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
Southridge High School, 3520 Southridge Boulevard, Kennewick, Washington

Dear Keith:

On Thursday, December 22, 2016, Fulcrum Environmental Consulting, Inc. (Fulcrum) collected 39 drinking water samples for lead and copper analysis from Southridge High School (School) located at 3520 Southridge Boulevard in Kennewick, Washington. Initial sampling identified 21 fixture locations with copper concentrations above guidance levels. Fulcrum returned to the School on April 5, 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[1]. 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 21 samples with copper concentrations above the Environmental Protection Agency (EPA) action level of 1,300 micrograms per liter (µg/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, installed filtered bottle filling fountains, and removed fixtures that did not respond to aggressive flushing permanently from service. Fulcrum returned on April 5, 2017 and

[1] 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

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collected samples to evaluate the success of the remediation. Most follow-up samples yielded results below the EPA action level, confirming the remediation was successful. A total of six fixtures, all water cooler fountains, did not respond to remediation and remained above the action level. Fulcrum recommended, and the District elected, to permanently remove the fixtures from service. Following sampling and review of laboratory results, Fulcrum recommended, and District elected, to return all fixtures reporting below action levels 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). See Figure 1-A and 1-B 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.

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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

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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-A and 1-B 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-A and 1-B 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 21 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 and installed filtered bottle filling fountains to replace most

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water cooler fountains that produced elevated copper concentrations. Fulcrum returned on the morning following the remediation, April 5, 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 all but six of the fixtures. Fulcrum recommended, and the District elected, to permanently remove the remaining six fixtures permanently from service.

Recommendations

No samples were found to contain lead concentrations above the EPA action level of 15 µg/L. A total of 21 initial samples contained copper above the EPA action level of 1,300 µg/L. The District completed an aggressive flush and replaced identified water cooler fountains with filtered bottle filler fountains to reduce the copper concentration of the fixtures. Follow-up sampling yielded results below the EPA action level for all but six fixtures. Fulcrum recommended, and the District elected, to permanently remove the remaining fixtures from service. Following sampling and review of laboratory results, Fulcrum recommended and the District elected to return all fixtures reporting below action levels 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 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

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ATTACHMENT A

Figure 1-A: Sample Location Map – First Floor
Figure 1-B: Sample Location Map – Second Floor

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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

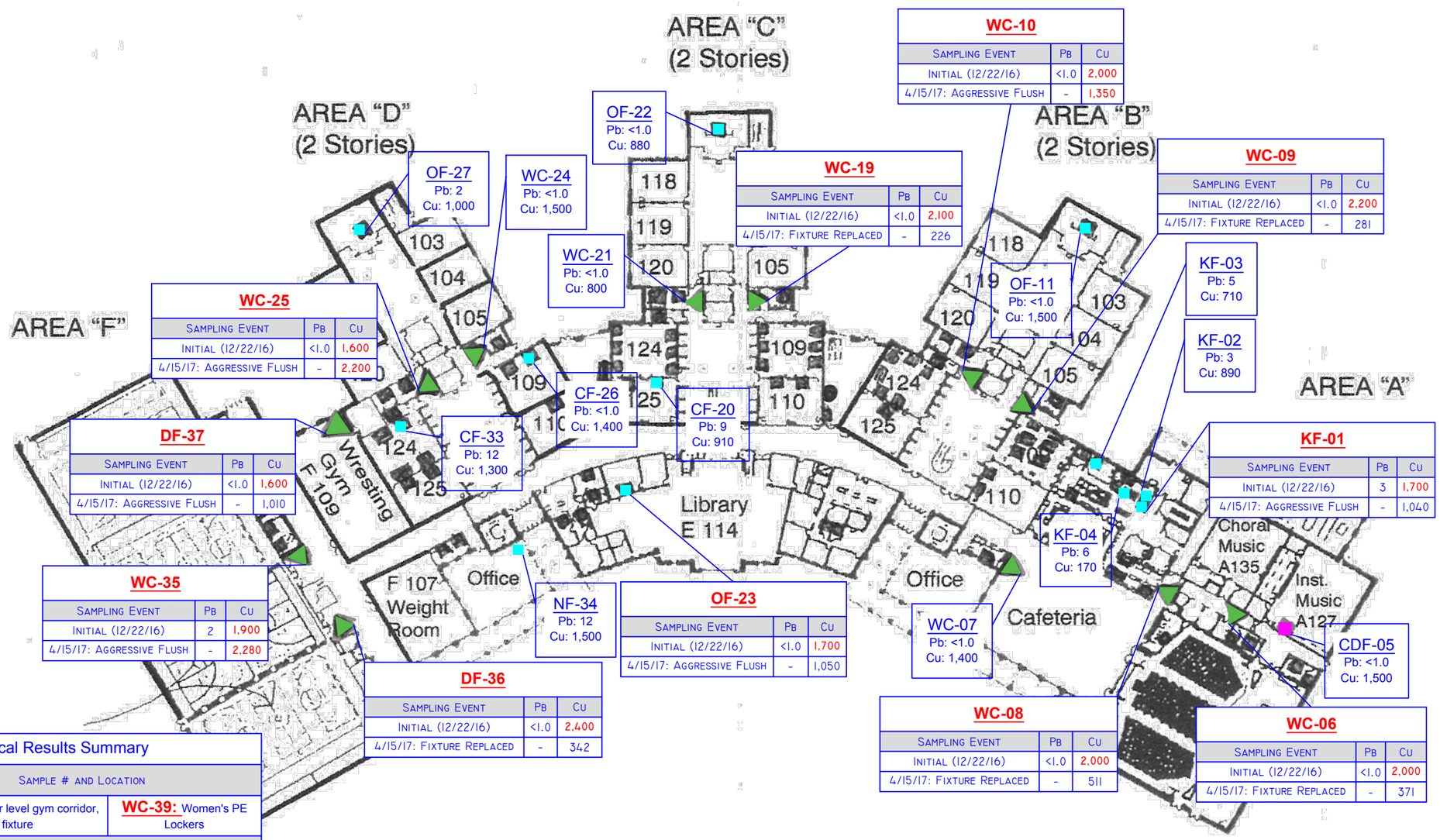
- - Sample location: drinking fountain at sink

- - 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.



WC-10

Sampling Event	Pb	Cu
Initial (12/22/16)	<1.0	2,000
4/15/17: Aggressive Flush	-	1,350

WC-19

Sampling Event	Pb	Cu
Initial (12/22/16)	<1.0	2,100
4/15/17: Fixture Replaced	-	226

WC-09

Sampling Event	Pb	Cu
Initial (12/22/16)	<1.0	2,200
4/15/17: Fixture Replaced	-	281

WC-25

Sampling Event	Pb	Cu
Initial (12/22/16)	<1.0	1,600
4/15/17: Aggressive Flush	-	2,200

DF-37

Sampling Event	Pb	Cu
Initial (12/22/16)	<1.0	1,600
4/15/17: Aggressive Flush	-	1,010

KF-01

Sampling Event	Pb	Cu
Initial (12/22/16)	3	1,700
4/15/17: Aggressive Flush	-	1,040

WC-35

Sampling Event	Pb	Cu
Initial (12/22/16)	2	1,900
4/15/17: Aggressive Flush	-	2,280

DF-36

Sampling Event	Pb	Cu
Initial (12/22/16)	<1.0	2,400
4/15/17: Fixture Replaced	-	342

OF-23

Sampling Event	Pb	Cu
Initial (12/22/16)	<1.0	1,700
4/15/17: Aggressive Flush	-	1,050

WC-08

Sampling Event	Pb	Cu
Initial (12/22/16)	<1.0	2,000
4/15/17: Fixture Replaced	-	511

WC-06

Sampling Event	Pb	Cu
Initial (12/22/16)	<1.0	2,000
4/15/17: Fixture Replaced	-	371

Lower Level Analytical Results Summary

Sampling Event	Sample # and Location	
	WC-38: Lower level gym corridor, right fixture	**WC-39:** Women's PE Lockers
Lead Results		
Initial (12/22/16)	<1.0	<1.0
Copper Results		
Initial (12/21/16)	2,000	2,000
4/15/17: Aggressive Flush and Fixture Replacement	1,320	113

Drawing provided by Kennewick School District

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Kennewick SD Drinking Water Sampling. 162017.00. AME. 10312017

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Sample Location Map - First Floor

FIGURE
1-A

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LEGEND

KF-## - Kitchen faucet

CF-## - Classroom faucet

CDF-## - Classroom drinking fountain

OF-## - Office faucet

WC-## - Water cooler fountain

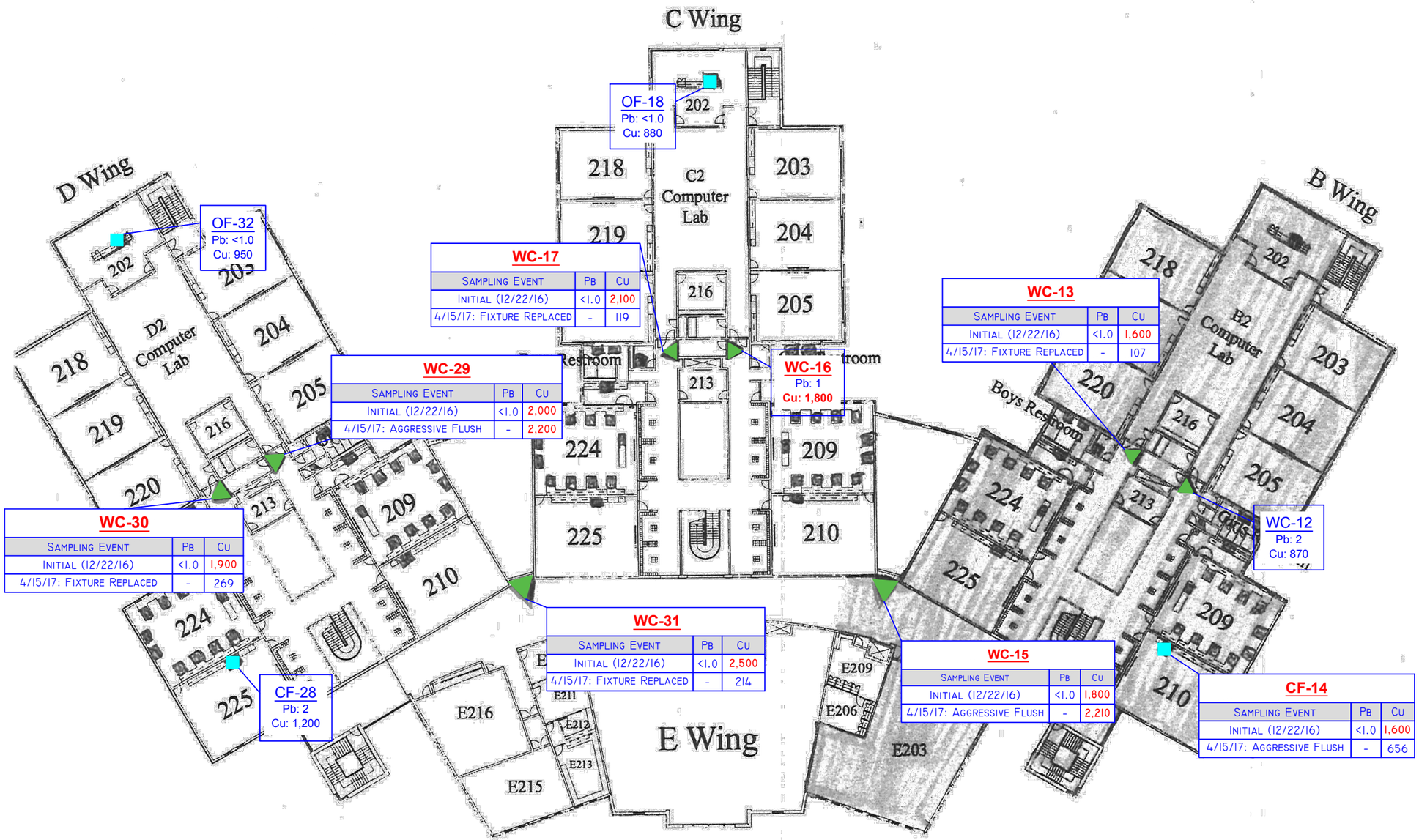
BF-## - Bottle filler fountain

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

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Sample Location Map - Second Floor

FIGURE 1-B

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ATTACHMENT B

Site-Specific Sampling and Analysis Plan

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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: Southridge High School Address: 3520 Southridge Boulevard, Kennewick, WA

☐ Elementary ☐ Middle School ☑ High School ☐ Administration

Date of Construction: 1996 Modernizations: N/A

Fixture Type	Locations	Fixture Styles[1]	Samples	Ratio
Drinking fountain/water cooler (DF/WC)	35	4	22	63%
Kitchen Fixture (KF)	4	4	4	100%
Classroom faucet, including faucets in Food Labs and Life Sciences Classrooms (CF)	23	4	5	22%
Classroom drinking fountain at sink (CDF)	1	1	1	100%
Nurse's Office/Health Room (NF)	1	1	1	100%
Teacher's Lounges/Work Rooms (OF)	7	2	6	86%
TOTALS	**71**		**39**	**55%**

1 Fixture styles are approximate based on sampler's observations

Lead Sampler: Amanda Enbysk Date: 12/22/2016

Sample Prefix: SHS – 122216 – P (first-draw) – _____ – 01-41

School Code *Date* *Sample Type* *Fixture Type* *Sample Number*

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

Comments:

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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

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Table 1: Initial Sampling Analytical Results

Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
SHS122216-P-KF-01: Kitchen, north wall, right food prep	**Kitchen Faucet**	3	**1,700**
SHS122216-P-KF-02: Kitchen, north wall, left food prep	Kitchen Faucet	2	890
SHS122216-P-KF-03: Kitchen, west wall food prep	Kitchen Faucet	5	710
SHS122216-P-KF-04: Kitchen, Vat fill	Kitchen Faucet	6	170
SHS122216-P-CDF-05: Instrumental Music	Classroom Drinking Fountain	<1.0	1,500
SHS122216-P-WC-06: Corridor adjacent Choral Music, left fixture	**Water Cooler Fountain**	<1.0	**2,000**
SHS122216-P-WC-07: Cafeteria, south wall, center fixture	Water Cooler Fountain	<1.0	1,400
SHS122216-P-WC-08: Hallway adjacent Auditorium, right fixture	**Water Cooler Fountain**	<1.0	**2,000**
SHS122216-P-WC-09: 1st floor Area B, north fixture	**Water Cooler Fountain**	<1.0	**2,200**
SHS122216-P-WC-10: 1st floor Area B, south fixture	**Water Cooler Fountain**	<1.0	**2,000**
SHS122216-P-OF-11: Room B102	Office Faucet	<1.0	1,500
SHS122216-P-WC-12: 2nd floor Area B, north fixture	Water Cooler Fountain	2	870
SHS122216-P-WC-13: 2nd floor Area B, south fixture	**Water Cooler Fountain**	<1.0	**1,600**
SHS122216-P-CF-14: Room B210	**Classroom Faucet**	<1.0	**1,600**
SHS122216-P-WC-15: 2nd floor corridor between B and C, right fixture	**Water Cooler Fountain**	<1.0	**1,800**
SHS122216-P-WC-16: 2nd floor Area C, north fixture	**Water Cooler Fountain**	1	**1,800**
SHS122216-P-WC-17: 2nd floor Area C, south fixture	**Water Cooler Fountain**	<1.0	**2,100**
SHS122216-P-OF-18: Room C202	Office Faucet	<1.0	880
SHS122216-P-WC-19: 1st floor Area C, north fixture	**Water Cooler Fountain**	<1.0	**2,100**
SHS122216-P-CF-20: Room C125, right fixture	Classroom Faucet	9	910
SHS122216-P-WC-21: 1st floor Area C, south fixture	Water Cooler Fountain	<1.0	800
SHS122216-P-OF-22: 1st floor Area C, Teacher Planning	Office Faucet	<1.0	880
SHS122216-P-OF-23: Library Workroom	**Office Faucet**	<1.0	**1,700**
SHS122216-P-WC-24: 1st floor Area D, north fixture	Water Cooler Fountain	<1.0	1,500
SHS122216-P-WC-25: 1st floor Area D, south fixture	**Water Cooler Fountain**	<1.0	**1,600**
SHS122216-P-CF-26: Room D109, right fixture	Classroom Faucet	<1.0	1,400
SHS122216-P-OF-27: 1st floor Area D, Teacher Planning	Office Faucet	2	1,000
SHS122216-P-CF-28: Room D225	Classroom Faucet	2	1,200
SHS122216-P-WC-29: 2nd floor Area D, north fixture	**Water Cooler Fountain**	<1.0	**2,000**
SHS122216-P-WC-30: 2nd floor Area D, south fixture	**Water Cooler Fountain**	<1.0	**1,900**
SHS122216-P-WC-31: 2nd floor corridor between C and D, left fixture	**Water Cooler Fountain**	<1.0	**2,500**
SHS122216-P-OF-32: 2nd floor Area D, Teacher Planning	Office Faucet	<1.0	950
SHS122216-P-CF-33: Room D124, right fixture	Classroom Faucet	12	1,300
SHS122216-P-NF-34: Nurse's Office	Nurse's Faucet	12	1,500
SHS122216-P-WC-35: 1st floor, Main Gym entrance west wall, left fixture	**Water Cooler Fountain**	2	**1,900**
SHS122216-P-DF-36: 1st floor, Main Gym entrance, east wall, center fixture	**Drinking Fountain**	<1.0	**2,400**

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Sample Identification and Location	Fixture Type	Lead Results (µg/L)	Copper Results (µg/L)
SHS122216-P-DF-37: Wrestling Gym	**Drinking Fountain**	<1.0	**1,600**
SHS122216-P-WC-38: Lower level gym corridor, right fixture	**Water Cooler Fountain**	<1.0	**2,000**
SHS122216-P-WC-39: Women's PE Lockers	**Water Cooler Fountain**	<1.0	**2,000**
SHS122216-P-CF-40: Laboratory Spike	*Lead and Copper Spike*	*15*	*1,600*
SHS122216-P-CF-41: Laboratory Blank	*Distilled Water Blank*	*<1.0*	*<10*
EPA Action Level		**15**	**1,300**

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
SHS122216-P-KF-04: Kitchen Vat Fill	Kitchen Faucet	8.69	-	23.0	-
SHS122216-P-WC-08: Main Hallway	Water Cooler Fountain	8.67	-	13.8	-
SHS122216-P-WC-12: North B area upstairs	Water Cooler Fountain	8.41	-	21.9	-
SHS122216-P-WC-16: C area north Faucet	Water Cooler Fountain	8.53	-	15.8	-
SHS122216-P-CF-20: Classroom 125	Classroom Faucet	8.34	-	19.2	-
SHS122216-P-WC-24: D area, first floor north	Water Cooler Fountain	8.36	-	20.8	-
SHS122216-P-CF-28: Room 225	Classroom Faucet	8.37	-	21.8	-
SHS122216-P-OF-32: D area, Second floor teacher planning	Office Faucet	8.37	-	22.0	-
SHS122216-P-DF-36: Main gym entrance east	Water Cooler Fountain	8.57	-	12.4	-

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Table 3: Remedial Sampling Analytical Results

Sampling Event	Sample Identification																						
	KF-01	WC-06	WC-08	WC-09	WC-10	WC-13	CF-14	WC-15	WC-16	WC-17	WC-19	OF-23	WC-25	WC-29	WC-30	WC-31	WC-35	DF-36	DF-37	WC-38	WC-39	*Laboratory Spike (-40)*	*Laboratory Blank (-41)*
Initial (12/22/2016)	**1,700**	**2,000**	**2,000**	**2,200**	**2,000**	**1,600**	**1,600**	**1,800**	**1,800**	**2,100**	**2,100**	**1,700**	**1,600**	**2,000**	**1,900**	**2,500**	**1,900**	**2,400**	**1,600**	**2,000**	**2,000**	*1,600*	*<10*
Aggressive Flush/ Fixture Replacement (4/15/2017)	1,040	371	511	281	**1,350**	107	656	**2,210**	**-***	119	226	1,050	**2,280**	**2,200**	269	214	**2,200**	342	1,110	1,320	113	*1,330*	*<0.5*
EPA Action Level	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**	**1,300**

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.

*Fixture was removed from service prior to follow-up sampling.

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ATTACHMENT D

Initial Analytical Results

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Subject: Chemical Analysis Report

Columbia Basin Analytical Laboratories received 41 sample(s) on 12/22/16 for analysis. These sample(s) have been assigned a login order number of W612121. Enclosed is the final report that consists of a summary report of the sample(s), and a copy of the chain of custody.

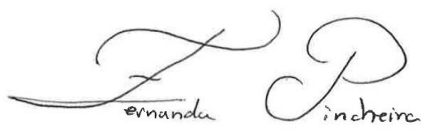
General Lab Comments

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.

Matrix spike recovery failures are attributed to calibration exceedance and matrix effects and qualified per method prescription.

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:



02/10/17

Project Coordinator II, M. Fernanda Pincheira — Date

If you have any questions please feel free to contact Fernanda Pincheira at MPincheira@rjleegroup.com.

RJ LEE GROUP

Laboratory Report

Ryan Mathews

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

Client Project:

Fulcrum Kennewick

RJ Lee Group No.: W612121
COC No.: Kennewick
Samples Received: 12/22/16
Analysis/Prep Date: 02/10/17
Report Date: 02/10/17

Sample Name: SHS122216-P-KF-01 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-01 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.7	0.1	X
Lead	EPA 200.8	0.003	0.001	

Sample Name: SHS122216-P-KF-02 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-02 **Date Analyzed:** 02/10/17

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: SHS122216-P-KF-03 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-03 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.71	0.01	
Lead	EPA 200.8	0.005	0.001	

Sample Name: SHS122216-P-KF-04 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-04 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.17	0.01	
Lead	EPA 200.8	0.006	0.001	

Sample Name: SHS122216-P-CDF-05 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-05 **Date Analyzed:** 02/10/17

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	

RJ LEE GROUP

Sample Name: SHS122216-P-WC-06 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-06 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.0	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-WC-07 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-07 **Date Analyzed:** 02/10/17

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: SHS122216-P-WC-08 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-08 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.0	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-WC-09 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-09 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.2	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-WC-10 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-10 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.0	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-OF-11 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-11 **Date Analyzed:** 02/10/17

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	

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Sample Name: SHS122216-P-WC-12 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-12 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.87	0.01	
Lead	EPA 200.8	0.002	0.001	

Sample Name: SHS122216-P-WC-13 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-13 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.6	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-CF-14 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-14 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.6	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-WC-15 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-15 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.8	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-WC-16 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-16 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.8	0.1	X
Lead	EPA 200.8	0.001	0.001	

Sample Name: SHS122216-P-WC-17 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-17 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.1	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

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Sample Name: SHS122216-P-OF-18 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-18 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.88	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-WC-19 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-19 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.1	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-CF-20 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-20 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.91	0.01	
Lead	EPA 200.8	0.009	0.001	

Sample Name: SHS122216-P-WC-21 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-21 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.80	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-OF-22 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-22 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.88	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-OF-23 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-23 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.7	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

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Sample Name: SHS122216-P-WC-24 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-24 **Date Analyzed:** 02/10/17

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: SHS122216-P-WC-25 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-25 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.6	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-CF-26 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-26 **Date Analyzed:** 02/10/17

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: SHS122216-P-OF-27 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-27 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.0	0.1	X
Lead	EPA 200.8	0.002	0.001	

Sample Name: SHS122216-P-CF-28 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-28 **Date Analyzed:** 02/10/17

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: SHS122216-P-WC-29 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-29 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.0	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

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Sample Name: SHS122216-P-WC-30 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-30 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.9	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-WC-31 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-31 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.5	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-OF-32 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-32 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	0.95	0.01	
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-CF-33 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-33 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.3	0.1	X
Lead	EPA 200.8	0.012	0.001	

Sample Name: SHS122216-P-NF-34 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-34 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.5	0.1	X
Lead	EPA 200.8	0.012	0.001	

Sample Name: SHS122216-P-OF-35 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-35 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.9	0.1	X
Lead	EPA 200.8	0.002	0.001	

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Sample Name: SHS122216-P-WC-36 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-36 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.4	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-OF-37 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-37 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.6	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-WC-38 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-38 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.0	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-WC-39 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-39 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	2.0	0.1	X
Lead	EPA 200.8	< 0.0010	0.001	

Sample Name: SHS122216-P-CF-40 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-40 **Date Analyzed:** 02/10/17

Analyte	Method	Result (mg/L)	PQL (mg/L)	Qualifiers
Copper	EPA 200.8	1.6	0.1	X
Lead	EPA 200.8	0.015	0.001	

Sample Name: SHS122216-P-CF-41 **Matrix:** Potable Water **Date Received:** 12/22/16
RJ Lee Grp. ID: W612121-41 **Date Analyzed:** 02/09/17

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	

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Report Qualifiers:

A = Target Analyte media breakthrough suspect, see analytical report
B = Analyte detected in the associated blank
D = Analyte analyzed in a dilution
d = Data that exceeds the RSD criteria set by the SOP
E = Report concentration was above the instrument calibration range
H = Holding times for preparation or analysis exceeded
J = Analyte detected below quantitation limits, concentration is estimated
L = Sample condition at receipt out of compliance with method defined conditions
P = Library spectrum match, rsd >90% w RT match
R = RPD (relative percent difference) outside accepted recovery limits
Q = Result out of method specific acceptance QC criteria
U = Analyte analyzed for but not detected
S = Spike Recovery outside accepted recovery limits
N/A = Not Applicable
Z = Not ELAP accredited analyte
ND = Not Detected

Scientist II DeNomy Dage

Request for Environmental and IH Laboratory Analytical Services

W612121

ATTENTION TO:	**RYAN MATHEWS**	Purchase Order No.:	Client Job No.: **162017**

Lab Use Only	Project No.:	Client No:	
	Date Logged In:	Logged In By:	
Report Results To	Name: Amanda Enbysk, Ryan Mathews		
	Company: Fulcrum Environmental Consulting		
	Address: 406 North 2nd Street		
	City, State, Zip: Yakima, WA, 98901		
	Phone: (509) 574-0839	Fax: (509) 575-8453	
	Call with Verbal Results:		
	Email Results To: aenbysk@efulcrum.net, **CC:** rmathews@efulcrum.net		
	Fax Results To:		
Send Invoice To	Name: Lorrie Boutillier		
	Company: Fulcrum Environmental	Email: lboutillier@efulcrum.net	
	Address: 406 North 2nd Street		
	City, State, Zip: Yakima, WA, 98901		
	Phone: (509) 574-0839	Fax: (509) 575-8453	
Special Instructions			

Turnaround Request: Standard: Yes No If 'No,' No. of Business Days:

Drinking Water Sample Only: Sample Purpose: Information X Regulatory □ Accreditation (please list below):
System ID #:
DOH Source #:
Multiple Sources #s:
Sample Purpose: A □ B □ Other □

Chemistry Analysis Key

Preservation:		Matrix:		Container:
Unpres	H_2SO_4	WW=Wastewater	SW=Surface Water	P=Plastic
4°C	HCl	GW=Groudwater	DW=Drinking Water	G=Glass
HNO_3	NaOH	S=Soil/Sludge	O=Oil	W=Wipe
Other	Na_2SO_4	E=Extract	X=Other	A=Air (filter or tube)

Client Sample ID	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	Analysis Requested: EPA 200.8: Pb, Cu	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
SHS122216-P-KF-01	North partition, food prep east	12/22/16				X		UNPR.	DW	P		14.6
SHS122216-P-KF-02	North partition, food prep west											15.4
SHS122216-P-KF-03	West wall food prep											16.7
SHS122216-P-KF-04	Kitchen vat fill											16.7
SHS122216-P-CDF-05	A27, Instrumental music											14.9
SHS122216-P-WC-06	Music hallway of "A" wing											14.9
SHS122216-P-WC-07	Cafeteria, wall center											16.4
SHS122216-P-WC-08	"A" area, main hallway,											14.4
SHS122216-P-WC-09	"B" area 1st floor North											14.7
SHS122216-P-WC-10	"B" area 1st floor South											14.8
SHS122216-P-OF-11	"B" wing 102 teacher planning											14.8

Chain of Custody	Relinquished By (Signature):	Date: 12/22/16	Time: 1340	Received By (Signature):	Date: DEC 22 2016 Time: 1340
	Relinquished By (Print Name):	Relinquished To:		Received By (Print Name):	Relinquished To:
	Company Name:	Method of Shipment:		Company Name:	Method of Shipment:
Chain of Custody	Relinquished By (Signature):	Date:	Time:	Received By (Signature):	Date: Time:
	Relinquished By (Print Name):	Relinquished To:		Received By (Print Name):	Relinquished To:
	Company Name:	Method of Shipment:		Company Name:	Method of Shipment:

Pennsylvania - HQ
350 Hochberg Road
Monroeville, PA 15146

724.325.1776 **Phone**
724.733.1799 **Fax**

Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, WA 99301

509.545.4989 **Phone**
509.544.6010 **Fax**

RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

Request for Environmental and IH Laboratory Analytical Services

ATTENTION TO:	RYAN MATHEWS	Purchase Order No.:	Client Job No.: 162017

Lab Use Only	Project No.:	Client No:	
	Date Logged In:	Logged In By:	
Report Results To	Name: Amanda Enbysk, Ryan Mathews		
	Company: Fulcrum Environmental Consulting		
	Address: 406 North 2nd Street		
	City, State, Zip: Yakima, WA, 98901		
	Phone: (509) 574-0839	Fax: (509) 575-8453	
	Call with Verbal Results:		
	Email Results To: aenbysk@efulcrum.net, **CC:** rmathews@efulcrum.net		
	Fax Results To:		
Send Invoice To	Name: Lorrie Boutillier		
	Company: Fulcrum Environmental	Email: lboutillier@efulcrum.net	
	Address: 406 North 2nd Street		
	City, State, Zip: Yakima, WA, 98901		
	Phone: (509) 574-0839	Fax: (509) 575-8453	
Special Instructions			

Turnaround Request: Standard: Yes No If 'No,' No. of Business Days:

Drinking Water Sample Only: Sample Purpose: Information X Regulatory □ Accreditation (please list below):
System ID #:
DOH Source #:
Multiple Sources #s:
Sample Purpose: A □ B □ Other □

Chemistry Analysis Key

Preservation:		Matrix:		Container:
Unpres	H_2SO_4	WW=Wastewater	SW=Surface Water	P=Plastic
4°C	HCl	GW=Groudwater	DW=Drinking Water	G=Glass
HNO_3	NaOH	S=Soil/Sludge	O=Oil	W=Wipe
Other	Na_2SO_4	E=Extract	X=Other	A=Air (filter or tube)

Client Sample ID	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	Analysis Requested: EPA 200.8: Pb, Cu	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
SHS122216-P-WC-12	"B" area, upstairs N S	12/22/16				X		UNPR	DW	P		17.2
SHS122216-P-WC-13												17.4
SHS122216-P-CF-14	Classroom 210, "B" wing											17.4
SHS122216-P-WC-15	Upstairs hallway between B&C											14.3
SHS122216-P-WC-16	"C" area, N fixture											14.3
SHS122216-P-WC-17	"C" area, S fixture											13.3
SHS122216-P-OF-18	"C" upstairs, 202 workroom											13.3
SHS122216-P-WC-19	"C" area downstairs N											14.1
SHS122216-P-CF-20	"C" area, Classroom 125											14.1
SHS122216-P-WC-21	"C" area, downstairs classroom S.											15.8
SHS122216-P-OF-22	"C" area, 1st floor teacher planning											15.2

Chain of Custody	Relinquished By (Signature):	Date: 12/22/16	Time: 1340	Received By (Signature):	Date: DEC 22 2016 Time: 1340
	Relinquished By (Print Name):	Relinquished To:		Received By (Print Name):	Relinquished To:
	Company Name:	Method of Shipment:		Company Name:	Method of Shipment:
Chain of Custody	Relinquished By (Signature):	Date:	Time:	Received By (Signature):	Date: Time:
	Relinquished By (Print Name):	Relinquished To:		Received By (Print Name):	Relinquished To:
	Company Name:	Method of Shipment:		Company Name:	Method of Shipment:

Pennsylvania - HQ
350 Hochberg Road
Monroeville, PA 15146

724.325.1776 **Phone**
724.733.1799 **Fax**

Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, WA 99301

509.545.4989 **Phone**
509.544.6010 **Fax**

RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

Request for Environmental and IH Laboratory Analytical Services

W612121, Page 12 of 13

ATTENTION TO:	**RYAN MATHEWS**	Purchase Order No.:	Client Job No.: **162017**

Lab Use Only	Project No.:	Client No:	
	Date Logged In:	Logged In By:	
Report Results To	Name: Amanda Enbysk, Ryan Mathews		
	Company: Fulcrum Environmental Consulting		
	Address: 406 North 2nd Street		
	City, State, Zip: Yakima, WA, 98901		
	Phone: (509) 574-0839	Fax: (509) 575-8453	
	Call with Verbal Results:		
	Email Results To: aenbysk@efulcrum.net, **CC:** rmathews@efulcrum.net		
	Fax Results To:		
Send Invoice To	Name: Lorrie Boutillier		
	Company: Fulcrum Environmental	Email: lboutillier@efulcrum.net	
	Address: 406 North 2nd Street		
	City, State, Zip: Yakima, WA, 98901		
	Phone: (509) 574-0839	Fax: (509) 575-8453	
Special Instructions			

Turnaround Request: Standard: Yes No If 'No,' No. of Business Days:

Drinking Water Sample Only: Sample Purpose: Information X Regulatory □ Accreditation (please list below):
System ID #:
DOH Source #:
Multiple Sources #s:
Sample Purpose: A □ B □ Other □

Chemistry Analysis Key

Preservation:		Matrix:		Container:
Unpres	H_2SO_4	WW=Wastewater	SW=Surface Water	P=Plastic
4°C	HCl	GW=Groudwater	DW=Drinking Water	G=Glass
HNO_3	NaOH	S=Soil/Sludge	O=Oil	W=Wipe
Other	Na_2SO_4	E=Extract	X=Other	A=Air (filter or tube)

Client Sample ID	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	Analysis Requested: EPA 200.8: Pb, Cu	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
SHS122216-P-OF-23	Library workroom	12/22/16				X		UNPR	DW	P		15
SHS122216-P-WC-24	"D" area 1st floor N											16
SHS122216-P-WC-25	"D" area 1st floor S											12
SHS122216-P-CF-26	Classroom ~~D110~~ D109											14
SHS122216-P-OF-27	"D" area, 1st floor teacher planning											15
SHS122216-P-CF-28	"D" area, 2nd floor room 225											15
SHS122216-P-WC-29	"D" area, upstairs N											13
SHS122216-P-WC-30	"D" area, upstairs S											12
SHS122216-P-WC-31	upstairs hallway bet. C&D											13
SHS122216-P-OF-32	"D" area, 2nd floor teacher planning											15
SHS122216-P-CF-33	"D" area, Classroom 125											15

Chain of Custody	Relinquished By (Signature):	Date: 12/22/16	Time: 1340	Received By (Signature):	Date: DEC 22 2016 Time: 1340
	Relinquished By (Print Name):	Relinquished To:		Received By (Print Name):	Relinquished To:
	Company Name:	Method of Shipment:		Company Name:	Method of Shipment:
Chain of Custody	Relinquished By (Signature):	Date:	Time:	Received By (Signature):	Date: Time:
	Relinquished By (Print Name):	Relinquished To:		Received By (Print Name):	Relinquished To:
	Company Name:	Method of Shipment:		Company Name:	Method of Shipment:

Pennsylvania - HQ
350 Hochberg Road
Monroeville, PA 15146

724.325.1776 **Phone**
724.733.1799 **Fax**

Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, WA 99301

509.545.4989 **Phone**
509.544.6010 **Fax**

RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

Request for Environmental and IH Laboratory Analytical Services

W612121, Page 13 of 13

ATTENTION TO:	RYAN MATHEWS	Purchase Order No.:	Client Job No.: 162017

Lab Use Only	Project No.:	Client No:	
	Date Logged In:	Logged In By:	
Report Results To	Name: Amanda Enbysk, Ryan Mathews		
	Company: Fulcrum Environmental Consulting		
	Address: 406 North 2nd Street		
	City, State, Zip: Yakima, WA, 98901		
	Phone: (509) 574-0839	Fax: (509) 575-8453	
	Call with Verbal Results:		
	Email Results To: aenbysk@efulcrum.net, **CC:** rmathews@efulcrum.net		
	Fax Results To:		
Send Invoice To	Name: Lorrie Boutillier		
	Company: Fulcrum Environmental	Email: lboutillier@efulcrum.net	
	Address: 406 North 2nd Street		
	City, State, Zip: Yakima, WA, 98901		
	Phone: (509) 574-0839	Fax: (509) 575-8453	
Special Instructions			

Turnaround Request: Standard: Yes No — If 'No,' No. of Business Days:

Drinking Water Sample Only: Sample Purpose: Information X Regulatory □ Accreditation (please list below): System ID #: DOH Source #: Multiple Sources #s: Sample Purpose: A □ B □ Other □

Chemistry Analysis Key

Preservation:		Matrix:		Container:
Unpres	H_2SO_4	WW=Wastewater	SW=Surface Water	P=Plastic
4°C	HCl	GW=Groudwater	DW=Drinking Water	G=Glass
HNO_3	NaOH	S=Soil/Sludge	O=Oil	W=Wipe
Other	Na_2SO_4	E=Extract	X=Other	A=Air (filter or tube)

Client Sample ID	Sample Description	Sample Date	Sample Time Start	Sample Time Stop	Wipe Area / Air Volume	Analysis Requested: EPA 200.8: Pb, Cu	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
SHS122116-P-NF-34	Nurse's office	12/22/16				↓		UNPR	DW	P		15.8
SHS122116-P-DF-35	1st floor, main gym entrance W											12.4
SHS122116-P-WC DR-36	1st floor, main gym entrance E											11.7
SHS122116-P-DF-37	Wrestling/gymnastics											14.8
SHS122116-P-WC-38	Lower level gym hallway											12.6
SHS122116-P-WC-39	Women's PE Lockers											12.4
SHS122116-P-CF-40	Crea G classroom 125											13.8
SHS122116-P-CF-41	Crea H classroom 209	↓				↓		↓	↓	↓		13.7

Chain of Custody	Relinquished By (Signature): Ann McCoy	Date: 12/22/16	Time: 1340	Received By (Signature):	Date: DEC 22 2016 Time: 1340
	Relinquished By (Print Name):	Relinquished To:		Received By (Print Name): FEDEX	Relinquished To:
	Company Name:	Method of Shipment:		Company Name:	Method of Shipment:
Chain of Custody	Relinquished By (Signature):	Date:	Time:	Received By (Signature):	Date: Time:
	Relinquished By (Print Name):	Relinquished To:		Received By (Print Name):	Relinquished To:
	Company Name:	Method of Shipment:		Company Name:	Method of Shipment:

Pennsylvania - HQ
350 Hochberg Road
Monroeville, PA 15146

724.325.1776 **Phone**
724.733.1799 **Fax**

Washington
Columbia Basin Analytical Laboratories
2710 North 20th Avenue
Pasco, WA 99301

509.545.4989 **Phone**
509.544.6010 **Fax**

RJ LEE GROUP
DELIVERING SCIENTIFIC RESOLUTION

FULCRUM environmental consulting

ATTACHMENT E

Remedial Analytical Results

P. 509.574.0839 F. 509.575.8453
406 North 2nd Street
Yakima, Washington 98901
efulcrum.net

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 - Southridge HS
Work Order Number: 1704066

April 07, 2017

Attention Ryan Mathews:

Fremont Analytical, Inc. received 32 sample(s) on 4/6/2017 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

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge
Work Order: 1704066

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1704066-001	SHS4517-P-KF-01	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-002	SHS4517-S-KF-01	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-003	SHS4517-T-KF-01	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-004	SHS4517-P-WC-06	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-005	SHS4517-P-WC-08	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-006	SHS4517-P-WC-09	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-007	SHS4517-P-WC-10	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-008	SHS4517-P-WC-13	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-009	SHS4517-P-CF-14	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-010	SHS4517-S-CF-14	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-011	SHS4517-T-CF-14	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-012	SHS4517-P-WC-15	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-013	SHS4517-S-WC-15	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-014	SHS4517-T-WC-15	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-015	SHS4517-P-WC-17	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-016	SHS4517-P-WC-19	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-017	SHS4517-S-WC-19	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-018	SHS4517-T-WC-19	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-019	SHS4517-P-OF-23	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-020	SHS4517-S-OF-23	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-021	SHS4517-T-OF-23	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-022	SHS4517-P-WC-25	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-023	SHS4517-P-WC-29	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-024	SHS4517-P-WC-30	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-025	SHS4517-P-WC-31	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-026	SHS4517-P-DF-35	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-027	SHS4517-P-WC-36	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-028	SHS4517-P-DF-37	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-029	SHS4517-P-WC-38	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-030	SHS4517-P-WC-39	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-031	SHS4517-P-CF-40	04/05/2017 9:30 AM	04/06/2017 10:31 AM
1704066-032	SHS4517-P-CF-41	04/05/2017 9:30 AM	04/06/2017 10:31 AM

Case Narrative

WO#: **1704066**
Date: **4/7/2017**

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge HS

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:
1704066-001A 214496: Prep Comments for EPA200.8, Sample 1704066-001A: Turbidity: 0.01 NTU
1704066-004A 214500: Prep Comments for EPA200.8, Sample 1704066-004A: Turbidity: 0.00 NTU
1704066-005A 214501: Prep Comments for EPA200.8, Sample 1704066-005A: Turbidity: 0.01 NTU
1704066-006A 214502: Prep Comments for EPA200.8, Sample 1704066-006A: Turbidity: 0.01 NTU
1704066-007A 214503: Prep Comments for EPA200.8, Sample 1704066-007A: Turbidity: 0.01 NTU
1704066-008A 214504: Prep Comments for EPA200.8, Sample 1704066-008A: Turbidity: 0.17 NTU
1704066-009A 214505: Prep Comments for EPA200.8, Sample 1704066-009A: Turbidity: 0.01 NTU
1704066-012A 214506: Prep Comments for EPA200.8, Sample 1704066-012A: Turbidity: 0.01 NTU
1704066-015A 214507: Prep Comments for EPA200.8, Sample 1704066-015A: Turbidity: 0.01 NTU
1704066-016A 214508: Prep Comments for EPA200.8, Sample 1704066-016A: Turbidity: 0.01 NTU
1704066-019A 214509: Prep Comments for EPA200.8, Sample 1704066-019A: Turbidity: 0.01 NTU
1704066-022A 214510: Prep Comments for EPA200.8, Sample 1704066-022A: Turbidity: 0.00 NTU
1704066-023A 214511: Prep Comments for EPA200.8, Sample 1704066-023A: Turbidity: 0.01 NTU
1704066-024A 214512: Prep Comments for EPA200.8, Sample 1704066-024A: Turbidity: 0.01 NTU
1704066-025A 214513: Prep Comments for EPA200.8, Sample 1704066-025A: Turbidity: 0.04 NTU
1704066-026A 214514: Prep Comments for EPA200.8, Sample 1704066-026A: Turbidity: 0.01 NTU
1704066-027A 214515: Prep Comments for EPA200.8, Sample 1704066-027A: Turbidity: 0.00 NTU
1704066-028A 214516: Prep Comments for EPA200.8, Sample 1704066-028A: Turbidity: 0.04 NTU
1704066-029A 214517: Prep Comments for EPA200.8, Sample 1704066-029A: Turbidity: 0.01 NTU
1704066-030A 214518: Prep Comments for EPA200.8, Sample 1704066-030A: Turbidity: 0.01 NTU
1704066-031A 214525: Prep Comments for EPA200.8, Sample 1704066-031A: Turbidity: 0.01 NTU
1704066-032A 214526: Prep Comments for EPA200.8, Sample 1704066-032A: Turbidity: 0.01 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 - Southridge HS

Lab ID: 1704066-001 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-KF-01** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	1,040	0.500		µg/L	1	4/7/2017 10:50:49 AM

Lab ID: 1704066-004 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-06** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	371	0.500		µg/L	1	4/7/2017 11:06:54 AM

Lab ID: 1704066-005 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-08** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	511	0.500		µg/L	1	4/7/2017 11:10:56 AM

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge HS

Lab ID: 1704066-006 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-09** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	281	0.500		µg/L	1	4/7/2017 11:14:57 AM

Lab ID: 1704066-007 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-10** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	1,350	0.500		µg/L	1	4/7/2017 11:27:03 AM

Lab ID: 1704066-008 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-13** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	107	0.500		µg/L	1	4/7/2017 11:31:04 AM

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge HS

Lab ID: 1704066-009 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-CF-14** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	656	0.500		µg/L	1	4/7/2017 11:35:06 AM

Lab ID: 1704066-012 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-15** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	2,210	0.500		µg/L	1	4/7/2017 11:39:07 AM

Lab ID: 1704066-015 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-17** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	119	0.500		µg/L	1	4/7/2017 12:00:25 PM

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge HS

Lab ID: 1704066-016 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-19** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	226	0.500		µg/L	1	4/7/2017 12:04:27 PM

Lab ID: 1704066-019 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-OF-23** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	1,050	0.500		µg/L	1	4/7/2017 12:08:28 PM

Lab ID: 1704066-022 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-25** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	2,280	0.500		µg/L	1	4/7/2017 12:12:29 PM

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge HS

Lab ID: 1704066-023 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-29** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	2,200	0.500		µg/L	1	4/7/2017 12:16:31 PM

Lab ID: 1704066-024 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-30** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	269	0.500		µg/L	1	4/7/2017 12:20:32 PM

Lab ID: 1704066-025 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-31** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	214	0.500		µg/L	1	4/7/2017 12:24:33 PM

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge HS

Lab ID: 1704066-026 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-DF-35** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	2,220	0.500		µg/L	1	4/7/2017 12:28:35 PM

Lab ID: 1704066-027 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-36** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	342	0.500		µg/L	1	4/7/2017 12:32:36 PM

Lab ID: 1704066-028 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-DF-37** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	1,110	0.500		µg/L	1	4/7/2017 12:36:37 PM

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge HS

Lab ID: 1704066-029 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-38** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	1,320	0.500		µg/L	1	4/7/2017 12:48:43 PM

Lab ID: 1704066-030 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-WC-39** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16721		Analyst: TN
Copper	113	0.500		µg/L	1	4/7/2017 12:52:44 PM

Lab ID: 1704066-031 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-CF-40** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16722		Analyst: TN
Copper	1,330	0.500		µg/L	1	4/7/2017 1:24:56 PM

Analytical Report

Work Order: **1704066**
Date Reported: **4/7/2017**

CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge HS

Lab ID: 1704066-032 **Collection Date:** 4/5/2017 9:30:00 AM
Client Sample ID: **SHS4517-P-CF-41** **Matrix:** Drinking Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Drinking Water Metals by EPA Method 200.8				Batch ID: 16722		Analyst: TN
Copper	ND	0.500		µg/L	1	4/7/2017 1:37:02 PM

Work Order: 1704066
CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge

QC SUMMARY REPORT

Drinking Water Metals by EPA Method 200.8

Sample ID	**MB-16722**	SampType:	**MBLK**			Units:	**µg/L**		Prep Date:	**4/7/2017**		RunNo:	**35427**	
Client ID:	**MBLKW**	Batch ID:	**16722**						Analysis Date:	**4/7/2017**		SeqNo:	**678405**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Copper		ND	0.500											

Sample ID	**LCS-16722**	SampType:	**LCS**			Units:	**µg/L**		Prep Date:	**4/7/2017**		RunNo:	**35427**	
Client ID:	**LCSW**	Batch ID:	**16722**						Analysis Date:	**4/7/2017**		SeqNo:	**678406**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Copper		98.2	0.500	100.0	0	98.2	85	115						

Sample ID	**1704067-001ADUP**	SampType:	**DUP**			Units:	**µg/L**		Prep Date:	**4/7/2017**		RunNo:	**35427**	
Client ID:	**BATCH**	Batch ID:	**16722**						Analysis Date:	**4/7/2017**		SeqNo:	**678408**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Copper		963	0.500						932.8	3.19	30			

Sample ID	**1704067-001AMS**	SampType:	**MS**			Units:	**µg/L**		Prep Date:	**4/7/2017**		RunNo:	**35427**	
Client ID:	**BATCH**	Batch ID:	**16722**						Analysis Date:	**4/7/2017**		SeqNo:	**678409**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Copper		1,190	0.500	200.0	932.8	131	70	130				S		

NOTES:
S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Sample ID	**1704067-001AMSD**	SampType:	**MSD**			Units:	**µg/L**		Prep Date:	**4/7/2017**		RunNo:	**35427**	
Client ID:	**BATCH**	Batch ID:	**16722**						Analysis Date:	**4/7/2017**		SeqNo:	**678410**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Copper		1,140	0.500	200.0	932.8	103	70	130	1,195	4.82	30			

Work Order: 1704066
CLIENT: Fulcrum Environmental
Project: Kennewick SD Drinking Water - Southridge

QC SUMMARY REPORT

Drinking Water Metals by EPA Method 200.8

Sample ID	**MB-16721**	SampType:	**MBLK**			Units:	**µg/L**	Prep Date:	**4/7/2017**	RunNo:	**35418**	
Client ID:	**MBLKW**	Batch ID:	**16721**					Analysis Date:	**4/7/2017**	SeqNo:	**678226**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		ND	0.500									

Sample ID	**LCS-16721**	SampType:	**LCS**			Units:	**µg/L**	Prep Date:	**4/7/2017**	RunNo:	**35418**	
Client ID:	**LCSW**	Batch ID:	**16721**					Analysis Date:	**4/7/2017**	SeqNo:	**678227**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		96.8	0.500	100.0	0	96.8	85	115				

Sample ID	**1704066-001ADUP**	SampType:	**DUP**			Units:	**µg/L**	Prep Date:	**4/7/2017**	RunNo:	**35418**	
Client ID:	**SHS4517-P-KF-01**	Batch ID:	**16721**					Analysis Date:	**4/7/2017**	SeqNo:	**678229**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		1,030	0.500						1,041	1.20	30	

Sample ID	**1704066-001AMS**	SampType:	**MS**			Units:	**µg/L**	Prep Date:	**4/7/2017**	RunNo:	**35418**	
Client ID:	**SHS4517-P-KF-01**	Batch ID:	**16721**					Analysis Date:	**4/7/2017**	SeqNo:	**678230**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		1,240	0.500	200.0	1,041	102	70	130				

Sample ID	**1704066-001AMSD**	SampType:	**MSD**			Units:	**µg/L**	Prep Date:	**4/7/2017**	RunNo:	**35418**	
Client ID:	**SHS4517-P-KF-01**	Batch ID:	**16721**					Analysis Date:	**4/7/2017**	SeqNo:	**678231**	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper		1,230	0.500	200.0	1,041	96.1	70	130	1,245	0.899	30	

Sample Log-In Check List

Client Name:	**FE**	Work Order Number:	**1704066**
Logged by:	**Clare Griggs**	Date Received:	**4/6/2017 10:31:00 AM**

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: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Cooler 1	2.2
Cooler 2	0.9
Sample 1	2.9
Sample 2	1.1

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

Chain of Custody Record and Laboratory Services Agreement

Fremont Analytical

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

Date: 4/5/2017 Laboratory Project No (internal): 1704066

Page: 1 of: 4

Project Name: Kennewick SD Drinking Water - Southridge HS

Client: Fulcrum Environmental Consulting Project No: 162017.21 Collected by: Amanda Enbysk

Address: 406 North Second Street Location: ~~Kennewick, WA~~ Southridge High School, Kennewick, WA

City, State, Zip: Yakima, WA, 98901 Report To (PM): Ryan Mathews

Telephone: 509.574.0839 Fax: 509.575.8453 PM Email: rmathews@efulcrum.net; cc: aenbysk@efulcrum.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)*	VOCs (EPA 8260 / 624)	GX/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)			HNO3 preservation	Comments
1	SHS4517-P-KF-01	4/5/2017	0930	DW										⊗						⊗	
2	SHS4517-S-KF-01																				HOLD; unpreserved
3	SHS4517-T-KF-01																				
4	SHS4517-P-WC-06													⊗						⊗	
5	SHS4517-P-WC-08													⊗						⊗	
6	SHS4517-P-WC-09													⊗						⊗	
7	SHS4517-P-WC-10													⊗						⊗	
8	SHS4517-P-WC-13													⊗						⊗	
9	SHS4517-P-CF-14													⊗						⊗	
10	SHS4517-S-CF-14																				HOLD; unpreserved

**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

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.

Special Remarks: Please preserve all unpreserved

TAT: ASAP

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
x [signature]	4/5/17; 1500	x [signature]	4/6/2017 1031
x		x	

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

^Please coordinate with the lab in advance

Chain of Custody Record and Laboratory Services Agreement

Fremont Analytical

3600 Fremont Ave N.
Seattle, WA 98103

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

Date: 4/5/17

Laboratory Project No (internal): _____

Page: 2 of: 4

Project Name: Kennewick GW Drinking Water - Southridge HS

Project No: 162017.21

Collected by: Amanda Enbysk

Location: Southridge High School, Kennewick, WA

Client: Fulcrum Environmental Consulting

Address: 406 North Second Street

City, State, Zip: Yakima, WA, 98901

Report To (PM): Ryan Mathews

Telephone: 509.574.0839

Fax: 509.575.8453

PM Email: rmathews@efulcrum.net; cc: aenbysk@efulcrum.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)*	VOCs (EPA 8260 / 624)	GX/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)	HNO3 preserved	Comments
1 SHS4517-T-CF-14	4/5/2017	0930	DW																HOLD; unpreserved
2 SHS4517-P-WC-15												⊗						⊗	
3 SHS4517-S-WC-15																			HOLD; unpreserved
4 SHS4517-T-WC-15																			↓
5 SHS4517-P-WC-17												⊗						⊗	
6 SHS4517-P-WC-19												⊗						⊗	
7 SHS4517-S-WC-19																			HOLD; unpreserved
8 SHS4517-T-WC-19																			↓
9 SHS4517-P-OF-23												⊗						⊗	
10 SHS4517-S-OF-23																			HOLD; unpreserved

**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

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Relinquished	Date/Time	Received	Date/Time
x Amanda MCerfs	4/5/2017; 1500	x	4/6/2017 1031
Relinquished	Date/Time	Received	Date/Time
x		x	

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Distribution: White - Lab, Yellow - File, Pink - Originator

www.fremontanalytical.com

Chain of Custody Record and Laboratory Services Agreement

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

Date: 4/5/17

Laboratory Project No (internal): _____

Page: 3 of: 4

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 - Southridge HS
Project No: 162017.21 Collected by: Amanda Enbysk
Location: Southridge High School, Kennewick, WA
Report To (PM): Ryan Mathews
PM Email: rmathews@efulcrum.net; cc: aenbysk@efulcrum.net

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1	SHS4517-T-OF-23	4/5/17	0930	GW															HOLD; unpreserved
2	SHS4517-P-WC-25												⊗					⊗	
3	SHS4517-P-WC-29												⊗					⊗	
4	SHS4517-P-WC-30												⊗					⊗	
5	SHS4517-P-WC-31												⊗					⊗	
6	SHS4517-P-DF-35												⊗					⊗	
7	SHS4517-P-WC-36												⊗					⊗	
8	SHS4517-P-DF-37												⊗					⊗	
9	SHS4517-P-WC-38												⊗					⊗	
10	SHS4517-P-WC-39	↓	↓	↓									⊗					⊗	

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x		x	

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Chain of Custody Record and Laboratory Services Agreement

Fremont Analytical

3600 Fremont Ave N.
Seattle, WA 98103

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

Date: 4/5/17

Laboratory Project No (internal): _____

Page: 4 of: 4

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 - Southridge HS
Project No: 162017.21 Collected by: Amanda Enbysk
Location: Southridge High School, Kennewick, WA
Report To (PM): Ryan Mathews
PM Email: rmathews@efulcrum.net; cc: aenbysk@efulcrum.net

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1	SHS4517-P-CF-40	4/5/17	0930	DW									X						X	
2	SHS4517-P-CF-41	↓	↓	↓									X						X	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

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