

## *Limited Lead in Drinking Water Assessment*

### **Longview Public Schools Longview, Washington Kessler Elementary School**



Assessment Date(s): February 18, 2022

Report Date: March 17, 2022

Prepared for: Jason Reetz, Facilities Manager  
Longview Public Schools

Facility Owner/Operator: Longview Public Schools



Prepared By:  
*Sterling Technologies, LLC*  
317 NE 144th Street  
Vancouver, WA 98685



# Limited Lead in Drinking Water Assessment

## Introduction

Sterling Technologies (Sterling) has recently completed a limited lead in drinking water screening of the Kessler Elementary School, Longview School District, located at 1902 East Kessler Boulevard, Longview, Washington. The purpose of the investigation was to identify the levels of lead in the various sources of drinking water throughout the school. Sample locations included drinking water fountains, classroom sink water faucets, restroom sink water faucets, and kitchen sink water faucets.

## Background

The school district may be considered a water supply system from a water distribution perspective and may need to comply with the federal guidelines for water monitoring as specified in the Lead & Copper Rule (*Federal Register: June 30, 1994, Part 5. 40 CFR Parts 141 and 142; Drinking Water; Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for Lead and Copper*) and may be compelled to monitor the drinking water within the district on an ongoing basis after an effective treatment approach is implemented (56FR 26460 – Lead Copper Rule). Within 30 days of learning the lead level results, all water systems (schools in this case) must provide individual lead tap results to the people who receive water from the sites that were sampled, *regardless of whether the results exceed the lead Action Level*, as required by 40 CFR 141.85(d).

## Results Summary

**Water samples were collected from 54 drinking water sources at the school.**

**52 samples were found to NOT contain elevated lead levels (below 15 ppb).**

**2 samples were found to contain elevated lead levels (above 15 ppb).**

## Sampling

The samples were collected by EPA accredited inspectors provided by Sterling. Samples included representative amounts of water. The lead in drinking water samples were analyzed by Apex Laboratories by EPA Method 200.8. The sampling guidelines followed were based on the federal school standard with emphasis on the Lead Copper Rule for sampling sites chosen.

*Report continued on the next page...*



## Assessment Results

### Analytical Results: Lead in Drinking Water

Item	Sample ID.	Location	Result (µ/L)
1	KES-1-F	Classroom #1, Sink Faucet	3.87
2	KES-1-DW	Classroom #1, Drinking Fountain	1.90
3	KES-2-F	Classroom #2, Sink Faucet	0.438
4	KES-1-DW	Classroom #2, Drinking Fountain	1.45
5	KES-7-F	Classroom #7, Sink Faucet	4.97
6	KES-13-F	Classroom #13, Sink Faucet	3.32
7	KES-19-F	Classroom #19, Sink Faucet	1.20
8	KES-7-DW	Classroom #7, Water Fountain	4.83
9	KES-N-F	Nurses Office, Sink Faucet	ND
10	KES-N-RR-F	Nurses Office, Restroom, Sink Faucet	0.204
11	KES-ST-F	Staff Lounge, Sink Faucet	ND
12	KES-ST-RR-F	Staff Lounge, Restroom, Sink Faucet	0.678
13	KES-O-RR-F	Main Office, Restroom, Sink Faucet	1.37
14	KES-G-F	Gym, Drinking Fountain	7.48
15	KES-G-B-F	Gym, Boys Restroom, Sink Faucet	1.03
16	KES-G-G-F	Gym, Girls Restroom, Sink Faucet	0.793
17	KES-AB-B-F	Auditorium Basement, Boys Restroom, Sink Faucet	2.02
18	KES-AB-G-F	Auditorium Basement, Girls Restroom, Sink Faucet	2.71
19	KES-AB-F-R	Auditorium Basement, Sink Faucet, Right	27.1
20	KES-AB-F-L	Auditorium Basement, Sink Faucet, Left	10.1
21	KES-AB-DW	Auditorium Basement, Drinking Fountain	14.5
22	KES-H-4-F-R	Hall, by Classroom #4, Drinking Fountain, Right	0.450
23	KES-H-5-F-R	Hall, by Classroom #5, Drinking Fountain, Right	0.436
24	KES-H-5-F-L	Hall, by Classroom #5, Drinking Fountain, Left	2.14
25	KES-H-5-DW	Hall, by Classroom #5, Drinking Fountain	6.39
26	KES-H-9-DWL	Hall, by Classroom #9, Drinking Fountain, Left	0.866
27	KES-H-9-DWR	Hall, by Classroom #9, Drinking Fountain, Right	0.473
28	KES-H-9-F-L	Hall, by Classroom #9, Sink Faucet, Left	1.61
29	KES-H-9-B-F	Hall, by Classroom #9, Boys Restroom, Sink Faucet	0.378
30	KES-H-9-G-F	Hall, by Classroom #9, Girls Restroom, Sink Faucet	3.46
31	KES-H-12-F-R	Hall, by Classroom #12, Sink Faucet, Right	1.62
32	KES-H-12-F-L	Hall, by Classroom #12, Sink Faucet, Left	2.49

ND = Non-Detect

Analytical Results continued on the next page...



### Analytical Results: Lead in Drinking Water (continued)

Item	Sample ID.	Location	Result (µ/L)
33	KES-H-12-DW	Hall, by Classroom #12, Drinking Fountain	4.67
34	KES-H-15-F-R	Hall, by Classroom #15, Sink Faucet, Right	2.79
35	KES-H-15-F-L	Hall, by Classroom #15, Sink Faucet, Left	2.79
36	KES-H-15-DW	Hall, by Classroom #15, Drinking Fountain	2.72
37	KES-H-15-B-F	Hall, by Classroom #15, Boys Restroom, Sink Faucet	0.528
38	KES-H-15-G-F	Hall, by Classroom #15, Girls Restroom, Sink Faucet	1.06
39	KES-H-18-F-R	Hall, by Classroom #18, Sink Faucet, Right	0.754
40	KES-H-18-F-L	Hall, by Classroom #18, Sink Faucet, Left	1.32
41	KES-H-18-DW	Hall, by Classroom #18, Drinking Fountain	1.31
42	KES-H-F-R-20	Hall, by Classroom #20, Sink Faucet, Right	2.64
43	KES-H-F-L-20	Hall, by Classroom #20, Sink Faucet, Left	1.40
44	KES-DW-20	Hall, by Classroom #20, Drinking Fountain	0.805
45	KES-H-22-F1	Hall, by Classroom #22, Sink Faucet, #1	0.323
46	KES-H-22-F2	Hall, by Classroom #22, Sink Faucet, #2	0.624
47	KES-H-22-DW-1	Hall, by Classroom #22, Drinking Fountain, #1	0.512
48	KES-H-22-DW-2	Hall, by Classroom #22, Drinking Fountain, #2	1.03
49	KES-H-22-B-F	Hall, by Classroom #22, Boys Restroom, Sink Faucet	0.839
50	KES-H-22-G-F	Hall, by Classroom #22, Girls Restroom, Sink Faucet	0.731
51	KES-H-C-F-R	Hall, Center, Sink Faucet, Right	0.733
52	KES-H-C-F-L	Hall, Center, Sink Faucet, Left	0.983
53	KES-H-C-DW-1	Hall – Center – Drinking Fountain #1	0.794
54	KES-H-C-DW-2	Hall – Center – Drinking Fountain #2	1.43

ND = Non-Detect

As highlighted ( ) in the above table, the lab results for 2 of the 54 drinking water samples collected were found to be at or above the 15 ppb action level for lead in drinking water. The remaining 52 drinking water samples were found to be below the 15 ppb action level.

Note: Drinking water sources with lead levels above an approximate background level of 2.0 ppb have also been highlighted ( ).

Report continued on next page...



## Conclusions and Recommendations

Two locations were noted to have elevated lead in drinking water; the auditorium basement, sink faucet, right, and the auditorium basement, drinking fountain. No elevated lead in drinking water levels were noted in the other locations sampled, and the results were below lead in drinking water EPA standard under the Safe Drinking Water Act of 15 parts per billion. Fourteen drinking water locations did have residual lead levels above a background lead level: 2.0 ppb.

It is our recommendation that the Longview School District consider the installation of a combination drinking fountain and motion sensor water filling system using an ANSI 53 certified filter by the National Science Foundation (NSF). The Elkay EZH20 is a popular fixture and is advertised online for about \$1,500 per unit. Note that fixtures with refrigeration jump in price to around \$4,000. These systems have proven effective for the removal of lead particulates with our other school district clients.

Given the age of the school plumbing systems (school built in 1976) and the slight residual levels of lead noted in the drinking water sources throughout, Sterling recommends that the district consider replacement of all the water fountains in the Northlake Elementary School with fixtures that include a suitable lead filtration system. As the existing drinking water fountains do not have an electrical source, a mechanical system would be preferable. With the mechanical fixtures, required filter changes are noted on a counter that is based on the volume of water passed through the filter.

The district might also consider instituting an administrative policy that only those drinking water sources that include a lead filtration system be used for drinking water; discourage use of unfiltered water sources (e.g., classroom sink water faucets).

## Limitations

This report is for the exclusive use of the client, applies only to the specific subject property detailed above, and shall not be relied upon by any other party without the prior written consent of the undersigned.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted practices in this area at the time this report was prepared. No other hazardous materials/wastes were investigated. No other conditions, expressed or implied, should be understood.

## Recordkeeping

Additional copies of this report are available from Sterling Technologies upon request. Unless otherwise requested, samples will be retained for a period of 30 days, after which they will be discarded. If you have any questions about these results or would like additional information, please feel free to call our office.

**Sterling Technologies thanks you for this opportunity to be of service.**

Sincerely,



Thomas Nadermann, M.S., Principal  
AHERA Inspector #155212, Lead Risk Assessor #0493



## Appendix A

---

### Inspector's Certification

DRAFT



**STATE OF WASHINGTON**

**Department of Commerce**  
Lead-Based Paint Abatement Program

**Thomas Heinrich Nadermann**

*Has fulfilled the certification requirements of  
WAC 365-230  
and has been certified to conduct lead-based  
paint activities as a  
**Risk Assessor***

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
0493	02/08/2021	10/22/2023

**STATE OF WASHINGTON**

**Department of Commerce**  
Lead-Based Paint Abatement Program

**Edwin L Wilson**

*Has fulfilled the certification requirements of  
WAC 365-230  
and has been certified to conduct lead-based  
paint activities as a  
**Risk Assessor***

<u>Certification #</u>	<u>Issuance Date</u>	<u>Expiration Date</u>
8040	08/26/2021	07/22/2024



## Appendix B

---

Field Data

Laboratory Results

DRAFT





**A2B0860****Apex Labs Cooler Receipt Summary Report****Sterling Technologies LLC (Thomas Nadermann)**

Project: Drinking Water - 2022

Project #: Kessler Elementary School

Received: 02/23/22 11:22

A2B0860

Apex PM: Darrell Auvil (DAuvil@apex-labs.com) (Phone: 503-718-2323)

One Cooler received at 11.4 deg C: (Temperature OK)

**Samples:**

<b>A2B0860-01</b>	<b>Drinking Water</b>	<b><u>KES-1-F</u></b>	<b>02/18/22 00:00</b>
-------------------	-----------------------	-----------------------	-----------------------

Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022

<b>A2B0860-02</b>	<b>Drinking Water</b>	<b><u>KES-1-DW</u></b>	<b>02/18/22 00:00</b>
-------------------	-----------------------	------------------------	-----------------------

Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022

<b>A2B0860-03</b>	<b>Drinking Water</b>	<b><u>KES-2-F</u></b>	<b>02/18/22 00:00</b>
-------------------	-----------------------	-----------------------	-----------------------

Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022

<b>A2B0860-04</b>	<b>Drinking Water</b>	<b><u>KES-2-DW</u></b>	<b>02/18/22 00:00</b>
-------------------	-----------------------	------------------------	-----------------------

Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022

<b>A2B0860-05</b>	<b>Drinking Water</b>	<b><u>KES-7-F</u></b>	<b>02/18/22 00:00</b>
-------------------	-----------------------	-----------------------	-----------------------

Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022

<b>A2B0860-06</b>	<b>Drinking Water</b>	<b><u>KES-13-F</u></b>	<b>02/18/22 00:00</b>
-------------------	-----------------------	------------------------	-----------------------

Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022

<b>A2B0860-07</b>	<b>Drinking Water</b>	<b><u>KES-19-F</u></b>	<b>02/18/22 00:00</b>
-------------------	-----------------------	------------------------	-----------------------

Analysis	TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022

## Apex Labs Cooler Receipt Summary Report

Sterling Technologies LLC (Thomas Nadermann)						
Project: Drinking Water - 2022						
Project #: Kessler Elementary School						
Received: 02/23/22 11:22						A2B0860
A2B0860-08	Drinking Water	KES-7-DW				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-09	Drinking Water	KES-N-F				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-10	Drinking Water	KES-N-RR-F				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-11	Drinking Water	KES-ST-F				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-12	Drinking Water	KES-ST-RR-F				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-13	Drinking Water	KES-O-RR-F				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-14	Drinking Water	KES-G-F				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-15	Drinking Water	KES-G-B-F				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-16	Drinking Water	KES-G-G-F				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-17	Drinking Water	KES-AB-B-F				02/18/22 00:00
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022

## Apex Labs Cooler Receipt Summary Report

### Sterling Technologies LLC (Thomas Nadermann)

**Project:** Drinking Water - 2022

**Project #:** Kessler Elementary School

**Received:** 02/23/22 11:22

A2B0860

A2B0860-18		Drinking Water	KES-AB-G-F		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-19		Drinking Water	KES-AB-F-R		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-20		Drinking Water	KES-AB-F-L		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-21		Drinking Water	KES-AB-DW		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-22		Drinking Water	KES-H-4-F-R		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-23		Drinking Water	KES-H-5-F-R		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-24		Drinking Water	KES-H-5-F-L		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-25		Drinking Water	KES-H-5-DW		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-26		Drinking Water	KES-H-9-DWL		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022
A2B0860-27		Drinking Water	KES-H-9-DWR		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022

## Apex Labs Cooler Receipt Summary Report

### Sterling Technologies LLC (Thomas Nadermann)

**Project:** Drinking Water - 2022

**Project #:** Kessler Elementary School

**Received:** 02/23/22 11:22

A2B0860

<b>A2B0860-28</b>	<b>Drinking Water</b>	<b><u>KES-H-9-F-L</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
<b>A2B0860-29</b>	<b>Drinking Water</b>	<b><u>KES-H-9-B-F</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
<b>A2B0860-30</b>	<b>Drinking Water</b>	<b><u>KES-H-9-G-F</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
<b>A2B0860-31</b>	<b>Drinking Water</b>	<b><u>KES-H-12-F-R</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
<b>A2B0860-32</b>	<b>Drinking Water</b>	<b><u>KES-H-12-F-L</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
<b>A2B0860-33</b>	<b>Drinking Water</b>	<b><u>KES-H-12-DW</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
<b>A2B0860-34</b>	<b>Drinking Water</b>	<b><u>KES-H-15-F-R</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
<b>A2B0860-35</b>	<b>Drinking Water</b>	<b><u>KES-H-15-F-L</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
<b>A2B0860-36</b>	<b>Drinking Water</b>	<b><u>KES-H-15-DW</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
<b>A2B0860-37</b>	<b>Drinking Water</b>	<b><u>KES-H-15-B-F</u></b>	<b>02/18/22 00:00</b>			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
<b>Pb (Lead) - 200.8 - Total</b>	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	

## Apex Labs Cooler Receipt Summary Report

### Sterling Technologies LLC (Thomas Nadermann)

**Project:** Drinking Water - 2022

**Project #:** Kessler Elementary School

**Received:** 02/23/22 11:22

A2B0860

A2B0860-38		Drinking Water		KES-H-15-G-F		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-39		Drinking Water		KES-H-18-F-R		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-40		Drinking Water		KES-H-18-F-L		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-41		Drinking Water		KES-H-18-DW		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-42		Drinking Water		KES-H-F-R-20		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-43		Drinking Water		KES-H-F-L-20		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-44		Drinking Water		KES-H-DW-20		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-45		Drinking Water		KES-H-22-F1		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-46		Drinking Water		KES-H-22-F2		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-47		Drinking Water		KES-H-22-DW-1		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	

## Apex Labs Cooler Receipt Summary Report

### Sterling Technologies LLC (Thomas Nadermann)

**Project:** Drinking Water - 2022

**Project #:** Kessler Elementary School

**Received:** 02/23/22 11:22

A2B0860

A2B0860-48		Drinking Water		KES-22-DW-2		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-49		Drinking Water		KES-H-22-B-F		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-50		Drinking Water		KES-H-22-G-F		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-51		Drinking Water		KES-H-C-F-R		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-52		Drinking Water		KES-H-C-F-R		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-53		Drinking Water		KES-H-C-F-L		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	
A2B0860-54		Drinking Water		KES-H-C-DW-1		02/18/22 00:00	
Analysis		TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total		10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	

### Apex Labs Cooler Receipt Summary Report

A2B0860-55	Drinking Water	<u>KES-H-C-DW-2</u>	02/18/22 00:00			
Analysis	TAT	Due	Hold1	Hold1 Type	Expires	
Pb (Lead) - 200.8 - Total	10	3/9/2022	180	Sampled to Analyzed (Day)	8/17/2022	

# Chain of Custody

## Field Sampling Log



**Sterling Technologies, LLC**  
 Providing technical consulting support to the  
 environmental and manufacturing industries  
 317 NE 144<sup>th</sup> Street Vancouver, WA 98685  
 360.576.6331

Project Name:

Site Location:

Date:

Project Contact:

Project Name:

Site Location:

Date:

Project Contact:

Test Drinking Water for Lead  
 Kessler Elementary School  
 Feb 18, 2022  
 T. Nadermann

Turnaround Time:

Normal: ☒Other: ☐

Pg 1 of 5

Sample ID	Location/Description	Analysis	Comments
KES-1-F	Glass - 1 - Sink Faucet	Lead	EPA Method 200.8
" - 1-DW	" - 1 - Water Fountain	↓	
KES-2-F	" - 2 - Sink Faucet	↓	
KES-2-DW	" - 2 - Water Fountain	↓	
KES-7-F	" - 7 - Sink Faucet	↓	
<del>KES-7-DW</del>	" - 7 - <del>Sink Faucet</del>	—	—
KES-13-F	" - 13 - Sink Faucet	Lead	EPA Method 200.8
" - 19-F	" - 19 - "	↓	
KES-7-DW	" - 7 - Water Fountain	↓	
KES-N-F	Nurses Office - Sink Faucet	↓	
KES-N-RR-F	" - Rest Room - Sink Faucet	↓	
KES-ST-F	Staff Lounge - Sink Faucet	↓	
" - ST-RR-F	" - Rest Room - Sink Faucet	↓	

Sampled by:

T. Nadermann

Date:

Feb 18, 2022

1177  
 M. Nadermann / M. Nadermann  
 2-23-22





# Chain of Custody

## Field Sampling Log



**Sterling Technologies, LLC**

Providing technical consulting support to the  
environmental and manufacturing industries

317 NE 144<sup>th</sup> Street Vancouver, WA 98685  
360.576.6331

Project Name:

Site Location:

Date:

Project Contact:

Test Drinking Water for Lead  
Kessler Elementary School  
Feb 18, 2022  
T. Nadermann

Pg 3 of 5

Turnaround Time:

Normal: ☒

Other: ☐

Sample ID	Location/Description	Analysis	Comments
KES-H-5-DW	Hall - 5 - Water Fountain	Lead	EPA Method 2008
" - H-9-DWL	" - " - 9 - Water Fountain - Left		
" - H-9-DWR	" - " - 9 - " - Right		
" - H-9-F-L	" - " - 9 - Sink Faucet - Left		
" - H-9-B-F	" - " - 9 - Boys Restroom Sink Faucet		
" - H-9-G-F	" - " - 9 - Girls Restroom - "		
" - H-12-F-R	" - " - 12 - Sink Faucet - Right		
" - H-12-F-L	" - " - 12 - " - Left		
" - H-12-DW	" - " - 12 - Water Fountain		
" - H-15-F-R	" - " - 15 - Sink Faucet - Right		
" - H-15-F-L	" - " - 15 - " - Left		
" - H-15-DW	" - " - 15 - Water Fountain		
" - H-15-B-F	" - " - 15 - Boys Restroom Sink Faucet		

Sampled by:

T. Nadermann

Date:

Feb 18, 2022

1172

M. K. Nadermann

2-23-22

**Sterling Technologies, LLC**  
Providing technical consulting support to the  
environmental and manufacturing industries

317 NE 144<sup>th</sup> Street Vancouver, WA 98685  
360.376.6331

**Project Contact:**

Test Drinking Water for Lead  
Kessler Elementary School  
Feb 18, 2022  
T. Nadermann

Other:

Sample ID	Location/Description	Analysis	Comments
KES-H-15-G-F	Hall - <sup>Girls</sup> RestRm - Sink	Lead	EPA Method 200.8
" - H-18-F-R	" - " -18- Sink - Faucet		
" - H-18-F-L	" - " -18- " - Left		
" - H-18-DW	" - " -18- Water Fountain		
" - H-F-R-20	" - " -20- Sink - Faucet - Right		
" - H-F-L-20	" - " -20- " - Left		
" - H-DW-20	" - " -20- Water Fountain		
" - H-22-F1	" - " -22- Sink - Faucet - #1		
" - H-22-F2	" - " -22- " - #2		
" - H-22-DW-1	" - " -22- Water Fountain - #1		
" - H-22-DW-2	" - " -22- " - #2		
" - H-22-B-F	" - " -22- Boys RestRm - Sink - Faucet		
" - H-22-G-F	" - " -22- Girls RestRm - " - "		

T. Niedermann

Date:

Feb 18 2022

W. K. K. K.	172	7-23-22
W. K. K. K.	172	7-23-22





# Apex Labs Cooler Receipt Summary Report

## APEX LABS COOLER RECEIPT FORM

Client: Starling Technologies LLC Element WO#: A2 B0860

Project/Project #: Test Drinking Water for Lead-Kessler Elementary School

### Delivery Info:

Date/time received: 2-23-22 @ 11:22 By: MM

Delivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐

Cooler Inspection Date/time inspected: 2-23-22 @ 1250 By: MM

Chain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒

Signed/dated by client? Yes ☒ No ☐

Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>11.4</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>N/A</u>						
Condition:	<u>good</u>						

Cooler out of temp? (Y/N) Possible reason why: Drinking Waters/Lead Testing

Green dots applied to out of temperature samples? Yes ☒ No ☐

Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: Date/time inspected: 2/25/22 @ 15:12 By: ZAM

All samples intact? Yes ☒ No ☐ Comments: ZAM 2/25/22

Bottle labels/COCs agree? Yes ☐ No ☒ Comments: Col reads KES-BF & KES-

Container reads B-F. Missing Sample KES-H.C.F.L.

COC/container discrepancies form initiated? Yes ☐ No ☒

Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:

Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐

Comments:

Additional information:

Labeled by: VKM 2/23/22 Witness: B Cooler Inspected by: ZAM



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Monday, March 14, 2022

Thomas Nadermann  
Sterling Technologies LLC  
317 NE 144th St  
Vancouver, WA 98685

RE: A2B0860 - Drinking Water - 2022 - Kessler Elementary School

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2B0860, which was received by the laboratory on 2/23/2022 at 11:22:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [DAuvil@apex-labs.com](mailto:DAuvil@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

---

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	11.4 degC
-----------	-----------

---

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

---



Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

---

Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**Sterling Technologies LLC**317 NE 144th St  
Vancouver, WA 98685Project: **Drinking Water - 2022**Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann**Report ID:**

A2B0860 - 03 14 22 1105

**ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KES-1-F	A2B0860-01	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-1-DW	A2B0860-02	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-2-F	A2B0860-03	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-2-DW	A2B0860-04	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-7-F	A2B0860-05	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-13-F	A2B0860-06	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-19-F	A2B0860-07	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-7-DW	A2B0860-08	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-N-F	A2B0860-09	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-N-RR-F	A2B0860-10	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-ST-F	A2B0860-11	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-ST-RR-F	A2B0860-12	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-O-RR-F	A2B0860-13	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-G-F	A2B0860-14	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-G-B-F	A2B0860-15	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-G-G-F	A2B0860-16	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-AB-B-F	A2B0860-17	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-AB-G-F	A2B0860-18	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-AB-F-R	A2B0860-19	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-AB-F-L	A2B0860-20	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-AB-DW	A2B0860-21	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-4-F-R	A2B0860-22	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-5-F-R	A2B0860-23	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-5-F-L	A2B0860-24	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-5-DW	A2B0860-25	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-9-DWL	A2B0860-26	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-9-DWR	A2B0860-27	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-9-F-L	A2B0860-28	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-9-B-F	A2B0860-29	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-9-G-F	A2B0860-30	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-12-F-R	A2B0860-31	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-12-F-L	A2B0860-32	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-12-DW	A2B0860-33	Drinking Water	02/18/22 00:00	02/23/22 11:22

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**Sterling Technologies LLC**317 NE 144th St  
Vancouver, WA 98685Project: **Drinking Water - 2022**Project Number: **Kessler Elementary School**  
Project Manager: **Thomas Nadermann****Report ID:****A2B0860 - 03 14 22 1105****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KES-H-15-F-R	A2B0860-34	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-15-F-L	A2B0860-35	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-15-DW	A2B0860-36	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-15-B-F	A2B0860-37	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-15-G-F	A2B0860-38	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-18-F-R	A2B0860-39	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-18-F-L	A2B0860-40	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-18-DW	A2B0860-41	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-F-R-20	A2B0860-42	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-F-L-20	A2B0860-43	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-DW-20	A2B0860-44	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-22-F1	A2B0860-45	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-22-F2	A2B0860-46	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-22-DW-1	A2B0860-47	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-22-DW-2	A2B0860-48	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-22-B-F	A2B0860-49	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-22-G-F	A2B0860-50	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-C-F-R	A2B0860-51	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-C-F-L	A2B0860-53	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-C-DW-1	A2B0860-54	Drinking Water	02/18/22 00:00	02/23/22 11:22
KES-H-C-DW-2	A2B0860-55	Drinking Water	02/18/22 00:00	02/23/22 11:22

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager





## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## ANALYTICAL SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>KES-1-F (A2B0860-01)</b> Matrix: Drinking Water								
Batch: 22C0020								
Lead	3.87	---	0.200	ug/L	1	03/03/22 20:06	EPA 200.8	
<b>KES-1-DW (A2B0860-02)</b> Matrix: Drinking Water								
Batch: 22C0020								
Lead	1.90	---	0.200	ug/L	1	03/03/22 20:10	EPA 200.8	
<b>KES-2-F (A2B0860-03)</b> Matrix: Drinking Water								
Batch: 22C0020								
Lead	0.438	---	0.200	ug/L	1	03/03/22 20:14	EPA 200.8	
<b>KES-2-DW (A2B0860-04)</b> Matrix: Drinking Water								
Batch: 22C0020								
Lead	1.45	---	0.200	ug/L	1	03/03/22 20:29	EPA 200.8	
<b>KES-7-F (A2B0860-05)</b> Matrix: Drinking Water								
Batch: 22C0275								
Lead	4.97	---	0.200	ug/L	1	03/08/22 00:39	EPA 200.8	DW-D
<b>KES-13-F (A2B0860-06)</b> Matrix: Drinking Water								
Batch: 22C0020								
Lead	3.32	---	0.200	ug/L	1	03/03/22 20:33	EPA 200.8	
<b>KES-19-F (A2B0860-07)</b> Matrix: Drinking Water								
Batch: 22C0020								
Lead	1.20	---	0.200	ug/L	1	03/03/22 20:37	EPA 200.8	
<b>KES-7-DW (A2B0860-08)</b> Matrix: Drinking Water								
Batch: 22C0020								
Lead	4.83	---	0.200	ug/L	1	03/03/22 20:41	EPA 200.8	
<b>KES-N-F (A2B0860-09)</b> Matrix: Drinking Water								
Batch: 22C0086								
Lead	ND	---	0.200	ug/L	1	03/03/22 20:56	EPA 200.8	
<b>KES-N-RR-F (A2B0860-10)</b> Matrix: Drinking Water								
Batch: 22C0086								

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## ANALYTICAL SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
KES-N-RR-F (A2B0860-10)				Matrix: Drinking Water				
Lead	0.204	---	0.200	ug/L	1	03/03/22 21:15	EPA 200.8	
KES-ST-F (A2B0860-11)				Matrix: Drinking Water				
Batch: 22C0086								
Lead	ND	---	0.200	ug/L	1	03/03/22 21:18	EPA 200.8	
KES-ST-RR-F (A2B0860-12)				Matrix: Drinking Water				
Batch: 22C0086								
Lead	0.678	---	0.200	ug/L	1	03/03/22 21:22	EPA 200.8	
KES-O-RR-F (A2B0860-13)				Matrix: Drinking Water				
Batch: 22C0086								
Lead	1.37	---	0.200	ug/L	1	03/03/22 21:25	EPA 200.8	
KES-G-F (A2B0860-14)				Matrix: Drinking Water				
Batch: 22C0086								
Lead	7.48	---	0.200	ug/L	1	03/03/22 21:29	EPA 200.8	
KES-G-B-F (A2B0860-15)				Matrix: Drinking Water				
Batch: 22C0086								
Lead	1.03	---	0.200	ug/L	1	03/03/22 21:33	EPA 200.8	
KES-G-G-F (A2B0860-16)				Matrix: Drinking Water				
Batch: 22C0086								
Lead	0.793	---	0.200	ug/L	1	03/03/22 21:36	EPA 200.8	
KES-AB-B-F (A2B0860-17)				Matrix: Drinking Water				
Batch: 22C0086								
Lead	2.02	---	0.200	ug/L	1	03/03/22 21:40	EPA 200.8	
KES-AB-G-F (A2B0860-18)				Matrix: Drinking Water				
Batch: 22C0086								
Lead	2.71	---	0.200	ug/L	1	03/03/22 21:44	EPA 200.8	
KES-AB-F-R (A2B0860-19)				Matrix: Drinking Water				
Batch: 22C0086								

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## ANALYTICAL SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>KES-AB-F-R (A2B0860-19)</b>				<b>Matrix: Drinking Water</b>				
Lead	27.1	---	0.200	ug/L	1	03/03/22 21:48	EPA 200.8	
<b>KES-AB-F-L (A2B0860-20)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0086								
Lead	10.1	---	0.200	ug/L	1	03/03/22 22:04	EPA 200.8	
<b>KES-AB-DW (A2B0860-21)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0086								
Lead	14.5	---	0.200	ug/L	1	03/03/22 22:08	EPA 200.8	
<b>KES-H-4-F-R (A2B0860-22)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0086								
Lead	0.450	---	0.200	ug/L	1	03/03/22 22:12	EPA 200.8	
<b>KES-H-5-F-R (A2B0860-23)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0086								
Lead	0.436	---	0.200	ug/L	1	03/03/22 22:16	EPA 200.8	
<b>KES-H-5-F-L (A2B0860-24)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0086								
Lead	2.14	---	0.200	ug/L	1	03/03/22 22:19	EPA 200.8	
<b>KES-H-5-DW (A2B0860-25)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0086								
Lead	6.39	---	0.200	ug/L	1	03/03/22 22:23	EPA 200.8	
<b>KES-H-9-DWL (A2B0860-26)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0086								
Lead	0.866	---	0.200	ug/L	1	03/03/22 22:27	EPA 200.8	
<b>KES-H-9-DWR (A2B0860-27)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0086								
Lead	0.473	---	0.200	ug/L	1	03/03/22 22:31	EPA 200.8	
<b>KES-H-9-F-L (A2B0860-28)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0086								

Apex Laboratories

Darrell Auvil, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## ANALYTICAL SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
KES-H-9-F-L (A2B0860-28)				Matrix: Drinking Water				
Lead	1.61	---	0.200	ug/L	1	03/03/22 22:34	EPA 200.8	
KES-H-9-B-F (A2B0860-29)				Matrix: Drinking Water				
Batch: 22C0088								
Lead	0.378	---	0.200	ug/L	1	03/03/22 22:57	EPA 200.8	
KES-H-9-G-F (A2B0860-30)				Matrix: Drinking Water				
Batch: 22C0088								
Lead	3.46	---	0.200	ug/L	1	03/03/22 23:08	EPA 200.8	
KES-H-12-F-R (A2B0860-31)				Matrix: Drinking Water				
Batch: 22C0088								
Lead	1.62	---	0.200	ug/L	1	03/03/22 23:12	EPA 200.8	
KES-H-12-F-L (A2B0860-32)				Matrix: Drinking Water				
Batch: 22C0088								
Lead	2.49	---	0.200	ug/L	1	03/03/22 23:17	EPA 200.8	
KES-H-12-DW (A2B0860-33)				Matrix: Drinking Water				
Batch: 22C0088								
Lead	4.67	---	0.200	ug/L	1	03/03/22 23:21	EPA 200.8	
KES-H-15-F-R (A2B0860-34)				Matrix: Drinking Water				
Batch: 22C0088								
Lead	2.79	---	0.200	ug/L	1	03/03/22 23:25	EPA 200.8	
KES-H-15-F-L (A2B0860-35)				Matrix: Drinking Water				
Batch: 22C0088								
Lead	2.79	---	0.200	ug/L	1	03/03/22 23:37	EPA 200.8	
KES-H-15-DW (A2B0860-36)				Matrix: Drinking Water				
Batch: 22C0088								
Lead	2.72	---	0.200	ug/L	1	03/03/22 23:41	EPA 200.8	
KES-H-15-B-F (A2B0860-37)				Matrix: Drinking Water				
Batch: 22C0088								

Apex Laboratories

Darrell Auvil, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## ANALYTICAL SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>KES-H-15-B-F (A2B0860-37)</b>				<b>Matrix: Drinking Water</b>				
Lead	0.528	---	0.200	ug/L	1	03/03/22 23:45	EPA 200.8	
<b>KES-H-15-G-F (A2B0860-38)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	1.06	---	0.200	ug/L	1	03/03/22 23:48	EPA 200.8	
<b>KES-H-18-F-R (A2B0860-39)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	0.754	---	0.200	ug/L	1	03/03/22 23:52	EPA 200.8	
<b>KES-H-18-F-L (A2B0860-40)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	1.32	---	0.200	ug/L	1	03/03/22 23:55	EPA 200.8	
<b>KES-H-18-DW (A2B0860-41)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	1.13	---	0.200	ug/L	1	03/03/22 23:58	EPA 200.8	
<b>KES-H-F-R-20 (A2B0860-42)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	2.64	---	0.200	ug/L	1	03/04/22 00:02	EPA 200.8	
<b>KES-H-F-L-20 (A2B0860-43)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	1.40	---	0.200	ug/L	1	03/04/22 00:06	EPA 200.8	
<b>KES-H-DW-20 (A2B0860-44)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	0.805	---	0.200	ug/L	1	03/04/22 00:10	EPA 200.8	
<b>KES-H-22-F1 (A2B0860-45)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	0.323	---	0.200	ug/L	1	03/04/22 00:21	EPA 200.8	
<b>KES-H-22-F2 (A2B0860-46)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								

Apex Laboratories

Darrell Auvil, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## ANALYTICAL SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>KES-H-22-F2 (A2B0860-46)</b>				<b>Matrix: Drinking Water</b>				
Lead	0.624	---	0.200	ug/L	1	03/04/22 00:24	EPA 200.8	
<b>KES-H-22-DW-1 (A2B0860-47)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	0.512	---	0.200	ug/L	1	03/04/22 00:28	EPA 200.8	
<b>KES-22-DW-2 (A2B0860-48)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0088								
Lead	1.03	---	0.200	ug/L	1	03/04/22 00:31	EPA 200.8	
<b>KES-H-22-B-F (A2B0860-49)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0102								
Lead	0.839	---	0.200	ug/L	1	03/04/22 01:05	EPA 200.8	
<b>KES-H-22-G-F (A2B0860-50)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0102								
Lead	0.731	---	0.200	ug/L	1	03/04/22 01:08	EPA 200.8	
<b>KES-H-C-F-R (A2B0860-51)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0102								
Lead	0.733	---	0.200	ug/L	1	03/04/22 01:12	EPA 200.8	
<b>KES-H-C-F-L (A2B0860-53)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0102								
Lead	0.983	---	0.200	ug/L	1	03/04/22 01:15	EPA 200.8	
<b>KES-H-C-DW-1 (A2B0860-54)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0102								
Lead	0.794	---	0.200	ug/L	1	03/04/22 01:18	EPA 200.8	
<b>KES-H-C-DW-2 (A2B0860-55)</b>				<b>Matrix: Drinking Water</b>				
Batch: 22C0102								
Lead	1.43	---	0.200	ug/L	1	03/04/22 01:22	EPA 200.8	

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0020 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0020-BLK1)			Prepared: 03/01/22 10:22		Analyzed: 03/03/22 18:50							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0020-BS1)			Prepared: 03/01/22 10:22		Analyzed: 03/03/22 18:54							
EPA 200.8												
Lead	16.4	---	0.200	ug/L	1	15.0	---	109	85-115%	---	---	
Duplicate (22C0020-DUP1)			Prepared: 03/01/22 10:22		Analyzed: 03/03/22 19:02							
QC Source Sample: Non-SDG (A2B0851-37)												
Lead	0.280	---	0.201	ug/L	1	---	0.279	---	---	0.3	20%	
Matrix Spike (22C0020-MS1)			Prepared: 03/01/22 10:22		Analyzed: 03/03/22 19:06							
QC Source Sample: Non-SDG (A2B0851-37)												
EPA 200.8												
Lead	16.7	---	0.201	ug/L	1	15.0	0.279	109	70-130%	---	---	
Matrix Spike (22C0020-MS2)			Prepared: 03/01/22 10:22		Analyzed: 03/03/22 20:45							
QC Source Sample: KES-7-DW (A2B0860-08)												
EPA 200.8												
Lead	21.3	---	0.201	ug/L	1	15.0	4.83	110	70-130%	---	---	
Batch 22C0086 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0086-BLK1)			Prepared: 03/02/22 10:24		Analyzed: 03/03/22 20:49							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0086-BS1)			Prepared: 03/02/22 10:24		Analyzed: 03/03/22 20:52							
EPA 200.8												
Lead	17.0	---	0.201	ug/L	1	15.0	---	113	85-115%	---	---	
Duplicate (22C0086-DUP1)			Prepared: 03/02/22 10:24		Analyzed: 03/03/22 21:00							
QC Source Sample: KES-N-F (A2B0860-09)												

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Kessler Elementary School

Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0086 - EPA 200.8 Direct Analysis						Drinking Water						
Duplicate (22C0086-DUP1)			Prepared: 03/02/22 10:24    Analyzed: 03/03/22 21:00									
QC Source Sample: KES-N-F (A2B0860-09)												
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Matrix Spike (22C0086-MS1)			Prepared: 03/02/22 10:24    Analyzed: 03/03/22 21:03									
QC Source Sample: KES-N-F (A2B0860-09)												
EPA 200.8												
Lead	16.6	---	0.201	ug/L	1	15.0	ND	111	70-130%	---	---	
Matrix Spike (22C0086-MS2)			Prepared: 03/02/22 10:24    Analyzed: 03/03/22 22:38									
QC Source Sample: KES-H-9-F-L (A2B0860-28)												
EPA 200.8												
Lead	17.7	---	0.201	ug/L	1	15.0	1.61	107	70-130%	---	---	

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0088 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0088-BLK1)			Prepared: 03/02/22 10:27		Analyzed: 03/03/22 22:50							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0088-BS1)			Prepared: 03/02/22 10:27		Analyzed: 03/03/22 22:53							
EPA 200.8												
Lead	16.3	---	0.201	ug/L	1	15.0	---	108	85-115%	---	---	
Duplicate (22C0088-DUP1)			Prepared: 03/02/22 10:27		Analyzed: 03/03/22 23:01							
QC Source Sample: KES-H-9-B-F (A2B0860-29)												
EPA 200.8												
Lead	0.400	---	0.200	ug/L	1	---	0.378	---	---	6	20%	
Matrix Spike (22C0088-MS1)			Prepared: 03/02/22 10:27		Analyzed: 03/03/22 23:04							
QC Source Sample: KES-H-9-B-F (A2B0860-29)												
EPA 200.8												
Lead	16.6	---	0.201	ug/L	1	15.0	0.378	108	70-130%	---	---	
Matrix Spike (22C0088-MS2)			Prepared: 03/02/22 10:27		Analyzed: 03/04/22 00:35							
QC Source Sample: KES-22-DW-2 (A2B0860-48)												
EPA 200.8												
Lead	16.8	---	0.201	ug/L	1	15.0	1.03	105	70-130%	---	---	

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0102 - EPA 200.8 Direct Analysis						Drinking Water						
Blank (22C0102-BLK1)			Prepared: 03/02/22 14:00    Analyzed: 03/04/22 00:39									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0102-BS1)			Prepared: 03/02/22 14:00    Analyzed: 03/04/22 00:42									
EPA 200.8												
Lead	16.3	---	0.201	ug/L	1	15.0	---	109	85-115%	---	---	
Duplicate (22C0102-DUP1)			Prepared: 03/02/22 14:00    Analyzed: 03/04/22 00:50									
QC Source Sample: Non-SDG (A2B0600-31)												
Lead	1.00	---	0.200	ug/L	1	---	1.01	---	---	0.6	20%	
Matrix Spike (22C0102-MS1)			Prepared: 03/02/22 14:00    Analyzed: 03/04/22 00:53									
QC Source Sample: Non-SDG (A2B0600-31)												
EPA 200.8												
Lead	16.8	---	0.201	ug/L	1	15.0	1.01	105	70-130%	---	---	
Matrix Spike (22C0102-MS2)			Prepared: 03/02/22 14:00    Analyzed: 03/04/22 02:20									
QC Source Sample: Non-SDG (A2B0894-01)												
EPA 200.8												
Lead	16.2	---	0.201	ug/L	1	15.0	0.118	107	70-130%	---	---	

Apex Laboratories

Darrell Auvil, Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062Sterling Technologies LLC317 NE 144th St  
Vancouver, WA 98685Project: Drinking Water - 2022Project Number: Kessler Elementary School  
Project Manager: Thomas NadermannReport ID:

A2B0860 - 03 14 22 1105

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals in Drinking Water by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22C0275 - EPA 3015A						Drinking Water						
Blank (22C0275-BLK1)			Prepared: 03/07/22 14:36   Analyzed: 03/08/22 00:29									
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22C0275-BS1)			Prepared: 03/07/22 14:36   Analyzed: 03/08/22 00:34									
EPA 200.8												
Lead	16.4	---	0.200	ug/L	1	16.7	---	99	85-115%	---	---	
Duplicate (22C0275-DUP1)			Prepared: 03/07/22 14:36   Analyzed: 03/08/22 00:43									
QC Source Sample: KES-7-F (A2B0860-05)												
EPA 200.8												
Lead	4.90	---	0.200	ug/L	1	---	4.97	---	---	1	20%	DW-D
Matrix Spike (22C0275-MS1)			Prepared: 03/07/22 14:36   Analyzed: 03/08/22 00:53									
QC Source Sample: Non-SDG (A2B0932-35)												
EPA 200.8												
Lead	155	---	0.200	ug/L	1	16.7	145	60	70-130%	---	---	DW-D, Q-03

Apex Laboratories

Darrell Auvil, Client Services Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323

ORELAP ID: OR100062

**Sterling Technologies LLC**317 NE 144th St  
Vancouver, WA 98685Project: **Drinking Water - 2022**Project Number: **Kessler Elementary School**  
Project Manager: **Thomas Nadermann****Report ID:****A2B0860 - 03 14 22 1105****SAMPLE PREPARATION INFORMATION****Total Metals in Drinking Water by EPA 200.8 (ICPMS)****Prep: EPA 200.8 Direct Analysis**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 22C0020</b>							
A2B0860-01	Drinking Water	EPA 200.8	02/18/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0860-02	Drinking Water	EPA 200.8	02/18/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0860-03	Drinking Water	EPA 200.8	02/18/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0860-04	Drinking Water	EPA 200.8	02/18/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0860-06	Drinking Water	EPA 200.8	02/18/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0860-07	Drinking Water	EPA 200.8	02/18/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
A2B0860-08	Drinking Water	EPA 200.8	02/18/22 00:00	03/01/22 10:22	10mL/10mL	10mL/10mL	1.00
<b>Batch: 22C0086</b>							
A2B0860-09	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-10	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-11	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-12	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-13	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-14	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-15	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-16	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-17	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-18	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-19	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-20	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-21	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-22	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-23	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-24	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-25	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-26	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-27	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
A2B0860-28	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:24	10mL/10mL	10mL/10mL	1.00
<b>Batch: 22C0088</b>							
A2B0860-29	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-30	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-31	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-32	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-33	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-34	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**Sterling Technologies LLC**317 NE 144th St  
Vancouver, WA 98685Project: **Drinking Water - 2022**Project Number: **Kessler Elementary School**  
Project Manager: **Thomas Nadermann****Report ID:****A2B0860 - 03 14 22 1105****SAMPLE PREPARATION INFORMATION****Total Metals in Drinking Water by EPA 200.8 (ICPMS)****Prep: EPA 200.8 Direct Analysis**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A2B0860-35	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-36	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-37	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-38	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-39	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-40	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-41	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-42	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-43	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-44	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-45	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-46	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-47	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00
A2B0860-48	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 10:27	10mL/10mL	10mL/10mL	1.00

**Batch: 22C0102**

A2B0860-49	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 14:00	10mL/10mL	10mL/10mL	1.00
A2B0860-50	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 14:00	10mL/10mL	10mL/10mL	1.00
A2B0860-51	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 14:00	10mL/10mL	10mL/10mL	1.00
A2B0860-53	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 14:00	10mL/10mL	10mL/10mL	1.00
A2B0860-54	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 14:00	10mL/10mL	10mL/10mL	1.00
A2B0860-55	Drinking Water	EPA 200.8	02/18/22 00:00	03/02/22 14:00	10mL/10mL	10mL/10mL	1.00

**Prep: EPA 3015A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 22C0275</b>							
A2B0860-05	Drinking Water	EPA 200.8	02/18/22 00:00	03/07/22 14:36	45mL/50mL	45mL/50mL	1.00

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Kessler Elementary School  
Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- DW-D** Turbidity greater than 1 NTU. Sample was digested per EPA Method 200.8.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**Sterling Technologies LLC**

317 NE 144th St  
Vancouver, WA 98685

Project: **Drinking Water - 2022**

Project Number: **Kessler Elementary School**  
Project Manager: **Thomas Nadermann**

**Report ID:**

**A2B0860 - 03 14 22 1105**

### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).  
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")  
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).  
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.  
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.  
For further details, please request a copy of this document.

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**Sterling Technologies LLC**

317 NE 144th St  
Vancouver, WA 98685

Project: **Drinking Water - 2022**

Project Number: **Kessler Elementary School**  
Project Manager: **Thomas Nadermann**

**Report ID:**

**A2B0860 - 03 14 22 1105**

### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager





## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**Sterling Technologies LLC**

317 NE 144th St  
Vancouver, WA 98685

Project: **Drinking Water - 2022**

Project Number: **Kessler Elementary School**

Project Manager: **Thomas Nadermann**

**Report ID:**

**A2B0860 - 03 14 22 1105**

### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation) -**  
**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

#### **Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

#### **Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

#### **Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

#### **Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Kessler Elementary School

Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

# Chain of Custody

## Field Sampling Log

*A2 B0 860*  
Sterling Technologies, LLC  
Providing technical consulting support to the  
environmental and manufacturing industries  
317 NE 144th Street Vancouver, WA 98685  
360.376.6331

Project Name:

Site Location:

Date:

Project Contact:

*Pg 1 of 5*

Turnaround Time:

Normal: ☒

Other:

*Test Drinking Water for Lead*  
*Kessler Elementary School*  
*Feb 18, 2022*  
*T. Nadermann*

Sample ID	Location/Description	Analysis	Comments
KES-1-F	Glass - 1-Sink Faucet	Lead	EPA Method 2008
" - 1-DW	" - 1 - Water Fountain		
KES-2-F	" - 2 - Sink Faucet		
KES-2-DW	" - 2 - Water Fountain		
KES-7-F	" - 7 - Sink Faucet		
<del>KES-7-DW</del>	<del>" - 7 - Sink Faucet</del>		
KES-13-F	" - 13 - Sink Faucet	Lead	EPA Method 2008
" - 19-F	" - 19 - "		
KES-7-DW	" - 7 - Water Fountain		
KES-N-F	Nurses Office - Sink Faucet		
KES-N-RR-F	" - Rest. Room Sink Faucet		
KES-ST-F	Staff Lounge - Sink Faucet		
" - ST-RR-F	" - Rest. Room Sink Faucet		

Sampled by:

T. Nadermann

Date:

*Feb 18, 2022*

*1177*  
*Mr. Nadermann / Mr. David / Mr. Jeff*  
*2-23-22*

Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Kessler Elementary School

Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

A2B0860  
**Sterling Technologies, LLC**  
Providing technical consulting support to the  
environmental and manufacturing industries  
317 NE 144th Street Vancouver, WA 98685  
360.576.6331

**Chain of Custody**  
Field Sampling Log

Project Name:

Site Location:

Date:

Project Contact:

Turnaround Time:

Normal: ☒

Other: ☐

pg 2 of 5

Test Drinking Water for Lead

Kessler Elementary School

Feb 18, 2022

T. Nadermann

Sample ID	Location/Description	Analysis	Comments
KES-O-RR-F	Main Rest Room - Sink Faucet	Lead	EPA Method 200.8
KES-G-F	Gym - Drinking Water Fountain	"	"
<del>KES-G-F</del>	<del>" - Girls Water Fountain</del>	<del>"</del>	<del>"</del>
KES-G-B-F	" - Boys - Sink Faucet	Lead	EPA Method 200.8
KES-G-G-F	" - Girls - Sink Faucet	"	"
KES-AB-B-F	Auditorium - Boys - Sink Faucet	"	"
KES-AB-G-F	" - Girls - Sink Faucet	"	"
" - F-R	" - Sink Faucet - Right	"	"
" - F-L	" - Sink Faucet - Left	"	"
" - DW	" - Water Fountain	"	"
KES-H-M-F-R	Hall - Classroom 4 - Sink Faucet - Right	"	"
" - H-S-F-R	" - " - Sink Faucet - Right	"	"
" - H-S-F-L	" - " - Sink Faucet - Left	"	"

Sampled by:

T. Nadermann

Date:

Feb 18, 2022

1/22  
M. Nadermann  
2-23-22

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Kessler Elementary School

Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

# Chain of Custody

## Field Sampling Log

Sterling Technologies, LLC

Providing technical consulting support to the environmental and manufacturing industries

317 NE 144th Street Vancouver, WA 98685  
360.576.6331

Project Name:

Site Location:

Date:

Project Contact:

Test Drinking Water for Lead  
Kessler Elementary School  
Feb 18, 2022  
T. Nadermann

Turnaround Time:

Normal: ☒

Other:

Sample ID	Location/Description	Analysis	Comments
KES-H-5-DW	Hall - 5th Rm - 5 - Water Fountain	Lead	EPA Method 2008
" - H-9-DWL	" - " - 9 - Water Fountain - Left		
" - H-9-DWR	" - " - 9 - " - Right		
" - H-9-F-L	" - " - 9 - Sink Faucet - Left		
" - H-9-B-F	" - " - 9 - Restroom Sink Faucet		
" - H-9-G-F	" - " - 9 - Girls Restroom - " - Sink		
" - H-12-F-R	" - " - 12 - Sink Faucet - Right		
" - H-12-F-L	" - " - 12 - " - Left		
" - H-12-DW	" - " - 12 - Water Fountain		
" - H-15-F-R	" - " - 15 - Sink Faucet - Right		
" - H-15-F-L	" - " - 15 - " - Left		
" - H-15-DW	" - " - 15 - Water Fountain		
" - H-15-B-F	" - " - 15 - Boys Restroom - Sink Faucet		

Sampled by:

T. Nadermann

Date:

Feb 18, 2022

1172

22327



Sterling Technologies LLC

317 NE 144th St  
Vancouver, WA 98685

Project: Drinking Water - 2022

Project Number: Kessler Elementary School

Project Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

A2B0860  
**Sterling Technologies, LLC**  
Providing technical consulting support to the  
environmental and manufacturing industries  
317 NE 144th Street Vancouver, WA 98685  
360.576.6331

**Chain of Custody**  
Field Sampling Log

Ag 4 of 5  
Turnaround Time: X  
Normal: X  
Other:         

Test Drinking Water for Lead  
Kessler Elementary School  
Feb 18, 2022  
T. Nadermann

Project Name:  
Site Location:  
Date:  
Project Contact:

Sample ID	Location/Description	Analysis	Comments
KES-H-15-G-F	Hall - 15 - Girls - Sink	Lead	EPA Method 200.8
" - H-18-F-R	" - " - 18 - Sink - Right		
" - H-18-F-L	" - " - 18 - Sink - Left		
" - H-18-DW	" - " - 18 - Water Fountain		
" - H-F-R-20	" - " - 20 - Sink - Right		
" - H-F-L-20	" - " - 20 - Sink - Left		
" - H-DW-20	" - " - 20 - Water Fountain		
" - H-22-F1	" - " - 22 - Sink - #1		
" - H-22-F2	" - " - 22 - Sink - #2		
" - H-22-DW-1	" - " - 22 - Water Fountain - #1		
" - H-22-DW-2	" - " - 22 - Water Fountain - #2		
" - H-22-B-F	" - " - 22 - Boys - Sink		
" - H-22-G-F	" - " - 22 - Girls - Sink		

Date: Feb 18 2022  
M. K. Kessler  
1122  
7-23-22

Sampled by: T. Nadermann





## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Sterling Technologies LLC

317 NE 144th St

Vancouver, WA 98685

Project: Drinking Water - 2022Project Number: Kessler Elementary SchoolProject Manager: Thomas Nadermann

Report ID:

A2B0860 - 03 14 22 1105

## APEX LABS COOLER RECEIPT FORM

Client: Sterling Technologies LLC Element WO#: A2B0860Project/Project #: Test Drinking Water for Lead - Kessler Elementary School

## Delivery Info:

Date/time received: 2-23-22 @ 11:22 By: MMDelivered by: Apex ☒ Client ☐ ESS ☐ FedEx ☐ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 2-23-22 @ 12:50 By: MMChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>11.4</u>						
Received on ice? (Y/N)	<u>N</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>N/A</u>						
Condition:	<u>good</u>						

Cooler out of temp? (Y/N) Possible reason why: Drinking Water/Lead TestingGreen dots applied to out of temperature samples? Yes ☐ No ☒Out of temperature samples form initiated? Yes ☐ No ☒Sample Inspection: Date/time inspected: 2/25/22 @ 15:12 By: ZAMAll samples intact? Yes ☒ No ☐ Comments: ZAM 2/25/22Bottle labels/COCs agree? Yes ☐ No ☒ Comments: Col reads KES-BF & KES-Container reads B-F. Missing Sample KES-H.C.F.L.COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒Comments: Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐Comments: 

## Additional information:

Labeled by: VKMWitness: BCooler Inspected by: ZAM

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Darrell Auvil, Client Services Manager

Page 26 of 26