

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** 101 N. Main Street Falls City, OR 97344

Via email to: john.gilbert@fallscityschools.org

RE: Lead Water Testing Report

Falls City High School Building (Facility #101)

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 High School 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 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. 101-01A, 101-01B). 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.

February 28, 2017

TRC Project: 262545

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 ten (10) water fixtures prior to conducting the flushing and sampling activities. Sampling was conducted on August 5, 2016. Of the ten (10) first draw samples collected, five (5) 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
101-01A	Cafeteria Sink	Lead	21.7 ppb	20 ppb	>15 ppb
001-07A	Room 21 – Sink Faucet	Lead	27.3 ppb	20 ppb	>15 ppb
001-08A	Room 21 – Sink Faucet	Lead	32.7 ppb	20 ppb	>15 ppb
001-09A	Room 21 – Sink Faucet	Lead	103 ppb	20 ppb	>15 ppb
001-10A	Room 21 – Sink Faucet	Lead	54.8 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 the five (5) 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 and potentially the associated plumbing line behind the wall. 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

Five of total 10 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 five 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. Two of the five samples remained above the action level during the sampling event in November; however, it was reported that these two 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 not 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

February 28, 2017

TRC Project: 262545

Appendix A – Analytical Results

February 28, 2017 TRC Project: 262545

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 - 541.753.4946

Bend, OR Microbiology (e) 20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

Page 1 of 1

Project: 101 - High School

INORGANIC COMPOUNDS (IOC) REPORT FOR LEAD & COPPER

Client Name: TRC - Milwaukie

ANALYTICAL

4120 SE International Way

Suite A110

Milwaukie, OR 97222

System Name:

System ID Number:

DWP Source Number:

Multiple Sources:

Sample Type:

Sample Purpose: Investigative or Other

County:

Analyst: bj

Reference Number: 16-19602

Date Received: 8/5/2016

Report Date: 8/12/2016

Approved By: Ijh

Authorized by:

Thanh B Phan ab Manager, Portland

Lab Number	Date Collected	Site / Location	EPA#	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
16_47659	8/5/2016	101-01A - cafeteria - sink	1030	LEAD	21.7	ppb	15	1	200.8	4072	
16_47660	8/5/2016	101-02A - ground floor men's restroom - sink	1030	LEAD	3.6	ppb	15	1	200.8	4072	
16_47661	8/5/2016	101-03A - 1st florr hall - drinking fountain	1030	LEAD	4.1	ppb	15	1	200.8	4072	
16_47662	8/5/2016	101-04A - room 2A - sink	1030	LEAD	2.2	ppb	15	1	200.8	4072	
16_47663	8/5/2016	101-05A - girls restroom- 1st floor sink	1030	LEAD	0.9	ppb	15	1	200.8	4072	
16_47664	8/5/2016	101-06A - 1st floor girl's restroom - sink	1030	LEAD	1.3	ppb	15	1	200.8	4072	
16_47665	8/5/2016	101-07A - room 21 - sink	1030	LEAD	27.3	ppb	15	1	200.8	4072	
16_47666	8/5/2016	101-08A - room 21 - sink	1030	LEAD	32.7	ppb	15	1	200.8	4072	
16_47667	8/5/2016	101-09A - room 21 - sink	1030	LEAD	103	ppb	15	1	200.8	4072	
16_47668	8/5/2016	101-10A - room 21 - sink	1030	LEAD	54.8	ppb	15	1	200.8	4072	

NOTES:

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.

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).



DRINKING WATER SAMPLE DATA SHEET & CHAIN OF CUSTOI 16-19602

School Name (#): 101- High School Project #: 261545

Date of Flush: 8/4 Sampled By: Ron

Date of Sampling: \$ 5/16

Remarks: Preserved (N Please hold all B sampl	(Printed) Kon Landolf	Relinquished by: (Signature)					0 B	104	- 09B	-09A	- 08-3	10% A	-078		- A6 8	- 06 A	1058	105 P	· 048	1-04A	-038	-03 A	107B	-02A	1 -01B	101 - GIA	Sample#
Remarks: Preserved (Nitric Acid) or Unpreserved Please hold all B samples and invoice TRC for Analysis	Time: 14:26	Date: Re					1, ,,	Rosen 2) . Sink		Room 21 - Sink	11 11	Ream Pl -Sink	11	Room 21 - 5101		1st Floor Girls Re		Girl's Restroans	11	Room 2A-Sin	11	1 St Floor Hall-	* * * * * * * * * * * * * * * * * * * *	THE FLOOR MEN'S RO	a di	Cateteria - S	Sample Location
Tu	Thanh Phan	Received by: (Signature)						,								Restroom-Sink		-1stbar Sint				drinking fountain	, ,	Restrann - Sint		36	cation
0.7.0								150		1500		479		152		1455		1455		1453		145		3741		5441	Flush Time
Condition of Samples: No Acceptable: Yes No Comments:	Printed / C	Relinquished by: (Signature)					08/8	0817	08/8	08/7	8180	1180	8180	0817	0815	4/80	Cox 15	4/80	0812	1130	0825	0810	CK07	90g	0807	0806	Sample Time
NO 91/2/8 PM	Time: 1760	Date:																									Standing Time
Page of	(Printed)	Received by: (Signature)	X	×	×	×	×	×	×	X	×	×	×	×	X	×	×	×	×	×	×	×	X	×	×	X	Analysis – Pb by EPA 200.8 (250 mL Bottle)
05 L 20																											Laboratory Sample ID



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Page 1 of 1

Project: 262545-Phase 2 Falls City

S.D.-High School Bldg

Reference Number: 16-28836

LEAD & COPPER RULE REPORT

Client Name: TRC - Milwaukie

4120 SE International Way

Suite A110

Milwaukie, OR 97222

System Name: Analyst: mvp

System ID Number: Date Received: 11/18/2016

DWP Source Number: Report Date: 11/23/2016

Multiple Sources: Approved By: bj
Sample Type: Authorized by:

Sample Purpose: Investigative or Other

County:

Thanh B Phan .ab Manager, Portland

Lab Number	Date Collected	Site / Location	EPA#	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
16_70428	11/18/2016	101-01C - Cafeteria Sink	1030	LEAD	24	ppb	15	1	200.8	4072	
16_70429	11/18/2016	101-07C - Room 21 - Left Sink	1030	LEAD	9	ppb	15	1	200.8	4072	
16_70430	11/18/2016	101-08C - Room 21 - Center Left Sink	1030	LEAD	2	ppb	15	1	200.8	4072	
16_70431	11/18/2016	101-09C - Room 21 - Center Right Sink	1030	LEAD	25	ppb	15	1	200.8	4072	
16_70432	11/18/2016	101-10C - Room 21 - Right Sink	1030	LEAD	3	ppb	15	1	200.8	4072	

NOTES:

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.

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).



DRINKING WATER SAMPLE DATA SHEET & CHAIN OF CUSTODY RECORD



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

Sampled By: Roulonellt
Date of Flush: 11/17/14

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Tradition		
à.	no.	
2	-	-

Relinquished by: (Signature) (Printed)			101-10D	101-10C	101-09D	101-09C	101-08D	101-08C	101-07D	101-01D	101-01C	Sample #
Received by: (Signature) Time: (Printed) Time: (Printed) (Pri			20 20	Room 21 – Right Sink		Room 21 – Center Right Sink	2	Room 21 - Center I off Sink	" " " NOOM 21 — LEIT SINK		Cateteria Sink	Sample Location
		6-28836		トレート		h:Ll ~		7.5	5	2	-17:10	Flush Time
Relinquished by: (Signature) (Printed) Condition of Samples: Acceptable: Yes No Comments:		ص ص	7:56	55:L	55.6	7.64	43:1.	7:55	1.52	7:48	Lhil	Sample Time
Date: //-21-/ Time: //-00												Standing Time
Redeived by: (Signature) (Printed) (Printed) Page 1 of 1				(Pb) – Lead	(Ph) — Lead	(Ph) - I ead	(Pb) – Lead	(Pb) – Lead	(Pb) – Lead	(Pb) – Lead	(Pb) – Lead	Analysis – Pb EPA 200.8 (250 mL Bottle)
Wis												Laboratory Sample ID
13.0°C												

ACI DI PIPA 11/18/16 @ 11:30



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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

Page 1 of 1

Project: 262545- Falls City SD -

High School, Phase 3

LEAD & COPPER RULE REPORT

Client Name: TRC - Milwaukie

4120 SE International Way

Suite A110

Milwaukie, OR 97222

Analyst: bj

Date Received: 1/20/2017

Reference Number: 17-01356

Report Date: 1/24/2017 Approved By: anp

Authorized by:

System Name: System ID Number:

DWP Source Number: Multiple Sources:

Sample Type:

Sample Purpose: Investigative or Other

County:

Chemist/Microbiologist

Lab Number	Date Collected	Site / Location	EPA#	Analyte Name	Result	Units	AL	RL	METHOD	Lab	Comments
17_03154	1/20/2017	101-01E - Cafeteria Sink	1030	LEAD	4	ppb	15	1	200.8	4072	
17_03155	1/20/2017	101-09E - Room 21 - Center Right Sink	1030	LEAD	9	ppb	15	1	200.8	4072	

NOTES:

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ND (Not Detected): indicates that the compound was not detected above the Reporting Level (RL).



DRINKING WATER SAMPLE DATA SHEET & CHAIN OF CUSTODY RECORD 17-01356

School Name (#): Falls City S.D. - High School Project #: 262545, Phase 3

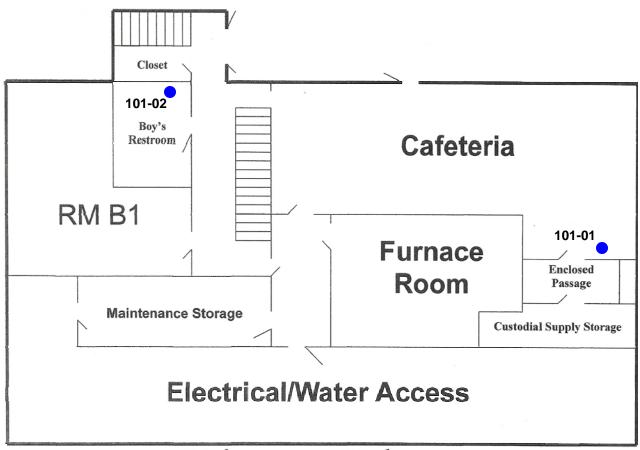
Date of Sampling: 1/20/17

Please hold F sample at	For Chable	Reiniquistica oy: (Signature)	Delinquished by (Constant)									101-021	101 005	101 00E	101-01E		Sample#	
Please hold F sample at laboratory pending E sample analysis	(Fi	1											" " " Center Kight Sink		teria :		Sample Location	
	<u> </u>)														Flush Time	
Acceptable: Yes No Comments:		Relinquished by: (Signature)					· Vyrivi)					8:46	5F.R	8:43	8.42		ne Sample Time	
No	Time:	Date:														C	Standing Time	
Page of	(Printed)	Received by: (Signature)										(Pb) – Lead	(Pb) – Lead	(Pb) – Lead	(Pb) – Lead	(25	Analysis – Pb EPA 200.8	1 0 11 11
+-		515 the 4122														Sample ID	Laboratory	

Appendix B – Sample Location Map(s)

February 28, 2017 TRC Project: 262545

High School



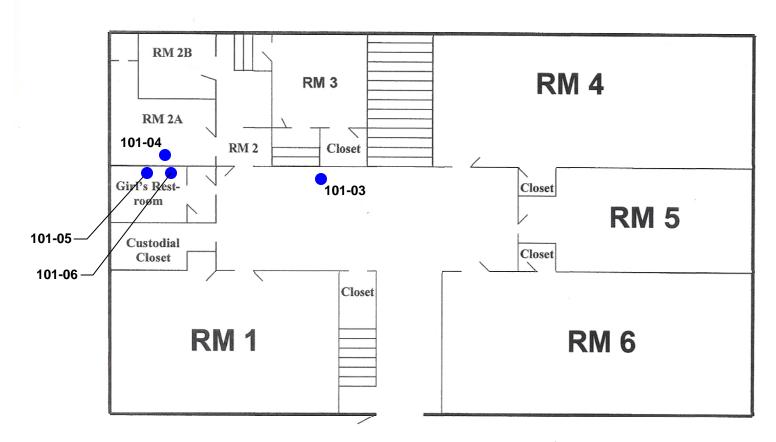
First Floor

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 Checked by: RL Date: 2/28/17



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

High School



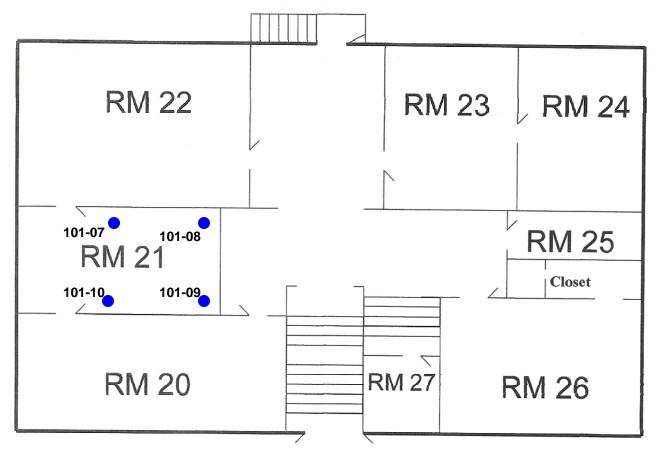
Second Floor

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 Checked by: RL Date: 2/28/17



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High School



Third Floor

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