucet</b>	<1.0	<b>1,300</b>
<b>122216-EDE-P-CDF-18: Room 15</b>	<b>Classroom Drinking Fountain</b>	<1.0	<b>1,400</b>
<b>122216-EDE-P-CF-19: Room 15</b>	<b>Classroom Faucet</b>	4	<b>1,500</b>
122216-EDE-P-CF-20 : Room 1	Classroom Faucet	2	650
122216-EDE-P-CDF-21: Room 1	Classroom Drinking Fountain	<1.0	1,200
<b>122216-EDE-P-CF-22: Room 1</b>	<b>Classroom Faucet</b>	3	<b>1,500</b>
122216-EDE-P-CF-23: Room 3	Classroom Faucet	1	990
<b>122216-EDE-P-CDF-24: Room 3</b>	<b>Classroom Drinking Fountain</b>	2	<b>1,500</b>
<b>122216-EDE-P-CF-25: Room 3</b>	<b>Classroom Faucet</b>	2	<b>1,500</b>
122216-EDE-P-CF-26: Room 5	Classroom Faucet	2	890
<b>122216-EDE-P-CDF-27: Room 5</b>	<b>Classroom Drinking Fountain</b>	1	<b>1,400</b>
<b>122216-EDE-P-CF-28: Room 5</b>	<b>Classroom Faucet</b>	4	<b>1,400</b>
122216-EDE-P-CF-29: Room 6	Classroom Faucet	1	1,100
<b>122216-EDE-P-CDF-30: Room 6</b>	<b>Classroom Drinking Fountain</b>	<1.0	<b>1,300</b>
<b>122216-EDE-P-CF-31: Room 6</b>	<b>Classroom Faucet</b>	2	<b>1,300</b>
122216-EDE-P-CF-32: Room 7	Classroom Faucet	1	910
<b>122216-EDE-P-CDF-33: Room 7</b>	<b>Classroom Drinking Fountain</b>	<1.0	<b>1,500</b>
122216-EDE-P-CF-34: Room 9	Classroom Faucet	2	930
<b>122216-EDE-P-CDF-35: Room 9</b>	<b>Classroom Drinking Fountain</b>	<1.0	<b>1,300</b>
<b>122216-EDE-P-CF-36: Room 9</b>	<b>Classroom Faucet</b>	4	<b>1,500</b>
<b>122216-EDE-P-CF-37: Room 8</b>	<b>Classroom Faucet</b>	<1.0	<b>1,400</b>
<b>122216-EDE-P-CDF-38: Room 8</b>	<b>Classroom Drinking Fountain</b>	<1.0	<b>1,300</b>

Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
<b>122216-EDE-P-CF-39: Room 8</b>	<b>Classroom Faucet</b>	3	<b>1,300</b>
122216-EDE-P-CF-40: Music Room	Classroom Faucet	2	830
122216-EDE-P-CDF-41: Music Room	Classroom Drinking Fountain	1	1,000
122216-EDE-P-CF-42: Room 19	Classroom Faucet	2	900
<b>122216-EDE-P-CDF-43: Room 19</b>	<b>Classroom Drinking Fountain</b>	<1.0	<b>1,400</b>
122216-EDE-P-CF-44: Room 21	Classroom Faucet	2	1,200
<i>122216-EDE-P-KF-45: Laboratory Blank</i>	<i>Distilled Water Blank</i>	<1.0	<10
<i>122216-EDE-P-DF-46: Laboratory Spike</i>	<i>Lead and Copper Spike</i>	16	1,300
<b>EPA Action Level</b>		<b>15</b>	<b>1,300</b>

- 1 µg/L means microgram per liter or parts per billion (ppb).
- 2 Action levels based on the U.S. EPA's Lead and Copper Rule.

Results indicated in **bold** indicate concentrations above the action levels of 15 µg/L for lead and 1,300 µg/L for copper  
 Results indicated in *italics* are quality assurance spike and blank samples.

**Table 2: pH and Temperature Data Summary**

Sample Number	Fixture Type	pH Flush	pH Sample	Temperature (°C) Flush	Temperature (°C) Sample
122216-EDE-P-NF-01: Nurse's Office	Nurse's Faucet	7.91	7.76	20.0	19.1
122216-EDE-P-CF-05: Room 10	Classroom Faucet	7.66	7.65	22.3	21.5
122216-EDE-P-CF-09: Room 14	Classroom Faucet	7.69	7.72	21.5	21.8
122216-EDE-P-CF-13: Room 18	Classroom Faucet	7.55	7.67	21.9	22.0
122216-EDE-P-CF-17: Room 15	Classroom Faucet	7.77	7.70	21.1	21.8
122216-EDE-P-CDF-21: Room 1	Classroom Drinking Fountain	7.70	7.81	20.0	19.0
122216-EDE-P-CF-25: Room 3	Classroom Faucet	7.70	7.89	19.5	19.4
122216-EDE-P-CF-29: Room 6	Classroom Faucet	7.83	7.73	21.2	19.5
122216-EDE-P-CDF-33: Room 7	Classroom Drinking Fountain	7.65	7.77	20.1	20.1
122216-EDE-P-CDF-33: Room 7	Classroom Faucet	7.78	7.76	20.1	19.9
122216-EDE-P-CDF-41: Music Room	Classroom Drinking Fountain	7.67	7.68	20.8	21.2



**Table 3: Remedial Sampling Analytical Results**

Sampling Event	Sample Identification																											
	CF-05	CF-06	CF-08	CF-09	CF-10	CF-12	CF-13	CF-14	CF-16	CF-17	CF-18	CF-19	CF-22	CF-24	CF-25	CF-27	CF-28	CF-30	CF-31	CF-33	CF-35	CF-36	CF-37	CF-38	CF-39	CF-43	Laboratory Blank (-45)	Laboratory Spike (46)
Initial (12/22/16)	<b>1,300</b>	<b>1,400</b>	<b>1,300</b>	<b>1,300</b>	<b>1,500</b>	<b>1,500</b>	<b>1,300</b>	<b>1,400</b>	<b>1,500</b>	<b>1,300</b>	<b>1,400</b>	<b>1,500</b>	<b>1,500</b>	<b>1,500</b>	<b>1,500</b>	<b>1,400</b>	<b>1,400</b>	<b>1,300</b>	<b>1,300</b>	<b>1,500</b>	<b>1,300</b>	<b>1,500</b>	<b>1,400</b>	<b>1,300</b>	<b>1,300</b>	<b>1,400</b>	<i>&lt;10</i>	<i>1,300</i>
Aggressive Flush (3/4/17)	565	799	1,050	586	914	787	633	908	786	603	1,040	965	867	838	763	771	704	1,040	933	766	986	762	595	936	769	795	<i>0.524</i>	<i>1,110</i>
<b>EPA Action Level</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>	<b>1,300</b>

1 µg/L means microgram per liter or parts per billion (ppb).

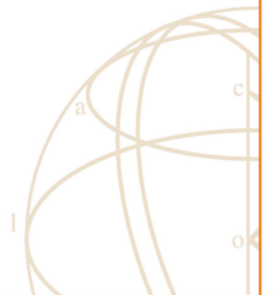
2 Action levels based on the U.S. EPA's Lead and Copper Rule.

Results indicated in **bold** indicate concentrations above the action levels of 15 µg/L for lead and 1,300 µg/L for copper

Results indicated in *italics* are quality assurance spike and blank samples.

**ATTACHMENT D**

Initial Analytical Results





RJ LeeGroup, Inc. | Columbia Basin Analytical Laboratories

2710 North 20th Avenue, Pasco WA 99301

Tel: (509) 545-4989 | Fax: (509) 544-6010

Fulcrum Environmental  
406 N. 2nd St.  
Yakima, WA 98901

### Subject: Chemical Analysis Report

Columbia Basin Analytical Laboratories received 46 sample(s) on 12/22/16 for analysis. These sample(s) have been assigned a login order number of W612124. Enclosed is the final report that consists of a summary report of the sample(s), and a copy of the chain of custody.

### General Lab Comments

The results provided in this report relate only to the items tested. Sample(s) were received in acceptable conditions unless otherwise noted in the comments above. Sample(s) have not been field blank corrected unless otherwise noted in the general set comments above. The sample(s) were prepared in accordance with EPA 200.8 and analyzed in compliance with EPA 200.8. This test report shall not be reproduced, except in full, without written approval of Columbia Basin Analytical Laboratories. Any questions, please contact our office.

*All samples were diluted 1:10. Samples that exceeded the instrument calibration range were rerun at a 1:100 dilution, necessitating a 10-fold increase in the PQL. Each is noted with an "X" qualifier.*

Release of the data contained in the hard copy report has been authorized by the Laboratory Director or a designee as verified by the following signature. This report has been administratively reviewed by the following individual:

02/22/17

Project Coordinator II, M. Fernanda Pincheira

Date

If you have any questions please feel free to contact Fernanda Pincheira at [MPincheira@rjleegroup.com](mailto:MPincheira@rjleegroup.com).



## Laboratory Report

Ryan Mathews  
Fulcrum Environmental  
406 N. 2nd St.  
Yakima, WA 98901

RJ Lee Group No.: W612124  
COC No.: Kennewick  
Samples Received: 12/22/16  
Analysis/Prep Date: 02/21/17  
Report Date: 02/22/17

Client Project:

Fulcrum Kennewick

**Sample Name:** 122216-EDE-P-NF-01 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-01 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-KF-02 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-02 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.1	0.1	X
Lead	EPA 200.8	0.008	0.001	

**Sample Name:** 122216-EDE-P-KF-03 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-03 **Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.94	0.01	
Lead	EPA 200.8	0.005	0.001	

**Sample Name:** 122216-EDE-P-KF-04 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-04 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.1	0.1	X
Lead	EPA 200.8	0.003	0.001	

**Sample Name:** 122216-EDE-P-CF-05 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-05 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.001	0.001	

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Report Template: GenMetalReportFull\_v12.rpt

Approved: 02/22/17 14:03  
Report Time Stamp: 02/22/17 15:12





**Sample Name:** 122216-EDE-P-CDF-06 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-06 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-07 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-07 **Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.99	0.01	
Lead	EPA 200.8	0.001	0.001	

**Sample Name:** 122216-EDE-P-CDF-08 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-08 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-09 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-09 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CDF-10 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-10 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-11 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-11 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.1	0.1	X
Lead	EPA 200.8	0.001	0.001	



**Sample Name:** 122216-EDE-P-CDF-12 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-12 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-13 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-13 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.001	0.001	

**Sample Name:** 122216-EDE-P-CDF-14 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-14 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-15 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-15 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	0.001	0.001	

**Sample Name:** 122216-EDE-P-CDF-16 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-16 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-17 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-17 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.001	0.001	



**Sample Name:** 122216-EDE-P-CDF-18 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-18 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-19 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-19 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.004	0.001	

**Sample Name:** 122216-EDE-P-CF-20 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-20 **Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.65	0.01	
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-CDF-21 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-21 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-22 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-22 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.003	0.001	

**Sample Name:** 122216-EDE-P-CF-23 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-23 **Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.99	0.01	
Lead	EPA 200.8	0.001	0.001	



**Sample Name:** 122216-EDE-P-CDF-24  
**RJ Lee Grp. ID:** W612124-24

**Matrix:** Potable Water

**Date Received:** 12/22/16

**Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-CF-25  
**RJ Lee Grp. ID:** W612124-25

**Matrix:** Potable Water

**Date Received:** 12/22/16

**Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-CF-26  
**RJ Lee Grp. ID:** W612124-26

**Matrix:** Potable Water

**Date Received:** 12/22/16

**Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.89	0.01	
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-CDF-27  
**RJ Lee Grp. ID:** W612124-27

**Matrix:** Potable Water

**Date Received:** 12/22/16

**Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	0.001	0.001	

**Sample Name:** 122216-EDE-P-CF-28  
**RJ Lee Grp. ID:** W612124-28

**Matrix:** Potable Water

**Date Received:** 12/22/16

**Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	0.004	0.001	

**Sample Name:** 122216-EDE-P-CF-29  
**RJ Lee Grp. ID:** W612124-29

**Matrix:** Potable Water

**Date Received:** 12/22/16

**Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.1	0.1	X
Lead	EPA 200.8	0.001	0.001	



**Sample Name:** 122216-EDE-P-CDF-30 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-30 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-31 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-31 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-CF-32 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-32 **Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.91	0.01	
Lead	EPA 200.8	0.001	0.001	

**Sample Name:** 122216-EDE-P-CDF-33 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-33 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-34 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-34 **Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.93	0.01	
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-CDF-35 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-35 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	



**Sample Name:** 122216-EDE-P-CF-36 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-36 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.004	0.001	

**Sample Name:** 122216-EDE-P-CF-37 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-37 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CDF-38 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-38 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-39 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-39 **Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.003	0.001	

**Sample Name:** 122216-EDE-P-CF-40 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-40 **Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.83	0.01	
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-CDF-41 **Matrix:** Potable Water **Date Received:** 12/22/16  
**RJ Lee Grp. ID:** W612124-41 **Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.00	0.01	
Lead	EPA 200.8	0.001	0.001	



**Sample Name:** 122216-EDE-P-CF-42 **Matrix:** Potable Water  
**RJ Lee Grp. ID:** W612124-42

**Date Received:** 12/22/16  
**Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.90	0.01	
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-CDF-43 **Matrix:** Potable Water  
**RJ Lee Grp. ID:** W612124-43

**Date Received:** 12/22/16  
**Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-CF-44 **Matrix:** Potable Water  
**RJ Lee Grp. ID:** W612124-44

**Date Received:** 12/22/16  
**Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.2	0.1	X
Lead	EPA 200.8	0.002	0.001	

**Sample Name:** 122216-EDE-P-KF-45 **Matrix:** Potable Water  
**RJ Lee Grp. ID:** W612124-45

**Date Received:** 12/22/16  
**Date Analyzed:** 02/16/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	< 0.010	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

**Sample Name:** 122216-EDE-P-DF-46 **Matrix:** Potable Water  
**RJ Lee Grp. ID:** W612124-46

**Date Received:** 12/22/16  
**Date Analyzed:** 02/21/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.016	0.001	




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**Report Qualifiers:**

*A = Target Analyte media breakthrough suspect, see analytical report*

*D = Analyte analyzed in a dilution*

*E = Report concentration was above the instrument calibration range*

*J = Analyte detected below quantitation limits, concentration is estimated*

*P = Library spectrum match,  $rsd > 90\%$  w RT match*

*Q = Result out of method specific acceptance QC criteria*

*S = Spike Recovery outside accepted recovery limits*

*Z = Not ELAP accredited analyte*

*ND = Not Detected*

*B = Analyte detected in the associated blank*

*d = Data that exceeds the RSD criteria set by the SOP*

*H = Holding times for preparation or analysis exceeded*

*L = Sample condition at receipt out of compliance with method defined conditions*

*R = RPD (relative percent difference) outside accepted recovery limits*

*U = Analyte analyzed for but not detected*

*N/A = Not Applicable*

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**Scientist II DeNomy Dage**

*These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any samples. Unless otherwise noted, samples were received in an acceptable condition. This laboratory operates in accordance with ISO 17025 guidelines, and holds limited scopes of accreditation under ORELAP Lab Code 4061 AIHA-LAP, LLC Lab ID 178656 EPA ID WA01195 and WA DOE Lab ID C859. This report may not be used to claim product endorsement by any laboratory accrediting agency. The results contained in this report relate only to the items tested or to the sample(s) as received by the laboratory. Any reproduction of this document must be in full for the report to be valid. Quality control data is available upon request.*



# Request for Environmental and IH Laboratory Analytical Services

W612124

ATTENTION TO: <b>RYAN MATHEWS</b>		Client No.:		Purchase Order No.:		Client Job No.:	
Lab Use Only		Project No.:		Standard: Yes <input type="checkbox"/> No <input type="checkbox"/>		If 'No', No. of Business Days:	
Report Results To		Date Logged In:		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):			
Name: Amanda Enbyk, Ryan Mathews		Logged In By:		System ID #:			
Company: Fulcrum Environmental Consulting				DOH Source #:			
Address: 406 North 2nd Street				Multiple Sources #s:			
City, State, Zip: Yakima, WA, 98901				Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>			
Phone: (509) 574-0839		Fax: (509) 575-8453		Preservation: Unpres <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/>		Matrix: WW=Wastewater <input type="checkbox"/> GW=Groundwater <input type="checkbox"/> S=Soil/Sludge <input type="checkbox"/> E=Extract <input type="checkbox"/>	
Call with Verbal Results:		Email Results To: aenbyk@fulcrum.net, CC: rmathews@fulcrum.net		HNO <sub>3</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> Na <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Other <input type="checkbox"/>		SW=Surface Water <input type="checkbox"/> DW=Drinking Water <input type="checkbox"/> O=Oil <input type="checkbox"/> X=Other <input type="checkbox"/>	
Fax Results To:		Name: Lorrie Boutillier		Other <input type="checkbox"/>		Container: P=Plastic <input type="checkbox"/> G=Glass <input type="checkbox"/> W=Wipe <input type="checkbox"/> A=Air (filter or tube) <input type="checkbox"/>	
Send Invoice To		Company: Fulcrum Environmental		Email: lboutillier@fulcrum.net			
Address: 406 North 2nd Street							
City, State, Zip: Yakima, WA, 98901							
Phone: (509) 574-0839							
Fax: (509) 575-8453							
Special Instructions							
Client Sample ID		Sample Description		Sample Date		Sample Time	
				Start		Stop	
				Wipe Area / Air Volume			
122216-EDF-R-NF-01		Heal/H-I-auct		12/22			
122216-EDF-R-KF-02		Kitchen N					
122216-EDF-R-KF-03		Kitchen W					
122216-EDF-R-KF-04		Kitchen S					
122216-EDF-R-CE-05		Rm Disk					
122216-EDF-R-CE-06		Rm 10 DE					
122216-EDF-R-CE-07		Rm 12 Sink					
122216-EDF-R-CE-08		Rm 12 DE					
122216-EDF-R-CE-09		Rm 14 Sink					
122216-EDF-R-CE-10		Rm 14 DE					
122216-EDF-R-CE-11		Rm 16 Sink					
Chain of Custody		Relinquished By (Signature):		Date: 12/22		Time: 1315	
Relinquished By (Print Name):		Relinquished To:		Method of Shipment:			
Company Name:		Date: 12/22		Time: 1315			
Chain of Custody		Relinquished By (Signature):		Date:		Time:	
Relinquished By (Print Name):		Relinquished To:		Method of Shipment:			
Company Name:		Date:		Time:			
Chain of Custody		Received By (Signature):		Date:		Time:	
Received By (Print Name):		Received To:		Method of Shipment:			
Company Name:		Date:		Time:			
Chain of Custody		Received By (Signature):		Date:		Time:	
Received By (Print Name):		Received To:		Method of Shipment:			
Company Name:		Date:		Time:			

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**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

# Request for Environmental and IH Laboratory Analytical Services

ATTENTION TO: <b>RYAN MATHEWS</b>		Client No.:	Client Job No.:		<b>162017</b>
Lab Use Only	Project No.:	Client No.:	Purchase Order No.:		
	Date Logged In:	Logged In By:			
Report Results To	Name: Amanda Enbysk, Ryan Mathews		Turnaround Request		
	Company: Fulcrum Environmental Consulting		Standard: Yes	No	If 'No,' No. of Business Days:
	Address: 406 North 2nd Street		Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below):		
	City, State, Zip: Yakima, WA, 98901		System ID #:		
	Phone: (509) 574-0839	Fax: (509) 575-8453	DOH Source #:		
	Call with Verbal Results:		Multiple Sources #:		
	Email Results To: aenbysk@fulcrum.net, CC: rmathews@fulcrum.net		Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>		
	Fax Results To:		Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HNO <sub>3</sub> Other	Matrix: WW=Wastewater GW=Groundwater S=Soil/Sludge E=Extract	Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)
Send Invoice To	Name: Lorrie Boutilier		Analysis Requested		
	Company: Fulcrum Environmental	Email: lboutilier@fulcrum.net			
	Address: 406 North 2nd Street		Pres. Upon Receipt (Y/N)		
	City, State, Zip: Yakima, WA, 98901		UNPR. DW P		
	Phone: (509) 574-0839	Fax: (509) 575-8453	Preservation		
Special Instructions			Matrix		
			Container Type		
			pH		
			No. Containers		
Client Sample ID	Sample Description	Sample Date	Start	Stop	Wipe Area / Air Volume
122216-EDE-P-QP-12	Rm 16 DE	12/22			
122216-EDE-P-LF-13	Rm 18 SINK				
122216-EDE-P-ODF-14	Rm 19 SINK				
122216-EDE-P-CF-15	Rm 17 SINK				
122216-EDE-P-QP-16	Rm 17 DF				
122216-EDE-P-LF-17	Rm 15 SINK				
122216-EDE-P-QP-18	Rm 15 DF				
122216-EDE-P-CF-19	Rm 15 faucet				
122216-EDE-P-CF-20	Rm 1 SINK				
122216-EDE-P-QP-21	Rm 1 DE				
122216-EDE-P-CF-22	Rm 1 Faucet				
Chain of Custody	Relinquished By (Signature):	Date: 12/22	Time: 1315		
	Relinquished By (Print Name): Logan Lopez	Method of Shipment:			
Chain of Custody	Relinquished By (Signature):	Date:	Time:		
	Relinquished By (Print Name):	Method of Shipment:			
Chain of Custody	Received By (Signature):	Date: DEC 22 2016	Time: 1315		
	Received By (Print Name):	Method of Shipment:			
Chain of Custody	Received By (Signature):	Date:	Time:		
	Received By (Print Name):	Method of Shipment:			

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2710 North 20th Avenue  
Pasco, WA 99301  
509.545.4989 Phone  
509.544.6010 Fax



# Request for Environmental and IH Laboratory Analytical Services

ATTENTION TO: <b>RYAN MATHEWS</b>		Client No: _____		Purchase Order No.: _____		Client Job No.: _____		162017		
Lab Use Only	Project No.: _____ Date Logged In: _____	Client No: _____	Logged In By: _____	Turnaround Request	Standard: Yes <input type="checkbox"/> No <input type="checkbox"/>	If 'No', No. of Business Days: _____	Accreditation (please list below): _____			
Report Results To	Name: Amanda Embysk, Ryan Mathews	Company: Fulcrum Environmental Consulting		Drinking Water Sample Only	Sample Purpose: Information <input checked="" type="checkbox"/> Regulatory <input type="checkbox"/>	Sample Purpose: Information X Regulatory <input type="checkbox"/> Accreditation (please list below): _____				
	Address: 406 North 2nd Street	City, State, Zip: Yakima, WA, 98901			System ID #: _____	DOH Source #: _____	Multiple Sources #: _____			
	Phone: (509) 574-0839	Fax: (509) 575-8453			Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>	Preservation: Unpres <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> 4°C <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> Na <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Other <input type="checkbox"/>	Matrix: WW=Wastewater <input type="checkbox"/> GW=Groundwater <input type="checkbox"/> S=Soil/Sludge <input type="checkbox"/> E=Extract <input type="checkbox"/>	Container: P=Plastic <input type="checkbox"/> G=Glass <input type="checkbox"/> W=Wipe <input type="checkbox"/> A=Air (filter or tube) <input type="checkbox"/>		
Send Invoice To	Name: Lorrie Bourtilier	Company: Fulcrum Environmental		Chemistry Analysis Key		Analysis Requested				
Special Instructions	Address: 406 North 2nd Street	City, State, Zip: Yakima, WA, 98901		EPA 200.8: Pb, Cu		Pres. Upon Receipt (Y/N)				
	Phone: (509) 574-0839	Fax: (509) 575-8453				Preservation	Matrix	Container Type	pH	No. Containers
Client Sample ID	Sample Description	Sample Date	Sample Time	Wipe Area / Air Volume						
122216-EDF-P-CF-25	Rm 3 Sink	12/22							16.8	
122216-EDF-P-CF-24	Rm 3 DF								17.3	
122216-EDF-P-CF-25	Rm 3 Faucet								17.3	
122216-EDF-P-CF-26	Rm 5 Sink								17.8	
122216-EDF-P-CF-27	Rm 5 DF								17.8	
122216-EDF-P-CF-28	Rm 5 Faucet								17.8	
122216-EDF-P-CF-29	Rm 6 Sink								16.7	
122216-EDF-P-CF-30	Rm 6 DF								16.5	
122216-EDF-P-CF-31	Rm 6 Faucet								16.4	
122216-EDF-P-CF-32	Rm 7 Sink								17.2	
122216-EDF-P-CF-33	Rm 7 DF								17.2	
Chain of Custody	Relinquished By (Signature): _____ Relinquished By (Print Name): _____ Company Name: _____	Date: 12/22	Time: 1315	Chain of Custody	Received By (Signature): _____ Received By (Print Name): _____ Company Name: _____	Date: DEC 22 2016	Time: 1315			
Chain of Custody	Relinquished By (Signature): _____ Relinquished By (Print Name): _____ Company Name: _____	Date: _____	Time: _____	Chain of Custody	Received By (Signature): _____ Received By (Print Name): _____ Company Name: _____	Date: _____	Time: _____			

Pennsylvania - HQ  
350 Hochberg Road  
Montroeville, PA 15146

Washington  
Columbia Basin Analytical Laboratories  
2710 North 20th Avenue  
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724.733.1799 Fax

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509.544.6010 Fax



# Request for Environmental and IH Laboratory Analytical Services

<b>ATTENTION TO:</b> RYAN MATHEWS		<b>Client No.:</b>		<b>Purchase Order No.:</b>		<b>Client Job No.:</b>	
<b>Lab Use Only</b>		<b>Project No.:</b>		<b>Standard:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>		<b>If 'No', No. of Business Days:</b>	
<b>Date Logged In:</b>		<b>Logged In By:</b>		<b>Sample Purpose:</b> Information <input checked="" type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):			
<b>Name:</b> Amanda Enbysk, Ryan Mathews		<b>Company:</b> Fulcrum Environmental Consulting		<b>System ID #:</b>			
<b>Address:</b> 406 North 2nd Street		<b>City, State, Zip:</b> Yakima, WA, 98901		<b>DOH Source #:</b>			
<b>Phone:</b> (509) 574-0839		<b>Fax:</b> (509) 575-8453		<b>Multiple Sources #:</b>			
<b>Call with Verbal Results:</b>		<b>Email Results To:</b> aenbysk@fulcrum.net, CC: mathews@fulcrum.net		<b>Sample Purpose:</b> A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>			
<b>Fax Results To:</b>		<b>Name:</b> Lorrie Boutillier		<b>Matrix:</b> WW=Wastewater GW=Groundwater S=Soil/Sludge E=Extract		<b>Container:</b> P=Plastic G=Glass W=Wipe A=Air (filter or tube)	
<b>Send Invoice To</b>		<b>Company:</b> Fulcrum Environmental		<b>Email:</b> lboutillier@fulcrum.net			
<b>Address:</b> 406 North 2nd Street		<b>City, State, Zip:</b> Yakima, WA, 98901		<b>Phone:</b> (509) 574-0839		<b>Fax:</b> (509) 575-8453	
<b>Special Instructions</b>				<b>EPA 200.8:</b> Pb, Cu			
<b>Client Sample ID</b>		<b>Sample Description</b>		<b>Sample Date</b>		<b>Sample Time</b>	
				<b>Start</b>		<b>Stop</b>	
				<b>Wipe Area / Volume</b>			
122216-EDF-P-CF-34		Rm 9 Sink		12/22			
122216-EDF-P-CD-35		Rm 9 DF					
122216-EDF-P-CF-36		Rm 9 Faucet					
122216-EDF-P-CF-37		Rm 8 Sink					
122216-EDF-P-CD-38		Rm 8 DF					
122216-EDF-P-CF-39		Rm 8 Faucet					
122216-EDF-P-CF-40		Magic Sink					
122216-EDF-P-CD-41		Magic DF					
122216-EDF-P-CF-42		Rm 19 Sink					
122216-EDF-P-CD-43		Rm 19 DF					
122216-EDF-P-CF-44		Rm 21 Sink					
<b>Chain of Custody</b>		<b>Relinquished By (Signature):</b>		<b>Date:</b> 12/22		<b>Time:</b> 1:15	
<b>Relinquished By (Print Name):</b>		<b>Relinquished To:</b>		<b>Method of Shipment:</b>			
<b>Company Name:</b>							
<b>Chain of Custody</b>		<b>Received By (Signature):</b>		<b>Date:</b> DEC 22 2016		<b>Time:</b> 1:15	
<b>Relinquished By (Print Name):</b>		<b>Received By (Print Name):</b>		<b>Method of Shipment:</b>			
<b>Company Name:</b>							
<b>Chain of Custody</b>		<b>Received By (Signature):</b>		<b>Date:</b>		<b>Time:</b>	
<b>Relinquished By (Print Name):</b>		<b>Received By (Print Name):</b>		<b>Method of Shipment:</b>			
<b>Company Name:</b>							

Pennsylvania - HQ  
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**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

# Request for Environmental and IH Laboratory Analytical Services

<b>ATTENTION TO: RYAN MATHEWS</b>				<b>Client Job No.: 162017</b>		
<b>Lab Use Only</b>	<b>Project No.:</b> Date Logged In: Logged In By:			<b>Client No.:</b>		
<b>Report Results To</b>	<b>Name:</b> Amanda Enbysk, Ryan Mathews			<b>Turnaround Request</b>		
	<b>Company:</b> Fulcrum Environmental Consulting			<b>Standard:</b> Yes <input type="checkbox"/> No <input type="checkbox"/>	<b>If 'No,' No. of Business Days:</b>	
	<b>Address:</b> 406 North 2nd Street			<b>Sample Purpose:</b> Information <input checked="" type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):		
	<b>City, State, Zip:</b> Yakima, WA, 98901			<b>System ID #:</b>	<b>DOH Source #:</b>	
<b>Send Invoice To</b>	<b>Phone:</b> (509) 574-0839 <b>Fax:</b> (509) 575-8453			<b>Multiple Sources #:</b>		
	<b>Call with Verbal Results:</b>			<b>Sample Purpose:</b> A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>		
	<b>Email Results To:</b> aenbysk@fulcrum.net, CC: rmathews@fulcrum.net			<b>Preservation:</b> H <sub>2</sub> SO <sub>4</sub> Matrix: WW=Wastewater    SW=Surface Water    P=Plastic		
	<b>Fax Results To:</b>			4 °C    HCl    GW=Groundwater    DW=Drinking Water    G=Glass		
<b>Special Instructions</b>		<b>Name:</b> Lorrie Boultiller		<b>O=Oil</b>		
<b>Send Invoice To</b>		<b>Company:</b> Fulcrum Environmental		<b>E=Extract</b>		
		<b>Address:</b> 406 North 2nd Street		<b>X=Other</b>		
		<b>City, State, Zip:</b> Yakima, WA, 98901		<b>Container:</b> W=Wipe    A=Air (filter or tube)		
		<b>Phone:</b> (509) 574-0839 <b>Fax:</b> (509) 575-8453		<b>No. Containers</b>		
<b>Client Sample ID</b>		<b>Sample Description</b>		<b>Analysis Requested</b>		
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	122216-EDF-P-VE-45	Home Ec	12/22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	122216-EDF-P-DF--46	GYM DE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Chain of Custody</b>	<b>Relinquished By (Signature):</b>	<b>Date:</b> 12/22	<b>Time:</b> 1315	<b>Received By (Signature):</b>	<b>Date:</b> DEC 22 2016	<b>Time:</b> 1411
<b>Chain of Custody</b>	<b>Relinquished By (Print Name):</b> Logan Hope	<b>Relinquished To:</b>		<b>Received By (Print Name):</b> Doree	<b>Relinquished To:</b>	
	<b>Company Name:</b>	<b>Method of Shipment:</b>		<b>Company Name:</b>	<b>Method of Shipment:</b>	
	<b>Relinquished By (Signature):</b>	<b>Date:</b>	<b>Time:</b>	<b>Received By (Signature):</b>	<b>Date:</b>	<b>Time:</b>
	<b>Relinquished By (Print Name):</b>	<b>Relinquished To:</b>		<b>Received By (Print Name):</b>	<b>Relinquished To:</b>	
	<b>Company Name:</b>	<b>Method of Shipment:</b>		<b>Company Name:</b>	<b>Method of Shipment:</b>	

**Pennsylvania - HQ**  
350 Hochberg Road  
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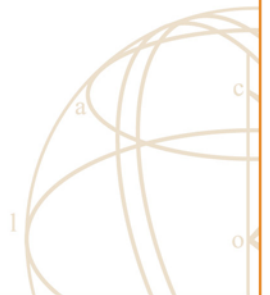
**Washington**  
Columbia Basin Analytical Laboratories  
2710 North 20th Avenue  
Pasco, WA 99301  
509.545.4989 Phone  
509.544.6010 Fax



**DELIVERING SCIENTIFIC RESOLUTION**

**ATTACHMENT E**

Remedial Analytical Results





3600 Fremont Ave. N.  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**Fulcrum Environmental**

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

**RE: Kennewick SD Drinking Water - Edison Elementary**  
**Work Order Number: 1703040**

March 10, 2017

**Attention Ryan Mathews:**

Fremont Analytical, Inc. received 36 sample(s) on 3/6/2017 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



**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Ele  
**Work Order:** 1703040

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1703040-001	EDE3417-P-CF-05	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-002	EDE3417-S-CF-05	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-003	EDE3417-T-CF-05	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-004	EDE3417-P-CDF-06	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-005	EDE3417-P-CDF-08	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-006	EDE3417-P-CDF-10	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-007	EDE3417-P-CDF-12	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-008	EDE3417-P-CF-13	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-009	EDE3417-S-CF-13	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-010	EDE3417-T-CF-13	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-011	EDE3417-P-CDF-14	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-012	EDE3417-P-CDF-16	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-013	EDE3417-P-CF-17	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-014	EDE3417-P-CDF-18	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-015	EDE3417-P-CF-19	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-016	EDE3417-P-CF-22	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-017	EDE3417-P-CDF-24	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-018	EDE3417-S-CDF-24	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-019	EDE3417-T-CDF-24	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-020	EDE3417-P-CF-25	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-021	EDE3417-P-CDF-27	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-022	EDE3417-P-CF-28	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-023	EDE3417-P-CDF-30	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-024	EDE3417-P-CF-31	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-025	EDE3417-P-CDF-33	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-026	EDE3417-P-CDF-35	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-027	EDE3417-P-CF-36	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-028	EDE3417-P-CF-37	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-029	EDE3417-S-CF-37	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-030	EDE3417-T-CF-37	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-031	EDE3417-P-CDF-38	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-032	EDE3417-P-CF-39	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-033	EDE3417-P-CDF-43	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-034	EDE3417-P-KF-45	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-035	EDE3417-P-DF-46	03/04/2017 10:30 AM	03/06/2017 8:47 AM
1703040-036	EDE3417-P-CF-09	03/04/2017 10:30 AM	03/06/2017 8:47 AM



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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

---

## 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:

1703040-001A 209701: Prep Comments for EPA200.8, Sample 1703040-001A: Turbidity: 0.00 NTU  
1703040-004A 209705: Prep Comments for EPA200.8, Sample 1703040-004A: Turbidity: 0.01 NTU  
1703040-005A 209706: Prep Comments for EPA200.8, Sample 1703040-005A: Turbidity: 0.01 NTU  
1703040-006A 209707: Prep Comments for EPA200.8, Sample 1703040-006A: Turbidity: 0.00 NTU  
1703040-007A 209708: Prep Comments for EPA200.8, Sample 1703040-007A: Turbidity: 0.00 NTU  
1703040-008A 209709: Prep Comments for EPA200.8, Sample 1703040-008A: Turbidity: 0.04 NTU  
1703040-011A 209710: Prep Comments for EPA200.8, Sample 1703040-011A: Turbidity: 0.00 NTU  
1703040-012A 209711: Prep Comments for EPA200.8, Sample 1703040-012A: Turbidity: 0.00 NTU  
1703040-013A 209712: Prep Comments for EPA200.8, Sample 1703040-013A: Turbidity: 0.01 NTU  
1703040-014A 209713: Prep Comments for EPA200.8, Sample 1703040-014A: Turbidity: 0.05 NTU  
1703040-015A 209714: Prep Comments for EPA200.8, Sample 1703040-015A: Turbidity: 0.04 NTU  
1703040-016A 209715: Prep Comments for EPA200.8, Sample 1703040-016A: Turbidity: 0.01 NTU  
1703040-017A 209716: Prep Comments for EPA200.8, Sample 1703040-017A: Turbidity: 0.00 NTU  
1703040-020A 209717: Prep Comments for EPA200.8, Sample 1703040-020A: Turbidity: 0.00 NTU  
1703040-021A 209718: Prep Comments for EPA200.8, Sample 1703040-021A: Turbidity: 0.00 NTU  
1703040-022A 209719: Prep Comments for EPA200.8, Sample 1703040-022A: Turbidity: 0.00 NTU  
1703040-023A 209720: Prep Comments for EPA200.8, Sample 1703040-023A: Turbidity: 0.00 NTU  
1703040-024A 209721: Prep Comments for EPA200.8, Sample 1703040-024A: Turbidity: 0.00 NTU  
1703040-025A 209722: Prep Comments for EPA200.8, Sample 1703040-025A: Turbidity: 0.00 NTU  
1703040-026A 209723: Prep Comments for EPA200.8, Sample 1703040-026A: Turbidity: 0.00 NTU  
1703040-027A 209726: Prep Comments for EPA200.8, Sample 1703040-027A: Turbidity: 0.00 NTU  
1703040-028A 209730: Prep Comments for EPA200.8, Sample 1703040-028A: Turbidity: 0.00 NTU  
1703040-031A 209731: Prep Comments for EPA200.8, Sample 1703040-031A: Turbidity: 0.00 NTU  
1703040-032A 209732: Prep Comments for EPA200.8, Sample 1703040-032A: Turbidity: 0.00 NTU  
1703040-033A 209733: Prep Comments for EPA200.8, Sample 1703040-033A: Turbidity: 0.00 NTU  
1703040-034A 209734: Prep Comments for EPA200.8, Sample 1703040-034A: Turbidity: 0.00 NTU  
1703040-035A 209735: Prep Comments for EPA200.8, Sample 1703040-035A: Turbidity: 0.00 NTU  
1703040-036A 209736: Prep Comments for EPA200.8, Sample 1703040-036A: 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  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-001      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CF-05      **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: 16427      Analyst: TN

Copper	565	0.500		µg/L	1	3/10/2017 2:15:17 PM
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**Lab ID:** 1703040-004      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-06      **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: 16427      Analyst: TN

Copper	799	0.500		µg/L	1	3/10/2017 2:39:29 PM
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**Lab ID:** 1703040-005      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-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: 16427      Analyst: TN

Copper	1,050	0.500		µg/L	1	3/10/2017 2:43:31 PM
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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-006      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-10      **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: 16427      Analyst: TN

Copper	914	0.500		µg/L	1	3/10/2017 2:47:33 PM
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**Lab ID:** 1703040-007      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-12      **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: 16427      Analyst: TN

Copper	787	0.500		µg/L	1	3/10/2017 2:51:34 PM
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**Lab ID:** 1703040-008      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CF-13      **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: 16427      Analyst: TN

Copper	633	0.500		µg/L	1	3/10/2017 2:55:36 PM
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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-011      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-14      **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: 16427      Analyst: TN

Copper	908	0.500		µg/L	1	3/10/2017 2:59:37 PM
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**Lab ID:** 1703040-012      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-16      **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: 16427      Analyst: TN

Copper	786	0.500		µg/L	1	3/10/2017 3:03:39 PM
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**Lab ID:** 1703040-013      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CF-17      **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: 16427      Analyst: TN

Copper	603	0.500		µg/L	1	3/10/2017 3:15:46 PM
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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-014      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-18      **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: 16427      Analyst: TN

Copper	1,040	0.500		µg/L	1	3/10/2017 3:19:48 PM
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**Lab ID:** 1703040-015      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CF-19      **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: 16427      Analyst: TN

Copper	965	0.500		µg/L	1	3/10/2017 3:23:49 PM
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**Lab ID:** 1703040-016      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CF-22      **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: 16427      Analyst: TN

Copper	867	0.500		µg/L	1	3/10/2017 3:27:51 PM
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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-017      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-24      **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: 16427      Analyst: TN

Copper	838	0.500		µg/L	1	3/10/2017 3:31:53 PM
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**Lab ID:** 1703040-020      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CF-25      **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: 16427      Analyst: TN

Copper	763	0.500		µg/L	1	3/10/2017 3:35:55 PM
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**Lab ID:** 1703040-021      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-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: 16427      Analyst: TN

Copper	771	0.500		µg/L	1	3/10/2017 3:39:56 PM
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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-022      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CF-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: 16427      Analyst: TN

Copper	704	0.500		µg/L	1	3/10/2017 3:43:58 PM
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**Lab ID:** 1703040-023      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-30      **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: 16427      Analyst: TN

Copper	1,040	0.500		µg/L	1	3/10/2017 3:48:00 PM
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**Lab ID:** 1703040-024      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CF-31      **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: 16427      Analyst: TN

Copper	933	0.500		µg/L	1	3/10/2017 3:52:01 PM
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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-025      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-33      **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: 16427      Analyst: TN

Copper	766	0.500		µg/L	1	3/10/2017 4:04:07 PM
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**Lab ID:** 1703040-026      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-35      **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: 16427      Analyst: TN

Copper	986	0.500		µg/L	1	3/10/2017 4:08:09 PM
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**Lab ID:** 1703040-027      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CF-36      **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: 16428      Analyst: TN

Copper	762	0.500		µg/L	1	3/10/2017 4:24:16 PM
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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-028      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-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: 16428      Analyst: TN

Copper	595	0.500		µg/L	1	3/10/2017 4:40:22 PM
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**Lab ID:** 1703040-031      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-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: 16428      Analyst: TN

Copper	936	0.500		µg/L	1	3/10/2017 4:52:30 PM
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**Lab ID:** 1703040-032      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-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: 16428      Analyst: TN

Copper	769	0.500		µg/L	1	3/10/2017 4:56:31 PM
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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-033      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-CDF-43      **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: 16428      Analyst: TN

Copper	795	0.500		µg/L	1	3/10/2017 5:00:33 PM
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**Lab ID:** 1703040-034      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-KF-45      **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: 16428      Analyst: TN

Copper	0.524	0.500		µg/L	1	3/10/2017 5:04:35 PM
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**Lab ID:** 1703040-035      **Collection Date:** 3/4/2017 10:30:00 AM  
**Client Sample ID:** EDE3417-P-DF-46      **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: 16428      Analyst: TN

Copper	1,110	0.500		µg/L	1	3/10/2017 5:08:37 PM
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**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Elementary

**Lab ID:** 1703040-036

**Collection Date:** 3/4/2017 10:30:00 AM

**Client Sample ID:** EDE3417-P-CF-09

**Matrix:** Drinking Water

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**Drinking Water Metals by EPA Method 200.8**

Batch ID: 16428

Analyst: TN

Copper	586	0.500		µg/L	1	3/10/2017 5:12:38 PM
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**Work Order:** 1703040  
**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Ele

**QC SUMMARY REPORT**  
**Drinking Water Metals by EPA Method 200.8**

Sample ID <b>MB-16428</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>3/6/2017</b>	RunNo: <b>34875</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>16428</b>	Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665889</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper ND 0.500

Sample ID <b>LCS-16428</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>3/6/2017</b>	RunNo: <b>34875</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>16428</b>	Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665890</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 89.7 0.500 100.0 0 89.7 85 115

Sample ID <b>1703040-027ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>3/6/2017</b>	RunNo: <b>34875</b>							
Client ID: <b>EDE3417-P-CF-36</b>	Batch ID: <b>16428</b>	Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665892</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 734 0.500 761.6 3.63 30

Sample ID <b>1703040-027AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>3/6/2017</b>	RunNo: <b>34875</b>							
Client ID: <b>EDE3417-P-CF-36</b>	Batch ID: <b>16428</b>	Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665893</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 941 0.500 200.0 761.6 89.7 70 130

Sample ID <b>1703040-027AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>3/6/2017</b>	RunNo: <b>34875</b>							
Client ID: <b>EDE3417-P-CF-36</b>	Batch ID: <b>16428</b>	Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665894</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 915 0.500 200.0 761.6 76.6 70 130 940.9 2.82 30

**Work Order:** 1703040  
**CLIENT:** Fulcrum Environmental  
**Project:** Kennewick SD Drinking Water - Edison Ele

**QC SUMMARY REPORT**  
**Drinking Water Metals by EPA Method 200.8**

Sample ID <b>MB-16427</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34874</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>16427</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665834</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper ND 0.500

Sample ID <b>LCS-16427</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34874</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>16427</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665835</b>					
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 <b>1703040-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34874</b>					
Client ID: <b>EDE3417-P-CF-05</b>	Batch ID: <b>16427</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665839</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 556 0.500 564.7 1.63 30

Sample ID <b>1703040-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34874</b>					
Client ID: <b>EDE3417-P-CF-05</b>	Batch ID: <b>16427</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665840</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 745 0.500 200.0 564.7 90.1 70 130

Sample ID <b>1703040-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>			Prep Date: <b>3/6/2017</b>	RunNo: <b>34874</b>					
Client ID: <b>EDE3417-P-CF-05</b>	Batch ID: <b>16427</b>				Analysis Date: <b>3/10/2017</b>	SeqNo: <b>665841</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Copper 708 0.500 200.0 564.7 71.7 70 130 744.8 5.05 30

Client Name: <b>FE</b>	Work Order Number: <b>1703040</b>
Logged by: <b>Clare Griggs</b>	Date Received: <b>3/6/2017 8:47:00 AM</b>

**Chain of Custody**

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      FedEx

**Log In**

3. Coolers are present?      Yes       No       NA
4. Shipping container/cooler in good condition?      Yes       No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact)      Yes       No       Not Required
6. Was an attempt made to cool the samples?      Yes       No       NA
7. Were all items received at a temperature of >0°C to 10.0°C\*      Yes       No       NA
8. Sample(s) in proper container(s)?      Yes       No
9. Sufficient sample volume for indicated test(s)?      Yes       No
10. Are samples properly preserved?      Yes       No
11. Was preservative added to bottles?      Yes       No       NA
- HNO3
12. Is there headspace in the VOA vials?      Yes       No       NA
13. Did all samples containers arrive in good condition(unbroken)?      Yes       No
14. Does paperwork match bottle labels?      Yes       No
15. Are matrices correctly identified on Chain of Custody?      Yes       No
16. Is it clear what analyses were requested?      Yes       No
17. Were all holding times able to be met?      Yes       No

**Special Handling (if applicable)**

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	5.6
Sample	1.8

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



# Chain of Custody Record and Laboratory Services Agreement

**3600 Fremont Ave N.  
Seattle, WA 98103**

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

**Date: 3/4/2017**

Laboratory Project No (Internal): **1703044D**

Page: 5 of 4

**Client:** Fulcrum Environmental Consulting  
**Address:** 406 North Second Street  
**City, State, Zip:** Yakima, WA, 98901  
**Telephone:** 509.574.0839

**Project Name:** Kennewick SD Drinking Water - Edison Elementary  
**Project No:** 162017.25  
**Location:** Edison Elementary, Kennewick, WA

**Report To (PM):** Ryan Mathews  
**PM Email:** rmathews@fulcrum.net; cc:aembysk@fulcrum.net

**Collected by:** *Cristina Sedyak*

\*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)*	Analytes											Comments			
				VOCs (EPA 8260 / 624)	GYBTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 / 608)	Total (T)   Dissolved (D)	Metals** (IC)***		EDB (8011)		
1 EDE347-P-CF-05	3/4/2017	1030	DW															HNO3 pres.
2 EDE347-S-CF-05																		HNO3 pres.
3 EDE347-T-CF-05																		HNO3 pres.
4 EDE347-P-COF-06																		HNO3 pres.
5 EDE347-P-COF-08																		
6 EDE347-P-COF-10																		
7 EDE347-P-COF-12																		
8 EDE347-P-CF-13																		
9 EDE347-S-CF-13																		
10 EDE347-T-CF-13																		

\*\*Metals Analysis (Circle): MITCA-5 RCA-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 Tl U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite  
 Sample Disposal:  Return to Client  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)  
 Turn-around times for samples received after 4:00pm will begin on the following business day.

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: *3/4/17 1300*  
 Relinquished  Date/Time: *3/16/17 0847*  
 Received  Date/Time: *3/16/17 0847*  
 Received  Date/Time: *3/16/17 0847*  
 TAT → SameDay^ NextDay^ 2 Day 3 Day STD  
 Please coordinate with the lab in advance







**Fremont**  
Analytical

**Chain of Custody Record and Laboratory Services Agreement**

3600 Fremont Ave N.  
Seattle, WA 98103

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: 509.575.8453

Project Name: Kennewick SD Drinking Water - Edison Elementary

Project No: 162017.25

Location: Edison Elementary, Kennewick, WA

Report To (PM): Ryan Matthews

PM Email: rmatthews@fulcrum.net, ce.aenbysk@fulcrum.net

Date: 3/4/2017

Laboratory Project No (Internal):

Page: 3 of 4

Collected by: *Carole Schyk*

\*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)*	VOCS (EPA 8260 / 624)	GW/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	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)	Comments	
1 EDE347-R-CDF-37	3/4/2017	1030	DW														HNO <sub>3</sub> preserved	
2 EDE347-R-CF-28																		
3 EDE347-R-CDF-30																		
4 EDE347-R-CF-31																		
5 EDE347-R-CDF-33																		
6 EDE347-R-CDF-35																		
7 EDE347-R-CF-36																		
8 EDE347-R-CF-37																		
9 EDE347-S-CF-37																		
10 EDE347-T-CF-37																		

\*\*Metals Analysis (Circle): MICA-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 Tl U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

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 \_\_\_\_\_

Received \_\_\_\_\_

Date/Time \_\_\_\_\_

Date/Time \_\_\_\_\_

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

Requiring \_\_\_\_\_ Date/Time \_\_\_\_\_

Received \_\_\_\_\_

Date/Time \_\_\_\_\_

Date/Time \_\_\_\_\_

Requiring \_\_\_\_\_ Date/Time \_\_\_\_\_

Received \_\_\_\_\_

Date/Time \_\_\_\_\_

Date/Time \_\_\_\_\_

\*Please coordinate with the lab in advance



# Fremont Analytical

3600 Fremont Ave N.  
Seattle, WA 98103

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

## Chain of Custody Record and Laboratory Services Agreement

Date: 3/4/2017

Laboratory Project No (Internal): \_\_\_\_\_

Page: 4 of 4

Client: Fulcrum Environmental Consulting

Project Name: Kennewick SD Drinking Water - Edison Elementary

Address: 406 North Second Street

Project No: 162017.25  
Location: Edison Elementary, Kennewick, WA

City, State, Zip: Yakima, WA, 98901

Report To (PM): Ryan Mathews

Telephone: 509.574.0839

Fax: 509.575.8453

PM Email: mathews@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)*	Analytes												Comments	
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (Cl)**		EDB (8011)
1 EDE347-R-COF-38	3/4/2017	1030	DW														
2 EDE347-R-CF-39																	
3 EDE347-R-COF-43																	
4 EDE347-R-KF-45																	
5 EDE347-R-DF-46																	
6 EDE347-R-CF-09																	
7																	
8																	
9																	
10																	

\*\*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 Tl U V Zn

\*\*\*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.

Sample Disposal:  Return to Client  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 3/14/17 Date/Time 1300 Received 3/16/17 Date/Time 0847  
Relinquished \_\_\_\_\_ Date/Time \_\_\_\_\_ Received \_\_\_\_\_ Date/Time \_\_\_\_\_