

Water Testing Results - Falls City Library/Science Building
Action Level is 15 parts per billion (ppb)

| Fixture Location/Description | Fixture ID # | Test Date | Test Result (ppb) |
|---|--------------|------------|-------------------|
| Library - Sink | 16_47598 | 8/5/2016 | 1.9 |
| Library - Drinking Fountain | 16_47599 | 8/5/2016 | 1.0 |
| Girls Bathroom - Sink Left | 16_47600 | 8/5/2016 | 8.7 |
| Girls Bathroom - Sink Right | 16_47601 | 8/5/2016 | 9.3 |
| Boys Bathroom - Sink Left | 16_47602 | 8/5/2016 | 7.7 |
| Boys Bathroom - Sink Right | 16_47603 | 8/5/2016 | 2.5 |
| Science Room - Sink | 16_47604 | 8/5/2016 | 4.8 |
| Science Room - Sink | 16_47605 | 8/5/2016 | 7.5 |
| Science Room - Sink | 16_47606 | 8/5/2016 | 5.7 |
| Science Room - Sink | 16_47607 | 8/5/2016 | 6.0 |
| Science Room - Sink | 16_47608 | 8/5/2016 | 4.7 |
| Science Room - Sink | 16_47609 | 8/5/2016 | 5.0 |
| Science Room - Eye Wash | 16_47610 | 8/5/2016 | 1.5 |
| Science Room Left - Sink | 16_47611 | 8/5/2016 | 20.6 |
| Science Room Left - Eye Wash | 16_47612 | 8/5/2016 | 4.9 |
| Science Room Left - Sink | 16_47613 | 8/5/2016 | 16.4 |
| Science Room Left - Eye Wash | 16_47614 | 8/5/2016 | 9.2 |
| Science Room Left - Left Sink (retest) | 16_70426 | 11/18/2016 | 47 |
| Science Room Left - Left Side of Right Sinks (retest) | 16_47616 | 11/18/2016 | 18 |
| Science Room Left - Left Sink (2nd retest) | 17_03147 | 1/20/2017 | 3.0 |
| Science Room Left - Left Side of Right Sinks (2nd retest) | 17_03148 | 1/20/2017 | 1.0 |
| 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
111 N. Main Street
Falls City, OR 97344

Via email to: john.gilbert@fallscityschools.org

**RE: Lead Water Testing Report
Falls City Library-Science Building (Facility #100)
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 Library/Science 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. 100-01A, 100-01B). 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 seventeen (17) water fixtures prior to conducting the flushing and sampling activities. Sampling was conducted on August 5, 2016. Of the seventeen (17) 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 B.

| Sample # | Location and Fixture Description | Analyte | Result | EPA Limit | FCSD Action Limit |
|-----------------|---|----------------|---------------|------------------|--------------------------|
| 100-14A | Science Room Loft Sink (Left) | Lead | 20.6 ppb | 20 ppb | >15 ppb |
| 100-16A | Science Room Loft Sink (Left Side of Right Sinks) | Lead | 16.4 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 two (2) 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

Two of total 17 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. Sampling was conducted on November 18, 2016 and January 20, 2017. Both samples remained above the action level during the sampling event in November; however, it was reported that the fixtures were 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)
 1520 S Walnut St. - Burlington, WA 98233 - 800.735.9295 - 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 - 503.662.7602
Corvallis, OR Microbiology/Chemistry (d)
 540 SW Third Street - Corvallis, OR 97333 - 541.753.4346
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: 16-19596
Project: 100 - Library/Science 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
 Thanh B Phan
 Lab Manager, Portland

| Lab Number | Date Collected | Site / Location | EPA # | Analyte Name | Result | Units | AL | RL | METHOD | Lab | Comments |
|------------|----------------|--|-------|--------------|--------|-------|----|----|--------|------|----------|
| 16_47598 | 8/5/2016 | 100-01A - Library - Sink | 1030 | LEAD | 1.9 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47599 | 8/5/2016 | 100-02A - Library - Drinking Fountain | 1030 | LEAD | 1 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47600 | 8/5/2016 | 100-03A - Girls Bathroom Sink Left | 1030 | LEAD | 8.7 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47601 | 8/5/2016 | 100-04A - Girls Bathroom Sink Right | 1030 | LEAD | 9.3 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47602 | 8/5/2016 | 100-05A - Boys Bathroom Sink Left | 1030 | LEAD | 7.7 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47603 | 8/5/2016 | 100-06A - Boys Bathroom Sink Right | 1030 | LEAD | 2.5 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47604 | 8/5/2016 | 100-07A - Science Room - Sink | 1030 | LEAD | 4.8 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47605 | 8/5/2016 | 100-08A - Science Room - Sink | 1030 | LEAD | 7.5 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47606 | 8/5/2016 | 100-09A - Science Room - Sink | 1030 | LEAD | 5.7 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47607 | 8/5/2016 | 100-10A - Science Room - Sink | 1030 | LEAD | 6.0 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47608 | 8/5/2016 | 100-11A - Science Room - Sink | 1030 | LEAD | 4.7 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47609 | 8/5/2016 | 100-12A - Science Room - Sink | 1030 | LEAD | 5.0 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47610 | 8/5/2016 | 100-13A - Science Room - Eye Wash | 1030 | LEAD | 1.5 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47611 | 8/5/2016 | 100-14A - Science Room Left - Sink | 1030 | LEAD | 20.6 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47612 | 8/5/2016 | 100-15A - Science Room Left - Eye Wash | 1030 | LEAD | 4.9 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_47613 | 8/5/2016 | 100-16A - Science Room Left - Sink | 1030 | LEAD | 16.4 | 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

16-19596

47598 - 47614



Project #: 262545
School Name (#): 100 - Library/Science building

Sampled By: Ron Landolt
Date of Flush: 8/14/16
Date of Sampling: 8/16/16

| Sample # | Sample Location | Flush Time | Sample Time | Standing Time | Analysis - Pb by EPA 200.8 (250 mL Bottle) | Laboratory Sample ID | |
|--|--------------------------------|------------------------|---|---|---|----------------------|---|
| 100-01A | Library - Sink | 14:10 | 0751 | | X | | |
| 1-01B | Library - drinking fountain | 14:10 | 0751 | | X | | |
| 02A | Library - drinking fountain | 14:10 | 0752 | | X | | |
| 02B | Library - drinking fountain | 14:10 | 0751 | | X | | |
| 03A | Girl's bathroom - sink (left) | 14:12 | 0753 | | X | | |
| 03B | Girl's bathroom - sink (left) | 14:12 | 0754 | | X | | |
| 04A | Girl's bathroom - sink (right) | 14:12 | 0753 | | X | | |
| 04B | Girl's bathroom - sink (right) | 14:12 | 0754 | | X | | |
| 05A | Boy's bathroom - sink (left) | 14:34 | 0755 | | X | | |
| 05B | Boy's bathroom - sink (left) | 14:34 | 0756 | | X | | |
| 06A | Boy's bathroom - sink (right) | 14:34 | 0755 | | X | | |
| 06B | Boy's bathroom - sink (right) | 14:34 | 0756 | | X | | |
| 07A | Science Room - sink | 14:14 | 0758 | | X | | |
| 07B | Science Room - sink | 14:14 | 0759 | | X | | |
| 08A | Science Room - sink | 14:15 | 0758 | | X | | |
| 08B | Science Room - sink | 14:15 | 0759 | | X | | |
| 09A | Science Room Sink | 14:16 | 0758 | | X | | |
| 09B | Science Room Sink | 14:16 | 0759 | | X | | |
| 10A | Science Room - Sink | 14:17 | 0758 | | X | | |
| 10B | Science Room - Sink | 14:17 | 0759 | | X | | |
| 11A | Science Room - Sink | 14:18 | 0758 | | X | | |
| 11B | Science Room - Sink | 14:18 | 0759 | | X | | |
| 12A | Science Room - Sink | 14:19 | 0758 | | X | | |
| 12B | Science Room - Sink | 14:19 | 0759 | | X | | |
| Relinquished by: (Signature) <i>[Signature]</i> | | Date: 8/15/16 | Received by: (Signature) <i>[Signature]</i> | Date: 8/16/16 | Relinquished by: (Signature) <i>[Signature]</i> | Date: 8/16/16 | Received by: (Signature) <i>[Signature]</i> |
| (Printed) Ron Landolt | | Time: 14:30 | (Printed) Frank Prosser | Time: 17:00 | (Printed) DAN NGUYEN | Time: 17:00 | (Printed) |
| Remarks: Preserved (Nitric Acid) or Unpreserved | | Turnaround Time: 5-day | | Condition of Samples: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | No | |
| Please hold all B samples and invoice TRC for Analysis | | Due 8/12/16 | | Accepted 8/16/16 | | DN | |



Burlington, WA Corporate Laboratory (a)
 1620 S Walnut St - Burlington, WA 98233 - 800.755.9255 + 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 - 541.753.4945
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: 16-28835
Project: 262545-Phase 2 Falls City
 S.D.-Library/Science Bld

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_70426 | 11/18/2016 | 100-14C - Science Room Loft - Left Sink | 1030 | LEAD | 47 | ppb | 15 | 1 | 200.8 | 4072 | |
| 16_70427 | 11/18/2016 | 100-16C - Science Room Loft - Left Side of Right Sinks | 1030 | LEAD | 18 | 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. - Library/Science Building

Sampled By: Ron Landolt
Date of Flush: 11/17/16
Date of Sampling: 11/18/16



| Sample # | Sample Location | Flush Time | Sample Time | Standing Time | Analysis - Pb (250 mL Bottle) | Laboratory Sample ID |
|--|--|------------|-------------|---------------|----------------------------------|-------------------------|
| 100-14C | Science Room Loft - Left Sink | ~ 17:00 | 7:41 | | (Pb) - Lead | |
| 100-14D | " " | | 7:42 | | (Pb) - Lead | |
| 100-16C | Science Room Loft - Left Side of Right Sinks | ~ 17:00 | 7:42 | | (Pb) - Lead | |
| 100-16D | " " | | 7:43 | | (Pb) - Lead | |
| 16-28835 70426 - 70427 | | | | | | |
| Relinquished by: (Signature) _____ Date: <u>11/16/16</u> Received by: (Signature) <u>[Signature]</u> Date: <u>11-21-16</u> Received by: (Signature) <u>[Signature]</u> (Printed) <u>Ron Landolt</u> Time: <u>12:00</u> (Printed) <u>Theresa Spear</u> Time: <u>1400</u> Remarks: Preserved (Nitric Acid) or Unpreserved <u>Turnaround Time: Normal or Rush</u> Please hold D sample at laboratory pending C sample analysis | | | | | | |

Acidified 11/18/16 @ 11:30
CPF

Turnaround party Ron Landolt
rlandolt@falls-city.org

APS
1300



Burlington, WA Corporate Laboratory (a)
 1520 S Walnut St - Burlington, WA 98233 - 800.735.9295 - 360 / 57 1400
Bellingham, WA Microbiology (b)
 805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360 / 15 1212

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 9150 SW Pioneer Ct Ste W - Wilsonville, OR 97070 - 503.682.7802
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 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

LEAD & COPPER RULE REPORT

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

Reference Number: 17-01352
Project: 262545- Falls City SD -
 Library/Science, Phase 3

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

Analyst: bj
Date Received: 1/20/2017
Report Date: 1/24/2017
Approved By: anp
Authorized by:


 Colin P. O'Dwyer
 Chemist/Microbiologist

| Lab Number | Date Collected | Site / Location | EPA # | Analyte Name | Result | Units | AL | RL | METHOD | Lab | Comments |
|------------|----------------|--|-------|--------------|--------|-------|----|----|--------|------|----------|
| 17_03147 | 1/20/2017 | 100-14E - Science Room Loft - Left Sink | 1030 | LEAD | 3 | ppb | 15 | 1 | 200.8 | 4072 | |
| 17_03148 | 1/20/2017 | 100-16E - Science Room Loft - Left Side of Right Sinks | 1030 | LEAD | 1 | ppb | 15 | 1 | 200.8 | 4072 | |
| | | | | | | | | | | | |

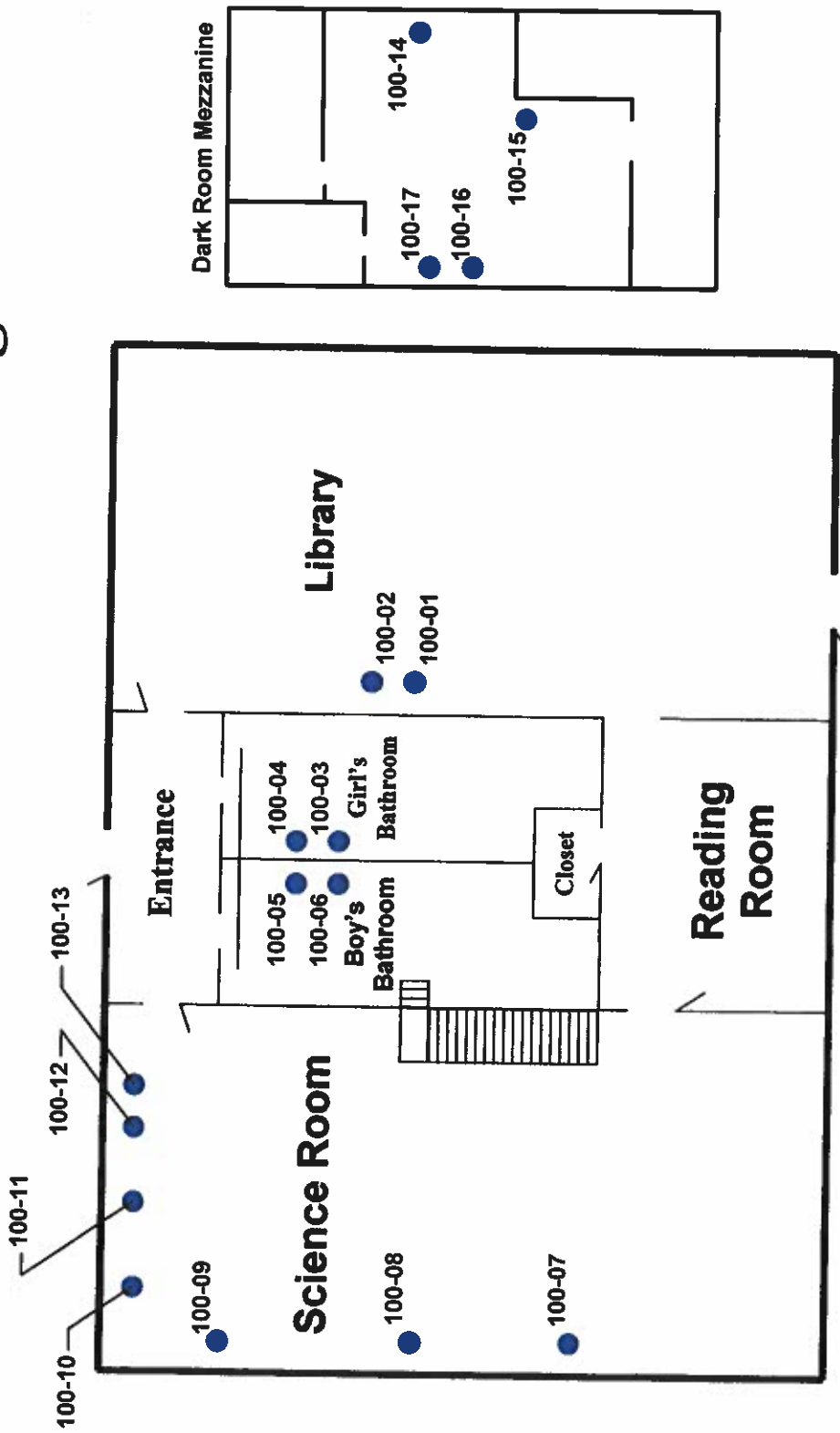
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 ND (Not Detected): indicates that the compound was not detected above the Reporting Level (RL).

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.

Appendix B – Sample Location Map(s)

Library/Science 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: 1.1

Date: 2/28/17

Checked by: RL



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