

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

Fixture Location/Description	Fixture ID #	Test Date	Test Result (ppb)
Room 111 - Drinking Fountain	16_47621	8/5/2016	9.2
Room 111 - Restroom Sink	16_47622	8/5/2016	1.0
Hall - Drinking Fountain	16_47623	8/5/2016	ND
Mens Restroom Sink	16_47624	8/5/2016	ND
Womens Restroom Sink	16_47625	8/5/2016	ND
Staff Lounge Sink	16_47626	8/5/2016	1.4
Room 107 - Sink Left	16_47627	8/5/2016	31.8
Room 107 - Sink Right	16_47628	8/5/2016	4.4
Hall - Drinking Fountain	16_47629	8/5/2016	ND
Kitchen - Sink Left	16_47630	8/5/2016	1.1
Kitchen - Sink Left	16_47631	8/5/2016	1.0
First Floor Boys Restroom - Sink Left	16_47632	8/5/2016	ND
First Floor Boys Restroom - Sink Right	16_47633	8/5/2016	ND
Room 110 - Drinking Fountain	16_47634	8/5/2016	6.6
Room 109 - Drinking Fountain	16_47635	8/5/2016	1.7
Room 108 - Drinking Fountain	16_47636	8/5/2016	6.8
First Floor Hall - Drinking Fountain	16_47637	8/5/2016	ND
Health Room - Sink	16_47638	8/5/2016	ND
Room 112 - Drinking Fountain	16_47639	8/5/2016	1.3
First Floor Hall - Drinking Fountain	16_47640	8/5/2016	ND
Room 113 - Drinking Fountain	16_47641	8/5/2016	35.8
Girls Restroom - Sink Left	16_47642	8/5/2016	ND
Girls Restroom - Sink Right	16_47643	8/5/2016	ND
Room 101 - Drinking Fountain	16_47644	8/5/2016	9.1
Room 102 - Eye Wash	16_47645	8/5/2016	1.0
Room 102 - Drinking Fountain	16_47646	8/5/2016	2.1
Room 102 - Sink	16_47647	8/5/2016	3.6
Room 102 - Sink	16_47648	8/5/2016	5.0
Room 102 - Sink	16_47649	8/5/2016	4.9
Room 107 - Left Sink (retest)	16_70437	11/18/2016	ND
Room 113 - Drinking Fountain (retest)	16_70438	11/18/2016	9.0

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



4120 SE International Way
Suite A 110
Milwaukie, OR 97222

503.387.3251 PHONE
503.908.1318 FAX

www.trcsolutions.com

February 28, 2017

Mr. John W. Gilbert
Facilities Manager
Falls City School District #57
81 E. North Main Street
Falls City, OR 97344

Via email to: john.gilbert@fallscityschools.org

**RE: Lead Water Testing Report
Falls City Elementary School Building (Facility #103)
177 Prospect 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 Elementary School Building located at 177 Prospect 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. 103-01A, 103-01B). 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 twenty-nine (29) water fixtures prior to conducting the flushing and sampling activities. Sampling was conducted on August 5, 2016. Of the twenty-nine (29) first draw samples collected, two (2) 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
103-07A	Room 107 Left Sink	Lead	31.8 ppb	20 ppb	>15 ppb
103-21A	Room 113 Drinking Fountain	Lead	35.8 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 both 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

Two of total twenty-nine 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 two previously elevated fixtures within this school building once the fixtures were replaced. Follow-up sampling was conducted on November 18, 2016. The fixtures were then allowed to set unused for 8-18 hours prior to sample collection on November 18, 2016, and analytical results indicated that both samples were below the action level.

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)
 1520 S Walnut St - Burlington, WA 98233 - 800.788.8288 - 360.757.1400

Bellingham, WA Microbiology (b)
 805 Orchard Ct Ste 4 - Bellingham, WA 98226 - 360.715.1212

Portland, OR Microbiology/Chemistry (c)
 9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR Microbiology/Chemistry (d)
 540 SW Third Street - Corvallis, OR 97333 - 541.753.4845

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: 16-19600
Project: 103 - Elementary School

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
 Thanh B Phan
 Lab Manager, Portland

Lab Number	Date Collected	Site / Location	EPA #	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
16_47621	8/5/2016	103-01A - Room 111 - Drinking Fountain	1030	LEAD	9.2	ppb	15	1	200.8	4072	
16_47622	8/5/2016	103-02A - Room 111 Restroom Sink	1030	LEAD	1.0	ppb	15	1	200.8	4072	
16_47623	8/5/2016	103-03A - Hall - Drinking Fountain	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47624	8/5/2016	103-04A - Men's Restroom Sink	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47625	8/5/2016	103-05A - Women's Restroom Sink	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47626	8/5/2016	103-06A - Staff Lounge Sink	1030	LEAD	1.4	ppb	15	1	200.8	4072	
16_47627	8/5/2016	103-07A - Room 107 Sink Left	1030	LEAD	31.8	ppb	15	1	200.8	4072	
16_47628	8/5/2016	103-08A - Room 107 Sink Right	1030	LEAD	4.4	ppb	15	1	200.8	4072	
16_47629	8/5/2016	103-09A - Hall - Drinking Fountain	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47630	8/5/2016	103-10A - Kitchen Sink Left	1030	LEAD	1.1	ppb	15	1	200.8	4072	
16_47631	8/5/2016	103-11A - Kitchen Sink Left	1030	LEAD	1.0	ppb	15	1	200.8	4072	
16_47632	8/5/2016	103-12A - 1st Floor Boys' RR Sink Left	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47633	8/5/2016	103-13A - 1st Floor Boys' Restroom Sink Right	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47634	8/5/2016	103-14A - Room 110 Drinking Fountain	1030	LEAD	6.6	ppb	15	1	200.8	4072	
16_47635	8/5/2016	103-15A - Room 109 Drinking Fountain	1030	LEAD	1.7	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.

INORGANIC COMPOUNDS (IOC) REPORT FOR LEAD & COPPER

Lab Number	Date Collected	Site / Location	EPA #	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
16_47636	8/5/2016	103-16A - Room 108 Drinking Fountain	1030	LEAD	6.8	ppb	15	1	200.8	4072	
16_47637	8/5/2016	103-17A - 1st Floor Hall Drinking Fountain	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47638	8/5/2016	103-18A - Health Room Sink	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47639	8/5/2016	103-19A - Room 112 Drinking Fountain	1030	LEAD	1.3	ppb	15	1	200.8	4072	
16_47640	8/5/2016	103-20A - 1st Floor Hall Drinking Fountain	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47641	8/5/2016	103-21A - Room 113 Drinking Fountain	1030	LEAD	35.8	ppb	15	1	200.8	4072	
16_47642	8/5/2016	103-22A - Girls' Restroom Sink Left	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47643	8/5/2016	103-23A - Girls' Restroom Sink Right	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_47644	8/5/2016	103-24A - Room 101 Drinking Fountain	1030	LEAD	9.1	ppb	15	1	200.8	4072	
16_47645	8/5/2016	103-25A - Room 102 Eye Wash	1030	LEAD	1.0	ppb	15	1	200.8	4072	
16_47646	8/5/2016	103-26A - Room 102 Drinking Fountain	1030	LEAD	2.1	ppb	15	1	200.8	4072	
16_47647	8/5/2016	103-27A - Room 102 Sink	1030	LEAD	3.6	ppb	15	1	200.8	4072	
16_47648	8/5/2016	103-28A - Room 102 Sink	1030	LEAD	5.0	ppb	15	1	200.8	4072	
16_47649	8/5/2016	103-29A - Room 102 Sink	1030	LEAD	4.9	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.



DRINKING WATER SAMPLE DATA SHEET & CHAIN OF CUSTODY FORM

16-19600

47621 - 47649

Project #: 262545
School Name (#): 103-Elementary School

Sampled By: Ron Landolt
Date of Flush: 8/1/16
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	
103-01A	Room 111 - drinking fountain	1527	0851		X		
01B	" "		0852		X		
02A	Room 111 Restroom - sink	1528	0851		X		
02B	" "		0852		X		
03A	Hall - drinking fountain	1529	0853		X		
03B	" "		0854		X		
04A	Men's Restroom - sink	1530	0855		X		
04B	" "		0856		X		
05A	Women's Restroom - sink	1531	0855		X		
05B	" "		0856		X		
06A	Staff Lounge - Sink	1532	0857		X		
06B	" "		0858		X		
07A	Room 107 - Sink (left)	1534	0859		X		
07B	" "		900		X		
08A	Room 107 - Sink (right)	1534	0859		X		
08B	" "		900		X		
09A	Half drinking fountain	1535	901		X		
09B	" "		902		X		
10A	Kitchen - sink (left)	1537	903		X		
10B	" "		904		X		
11A	Kitchen - sink (left)	1537	903		X		
11B	" "		904		X		
12A	1st Floor Boys RR - Sink (left)	1540	905		X		
12B	" "		906		X		
Relinquished by: (Signature) <i>Ron Landolt</i>		Date: 8/5/16	Received by: (Signature) <i>[Signature]</i>		Date: 8/5/16	Received by: (Signature)	
(Printed) Ron Landolt		Time: 14:20	(Printed) Thank Phang		Time: 17:00	(Printed)	
Remarks: Preserved (Nitric Acid) or Unpreserved <input checked="" type="checkbox"/> Turnaround Time: <u>Saturday</u>							
Please hold all B samples and invoice TRC for Analysis <u>Due 8/12/16</u>							
Condition of Samples: <u>DM NGDYED</u>					Acceptable: Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Page 1 of 3

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DRINKING WATER SAMPLE DATA SHEET & CHAIN OF CUSTODY RECORD

Project #: 262545
School Name (#): 103-Elementary School

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
103-13A	1st Floor Boys Restroom Sink (right)	1540	0905		X	
13B	"		0906		X	
14A	Room 110 - drinking Fountain	1542	0907		X	
14B	"		0908		X	
15A	Room 109 - drinking Fountain	1543	0907		X	
15B	"		0908		X	
16A	Room 105 - drinking Fountain	1545	0909		X	
16B	"		0910		X	
17A	1st Floor Hall - drinking Fountain	1546	0910		X	
17B	"		0903		X	
18A	Health Room - Sink	1548	0911		X	
18B	"		0912		X	
19A	Room 112 - drinking Fountain	1550	0913		X	
19B	"		0914		X	
20A	1st Floor Hall - drinking Fountain	1551	0915		X	
20B	"		0903		X	
21A	Room 113 - drinking Fountain	1552	0915		X	
21B	"		0916		X	
22A	Girls Restroom - Sink (left)	1554	0917		X	
22B	"		0918		X	
23A	Girls Restroom - Sink (right)	1554	0917		X	
23B	"		0918		X	
24A	Room 101 - drinking Fountain	1550	0919		X	
24B	"		0920		X	
Reinquished by: (Signature)	Date: 8/5/16	Received by: (Signature)	Reinquished by: (Signature)	Date:	Received by: (Signature)	
(Printed) Ron Landolt	Time: 17:20	(Printed) Thank	(Printed)	Time:	(Printed)	

Remarks: Preserved (Nitric Acid) or Unpreserved
Please hold all B samples and invoice TRC for Analysis

Turnaround Time: 5-day
Condition of Samples: Acceptable: Yes No
Comments:



Burlington, WA Corporate Laboratory (e)
 1620 S Walnut St - Burlington, WA 98233 - 800.755.8285 - 360.757.1400
Bellingham, WA Microbiology (b)
 806 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 - 541.753.4945
Bend, OR Microbiology (e)
 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

LEAD & COPPER RULE REPORT

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

Reference Number: 16-28839

Project: 262545-Phase 2 Falls City
 S.D.- Elementary Bldg

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

Analyst: mvp
Date Received: 11/18/2016
Report Date: 11/23/2016
Approved By: bj
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_70437	11/18/2016	103-07C - Room 107 - Left Sink	1030	LEAD	ND	ppb	15	1	200.8	4072	
16_70438	11/18/2016	103-21C - Room 113 - Drinking Fountain	1030	LEAD	9	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 RECORD

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

Sampled By: *Rex Lovell*
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
103-07C	Room 107 - Left Sink	~ 7:50	8:13		(Pb) - Lead	
103-07D	"		8:14		(Pb) - Lead	
103-21C	Room 113 - Drinking Fountain	~ 7:55	8:19		(Pb) - Lead	
103-21D	"		8:20		(Pb) - Lead	

16-28839
70437 - 70438

Relinquished by: (Signature) *Rex Lovell*

Date: 11/17/16

Received by: (Signature) *Frank Phan*

Date: 11/21/16

Relinquished by: (Signature)

Date: 11/21/16

Received by: (Signature) *Amanda Lewis*

Remarks: Preserved (Nitric Acid) or ~~unpreserved~~ Turnaround Time: Normal or Rush

Condition of Samples: Acceptable: Yes No

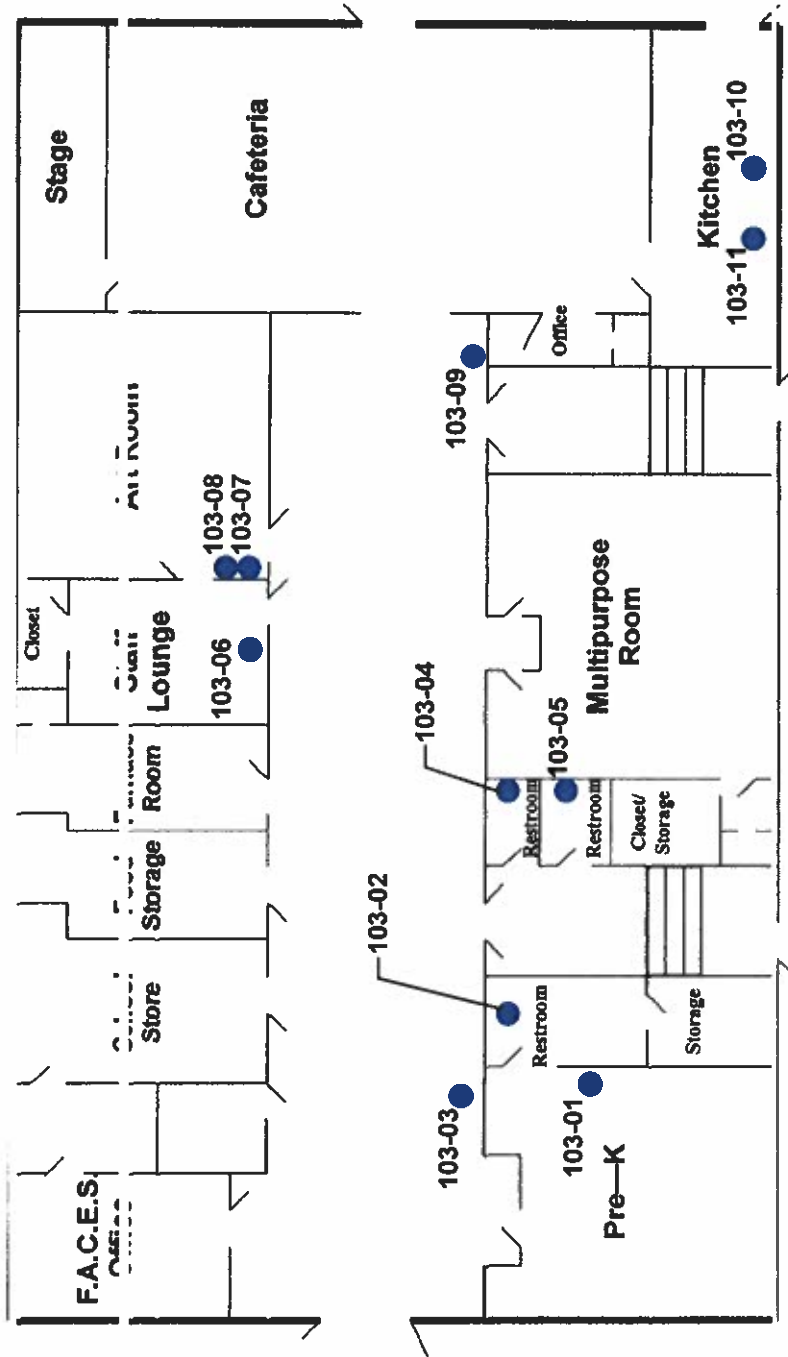
Acidified 11/18/16 @ 11:30
CPH

Page 1 of 1

UPS
130°C

Appendix B – Sample Location Map(s)

Environmental Risk



First 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



4120 SE International Way, Suite A110
Milwaukie, Oregon 97222

Phone: (503) 387-3251 Fax: (503) 908-1318

TRC Project No.: 262545

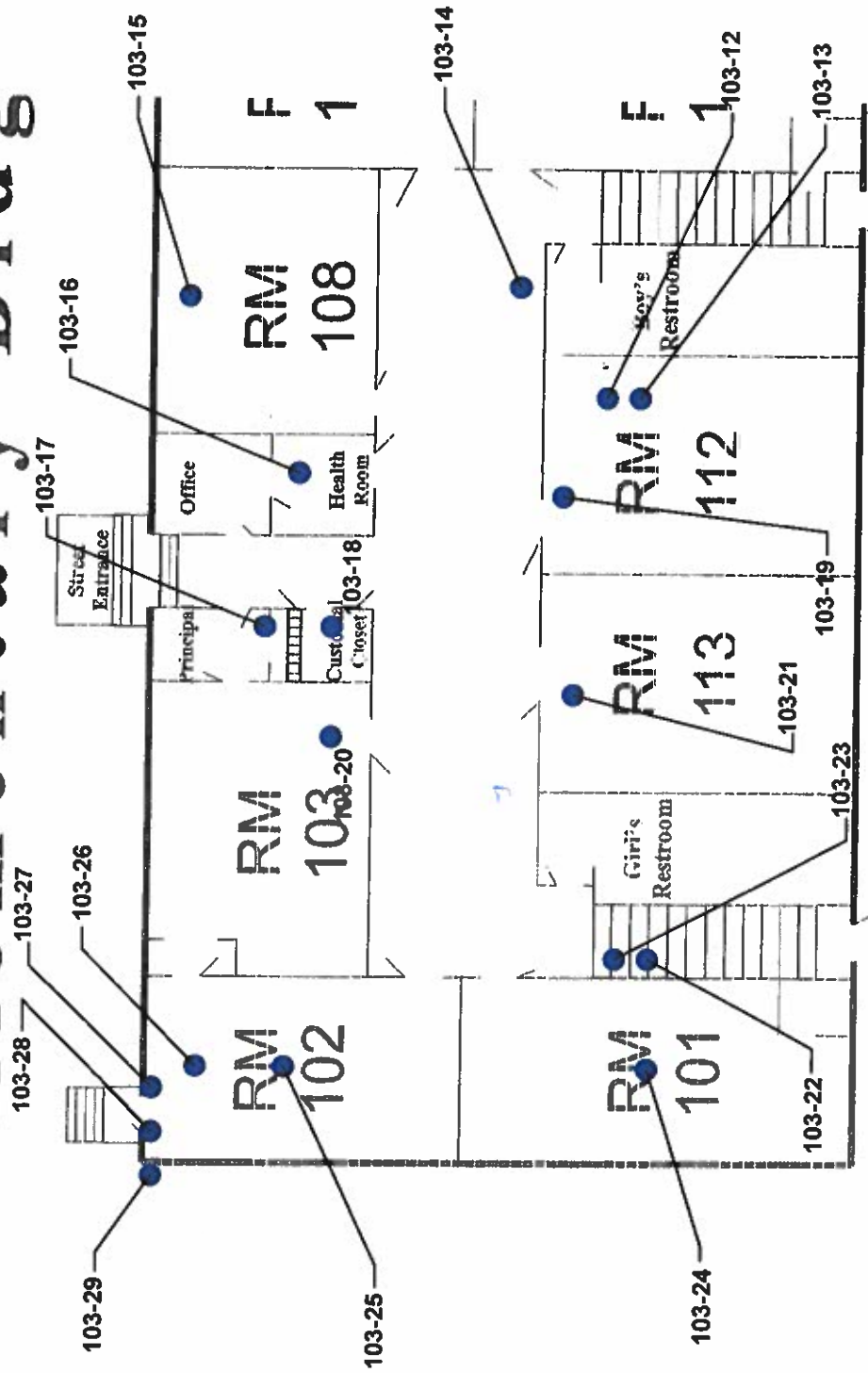
Figure: 1

Drawn by: MC

Checked by: RL

Date: 2/28/17

Elementary Bldg



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



4120 SE International Way, Suite A110
Milwaukie, Oregon 97222
Phone: (503) 387-3251 Fax: (503) 908-1318