

Water Testing Results - Falls City Gymnasium
Action Level is 15 parts per billion (ppb)

Fixture Location/Description	Fixture ID #	Test Date	Test Result (ppb)
Girls Locker Room - Sink	16_47589	8/5/2016	210.0
Boys Locker Room - Drinking Fountain	16_47590	8/5/2016	2.5
Boys Locker Room - Sink	16_47591	8/5/2016	7.7
Team Room - Sink	16_47592	8/5/2016	4.2
Gym Entry - Drinking Fountain	16_47593	8/5/2016	8.3
Mens - Restroom Sink	16_47594	8/5/2016	4.7
Womens - Restroom Sink	16_47595	8/5/2016	209.0
Concessions - Sink	16_47596	8/5/2016	93.0
Girls Locker Room - Sink (retest)	16_47606	11/18/2016	32.0
Womens - Restroom Sink (retest)	16_47607	11/18/2016	48.0
Concessions - Sink (retest)	16_47608	11/18/2016	35.0
Girls Locker Room - Sink (2nd retest)	16_47609	1/20/2017	3.0
Womens - Restroom Sink (2nd retest)	16_47610	1/20/2017	15
Concessions - Sink (2nd retest)	16_47611	1/20/2017	8

ND = Non Detect - Lead level is below the set detection limits of 1ppb



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February 28, 2017

Mr. John W. Gilbert
Facilities Manager
Falls City School District #57
111 N. Main Street
Falls City, OR 97344

Via email to: john.gilbert@fallscityschools.org

**RE: Lead Water Testing Report
Falls City Gymnasium Building (Facility #102)
111 N. Main Street
Falls City, Oregon 97344**

TRC Project: 262545

Mr. Gilbert:

At your request, TRC Environmental Corporation (TRC) performed lead in water testing at the Falls City School District Gymnasium Building located at 111 N. Main Street, in Falls City, Oregon.

Testing Procedures

Water testing was performed following the United States Environmental Protection Agency (USEPA) guidance document "3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance." The 3Ts document provides an action limit of 20 parts per billion (ppb) for lead.

Samples were collected from cold water outlets on the interior of the building(s), including drinking fountains, kitchen food preparation sinks, classroom sinks, restroom sinks, mechanical room sinks, faculty lounge sinks, office sinks, plumbed refrigerator water outlets and water bottle refill stations. Any outlets that were broken or not in use at the time sampling was performed were documented as such and were not sampled.

A map of each school building was annotated with the sample locations for each outlet and each sample number and location which were recorded on a Drinking Water Sample Data Sheet & Chain of Custody. Sampling for the District was conducted during the school week on Tuesday through Friday. Samples were collected using plastic 250 mL unpreserved bottles. The unpreserved bottles were preserved by the laboratory after receipt per the analytical method. During sample collection, each bottle was marked with a school identification code followed by the sample number (Ex. 102-01A, 102-01B). Water was sampled without touching the mouth of the container to the faucet filling the bottle to approximately one inch from the top.

Two samples were collected from each of the cold water outlets being tested. The first sample collected was the first draw sample (also called an A sample). The first draw sample is the first flow of water from the outlet into the bottle and represents the water standing in the fixture that would initially be consumed. The flush sample (also called a B sample) was collected into a new sample bottle 30 seconds after the water has been allowed to continuously flow from the outlet. The flush sample represents the water from the plumbing line behind the wall and outlet. Upon completion of a sampling event, the sample bottles were packaged and the Water Sample Data Sheet & Chain of Custody Record was signed and delivered with the samples to Edge Analytical, Inc., an independent third-party, accredited laboratory.

Laboratory and Analytical Method

Analysis for lead was performed by Edge Analytical, Inc. an Oregon drinking water accredited laboratory, using the EPA Method 200.8 for analysis.

Samples Collected and Results

The District identified a total of eight (8) water fixtures prior to conducting the flushing and sampling activities. Sampling was conducted on August 5, 2016. Of the eight (8) first draw samples collected, three (3) had results above the action level of greater than 15 parts per billion (ppb) for lead. The first draw results (A sample) which were at or greater than 15 ppb for lead are noted in the table below. A complete list of the analytical results noting all rooms and outlets sampled can be found in Appendix A.

Sample #	Location and Fixture Description	Analyte	Result	EPA Limit	FCSD Action Limit
102-1A	Girl's Locker Room Sink	Lead	210 ppb	20 ppb	>15 ppb
102-7A	Women's Restroom Sink	Lead	209 ppb	20 ppb	>15 ppb
102-8A	Concession Area Sink	Lead	93 ppb	20 ppb	>15 ppb

ppb = parts per billion
EPA = Environmental Protection Agency
FCSD = Falls City School District

Recommendations

TRC recommended that the District suspend the use of the water at the three (3) fixtures listed in the table above and take action to lower the concentrations for lead to those fixtures by replacing the associated outlet and supply lines from the wall to the outlet. In the interim, as recommended by the USEPA short-term control measures such as flushing the piping in the system at the fixtures noted above, every morning before the facility opens, can be conducted to remove water that has been standing in the interior pipes and or fixtures. Additionally, TRC recommended that those fixtures be suspended from use until after the associated outlet, supply line from the wall to the outlet and any necessary plumbing lines are replaced. Once the replacements are made, TRC recommended the District have the water from the new outlets re-sampled for lead to determine if the outlet, supply line and plumbing line replacement (as applicable) has resolved the issue prior to allowing these faucets to be used without the short-term control measures noted above.

A copy of the sample location map can be found in Appendix B.

Follow-up Samples Collected and Results

Three of the total eight water fixtures were determined to be above the action level at the time sampling was conducted and are represented in the table above. The District elected not to analyze the B samples, and instead proceeded directly to replacing the fixtures at these locations. TRC performed follow-up sampling of the three previously elevated fixtures within this school building once the fixtures were replaced. Follow-up sampling was conducted on November 18, 2016 and January 20, 2017. All three samples remained above the action level during the sampling event in November; however, it was reported that these fixtures were most likely not used once they were replaced. District facilities personnel tagged these fixtures as not in use, but proceeded to utilize them the week prior to the sampling in January in order to mimic regular use. The fixtures were then allowed to set unused for 8-18 hours prior to sample collection on January 20, 2017. The samples for both fixtures were below the action level during the January 20th sampling event.

Conclusions

Based on the fixture replacement activities completed by District and follow-up sample results indicating all sample locations at this facility being below the action level, TRC offers no further recommendations at this time.

TRC appreciates the opportunity to provide you with environmental consulting services. We look forward to working with you on future endeavors. If you have any questions or comments concerning this report, please call TRC at (503) 387-3251.

Sincerely,
TRC Environmental Corporation



Jason Stone
Industrial Hygienist



Ron Landolt
NW Region BSI Practice Manager

Appendix A – Analytical Results



Burlington, WA Corporate Laboratory (a)
 1620 S Walnut St - Burlington, WA 98233 - 800-755-8255 • 360-757-1400
Bellingham, WA Microbiology (b)
 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360-715-1212

Portland, OR Microbiology/Chemistry (c)
 9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503-882-7802
Corvallis, OR Microbiology/Chemistry (d)
 540 SW Third Street - Corvallis, OR 97333 - 541-753-4946
Bend, OR Microbiology (e)
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541-639-8425

INORGANIC COMPOUNDS (IOC) REPORT FOR LEAD & COPPER

Client Name: TRC - Milwaukie
 4120 SE International Way
 Suite A110
 Milwaukie, OR 97222

Reference Number: 16-19594
Project: 102 - Gym Building

System Name:
System ID Number:
DWP Source Number:
Multiple Sources:
Sample Type:
Sample Purpose: Investigative or Other
County:

Analyst: bj
Date Received: 8/5/2016
Report Date: 8/12/2016
Approved By: ljh
Authorized by:

Thanh B Phan
 Lab Manager, Portland

Lab Number	Date Collected	Site / Location	EPA #	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
16_47589	8/5/2016	102-1A - Girls' Locker Room Sink	1030	LEAD	210	ppb	15	1	200.8	4072	
16_47590	8/5/2016	102-2A - Boys' Locker Room Drinking Fountain	1030	LEAD	2.5	ppb	15	1	200.8	4072	
16_47591	8/5/2016	102-3A - Boys' Locker Room Sink	1030	LEAD	7.7	ppb	15	1	200.8	4072	
16_47592	8/5/2016	102-4A - Team Room Sink	1030	LEAD	4.2	ppb	15	1	200.8	4072	
16_47593	8/5/2016	102-5A - Gym Entry Drinking Fountain	1030	LEAD	8.3	ppb	15	1	200.8	4072	
16_47594	8/5/2016	102-6A - Mens' Restroom Sink	1030	LEAD	4.7	ppb	15	1	200.8	4072	
16_47595	8/5/2016	102-7A - Womens' Restroom Sink	1030	LEAD	209	ppb	15	1	200.8	4072	
16_47596	8/5/2016	102-8A - Concessions Sink	1030	LEAD	93	ppb	15	1	200.8	4072	

NOTES:

- RL (Reporting Level): indicates the minimum reporting level.
- AL Federal Action Levels are 0.015 mg/L for Lead and 1.3 mg/L for Copper under the Lead and Copper Rule for public water systems. A blank MCL value indicates a level is not currently established.
- ND (Not Detected): indicates that the compound was not detected above the Reporting Level (RL).

These test results meet all the requirements of NELAP, unless otherwise stated in writing, and relate only to these samples. If you have any questions concerning this report contact Lawrence J Henderson at the above phone number.



DRINKING WATER SAMPLE DATA SHEET & CHAIN OF CUSTODY

16-19594

47589 - 47596



Project #: 262545
School Name (#): 102 - Gym Building

Sampled By: Ron Landolt
Date of Flush: 8/4/16
Date of Sampling: 8/5/16

Sample #	Sample Location	Flush Time	Sample Time	Standing Time	Analysis - Pb by EPA 200.8 (250 mL Bottle)	Laboratory Sample ID
102-01A	Girl's Locker Room - Sink	1504	0821		X	
01B	" "		0822		X	
02A	Boy's Locker Room - drinking fountain	1506	0824		X	
02B	" "		0825		X	
03A	Boy's Locker Room - Sink	1507	0824		X	
03B	" "		0825		X	
04A	Team Room - Sink	1508	0827		X	
04B	" "		0828		X	
05A	Gym entry - drinking fountain	1511	0829		X	
05B	" "		0844		X	
06	Men's Restroom - Sink	1512	0830		X	
07	Women's Restroom - Sink	1513	0831		X	
07	" "		0835		X	
08	concession's - Sink	1514	0838		X	
08	" "		0839		X	
Relinquished by: (Signature) _____ Date: 8/5/16 Received by: (Signature) _____ Date: 8-5-16						
Remarks: Preserved (Nitric Acid) or Unpreserved Turnaround Time: 5-day Please hold all B samples and invoice TRC for Analysis Due 8/12/16						



DRINKING WATER SAMPLE DATA SHEET & CHAIN OF CUSTODY RECORD

Project #: 262545, Phase 2
School Name (#): Falls City S.D. - Gymnasium Building

Sampled By: Rev. Leudelt
Date of Flush: 11/17/16
Date of Sampling: 11/19/16



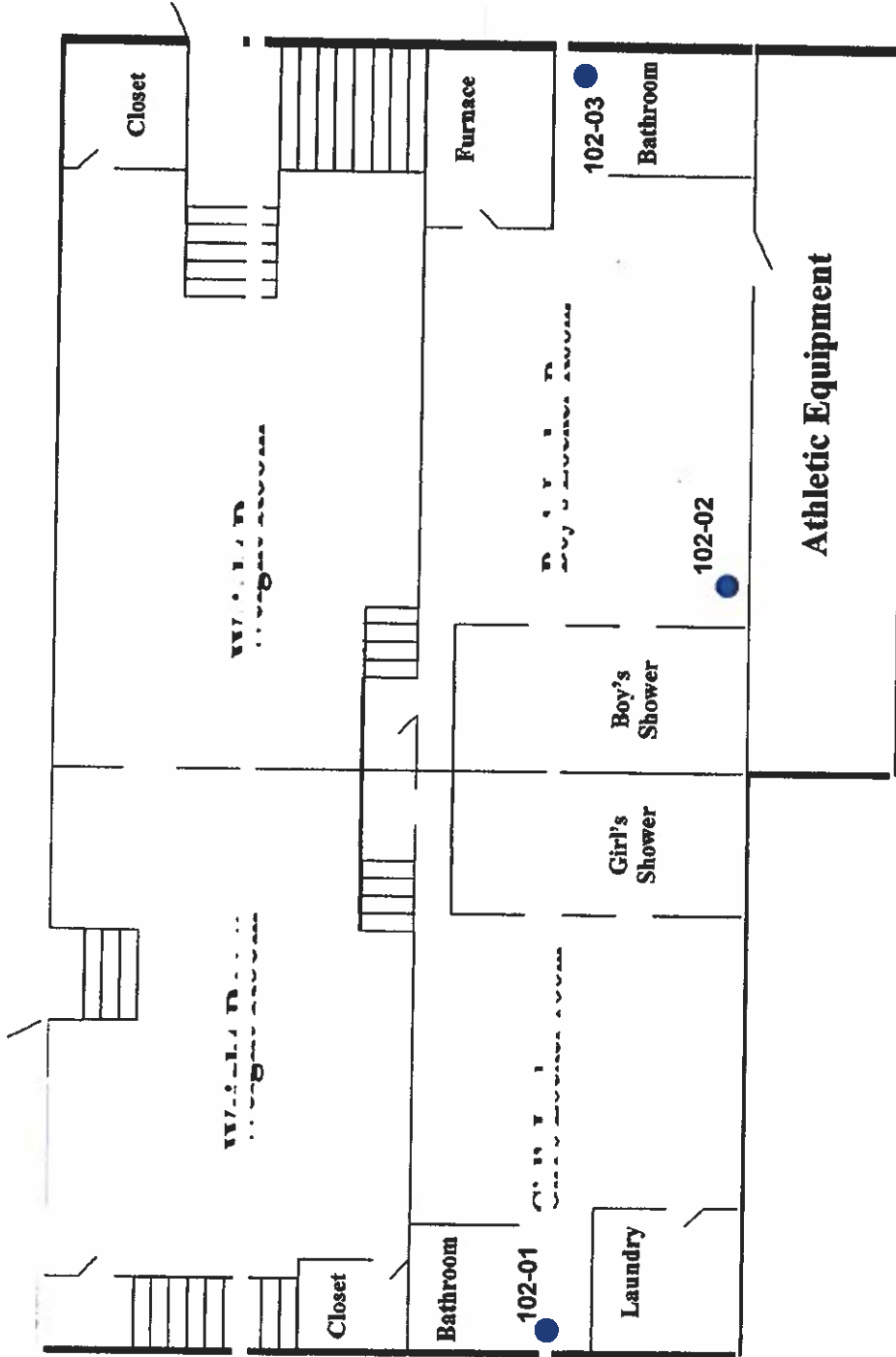
Sample #	Sample Location	Flush Time	Sample Time	Standing Time	Analysis - Pb EPA 200.8 (250 mL Bottle)	Laboratory Sample ID
102-01C	Girl's Locker Room Sink	~ 17:25	4:00		(Pb) - Lead	
102-01D	" "		4:00		(Pb) - Lead	
102-07C	Women's Restroom Sink	~ 17:29	4:02		(Pb) - Lead	
102-07D	" "		4:04		(Pb) - Lead	
102-08C	Concession Area Sink	~ 17:36	4:05		(Pb) - Lead	
102-08D	" "		4:05		(Pb) - Lead	
16-28838 70434 - 70436						
Relinquished by: (Signature) _____ Date: 11/16/16 Received by: (Signature) _____ Date: 11/21/16						
Remarks: Preserved (Nitric Acid) or Unpreserved _____ Turnaround Time (Normal or Rush) _____						
Please hold D sample at laboratory pending C sample analysis						

Acidified 11/15/16 @ 11:30
CPF

UPS
1300

Appendix B – Sample Location Map(s)

Drinking Water Sample Location



LEGEND

- — Drinking Water Sample Location

ASBESTOS SURVEY REPORT SAMPLE LOCATION MAP

FALLS CITY SCHOOL DISTRICT - LIBRARY/SCIENCE BUILDING
111 NORTH MAIN STREET
FALLS CITY, OREGON 97344

TRC Project No.: 262545

Figure: 1

Drawn by: MC

Checked by: RL

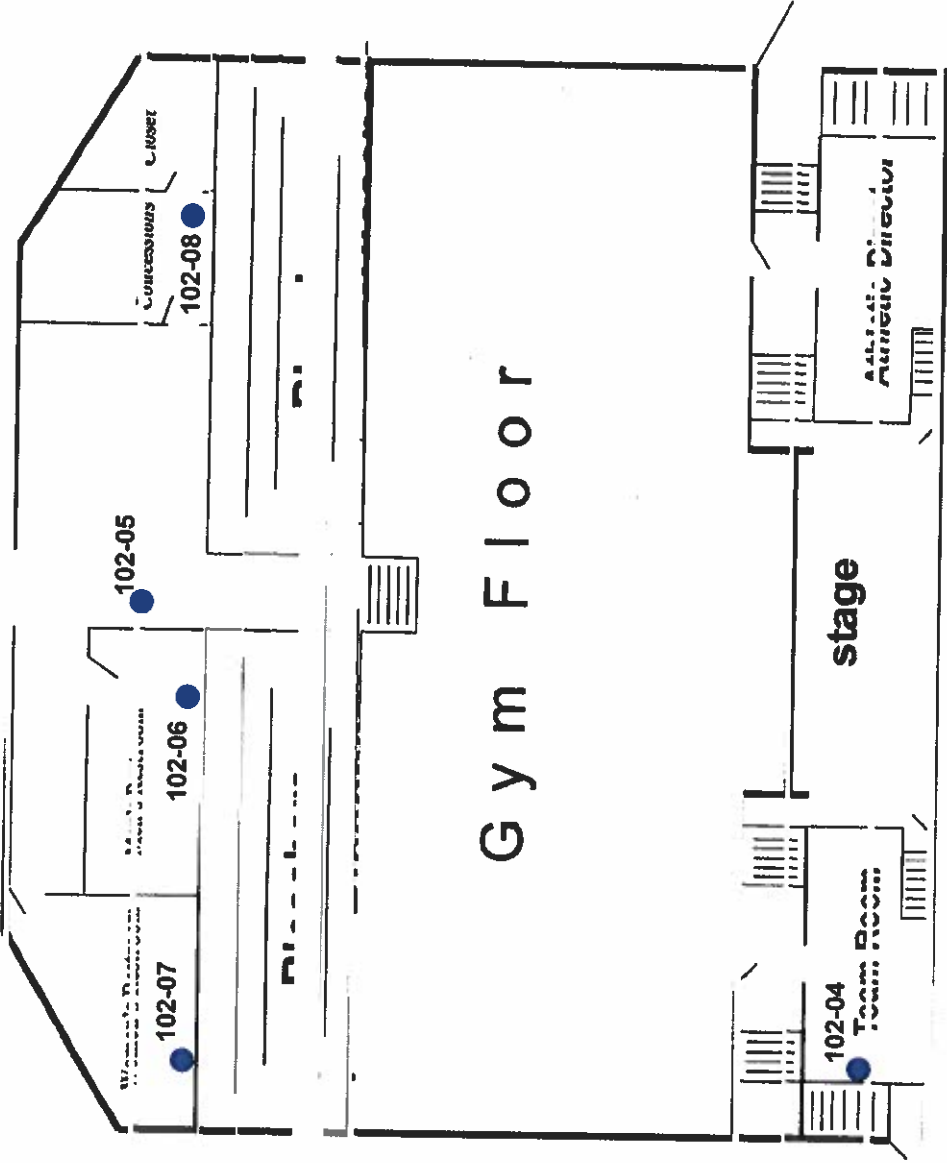
Date: 2/28/17



4120 SE International Way, Suite A110
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Phone: (503) 387-3251 Fax: (503) 908-1318

Gym Floor



LEGEND

- — Drinking Water Sample Location

ASBESTOS SURVEY REPORT SAMPLE LOCATION MAP

FALLS CITY SCHOOL DISTRICT - LIBRARY/SCIENCE BUILDING
111 NORTH MAIN STREET
FALLS CITY, OREGON 97344

TRC Project No.: 262545
Drawn by: MC

Figure: 2
Date: 2/28/17

Checked by: RL



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