Limited Lead in Drinking Water Assessment

Longview Public Schools
Longview, Washington
Mark Morris High School

LONGVIEW
PUBLIC SCHOOLS
CREATING THE FUTURE TODAY

Assessment Date(s): June 9, 2022

Report Date: July 18th, 2022

Prepared for: Jason Reetz, Facilities Manager
Longview Public Schools

Facility Owner/Operator: Longview Public Schools

Indoor Air Quality ASSOCIATION MEMBER

Prepared By:

Sterling Technologies, LLC
317 NE 144th Street
Vancouver, WA 98685

AIHA MEMBER

Limited Lead in Drinking Water Assessment

Introduction

Sterling Technologies (Sterling) has recently completed a limited lead in drinking water screening of the Mark Morris High School, Longview Public Schools, located at 1602 Mark Morris Court in 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 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 109 drinking water sources at the school.

94 samples were found to NOT contain elevated lead levels as they were below 15 ppb.

15 samples were found to contain elevated lead levels (above 15 ppb). 54 samples had lead levels present.

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.

Assessment Results

Analytical Results: Lead in Drinking Water

Item	Sample ID.	Area/Building	Location	Result (µ/L)
1	MM-1	Classroom D1	Sink Faucet, Left 1	0.434
2	MM-2	Classroom D1	Sink Faucet, Left 2	0.650

Item	Sample ID.	Area/Building	Location	Result (µ/L)
3	MM-3	Kitchen	Sink Faucet, Right 1	0.558
4	MM-4	Kitchen	Sink Faucet, Right 2	1.74
5	MM-5	Kitchen	Sink Faucet, Right 3 & 4	18.2
6	MM-6	Kitchen	Sink Faucet, White	1.28
7	MM-7	Kitchen	Sink Faucet, Front	ND
8	MM-8	Nurse's Office	Sink Faucet	0.289
9	MM-9	Nurse's Office	Restroom, Sink Faucet	0.805
10	MM-10	Concessions	Sink Faucet, North	78.1
11	MM-11	Concessions	Sink Faucet, South	13.4
12	MM-12	Classroom D3	Sink Faucet, Left 1	6.26
13	MM-13	Classroom D3	Sink Faucet, Left 2	46.2
14	MM-14	Classroom D3	Sink Faucet, Prep	2.29
15	MM-15	Classroom D4	Sink Faucet, North	6.43
16	MM-16	Classroom D5	Sink Faucet, Left 1	3.19
17	MM-17	Classroom D5	Sink Faucet, Left 2	2.39
18	MM-18	Classroom D5	Prep Sink Faucet, Left 1	41.0
19	MM-19	Classroom D5	Prep Sink Faucet, Left 2	6.90
20	MM-20	Classroom D5	Prep Sink Faucet, Left 3	15.6
21	MM-21	Classroom D5	Prep Sink Faucet, Left 4	38.0
22	MM-22	Classroom D6	Sink Faucet, Left 1 Rear	0.944
23	MM-23	Classroom D6	Sink Faucet, Left 2 East	13.7
24	MM-24	Classroom D6	Sink Faucet, Left 2 West	13.3
25	MM-25	Classroom D6	Sink Faucet, Left 3 East	27.1
26	MM-26	Classroom D6	Sink Faucet, Left 3 West	11.0
27	MM-27	Classroom D6	Sink Faucet, Left 4 West	10.8
28	MM-28	Classroom D6	Sink Faucet, Left 4 West	9.94
29	MM-29	Classroom D6	Sink Faucet, Left 5 South	1.02
30	MM-30	Classroom D7	Sink Faucet, Left 1	3.90
31	MM-31	Classroom D7	Sink Faucet, Left 2	1.72
32	MM-32	Classroom D7	Sink Faucet, Left 3	5.48
33	MM-33	Classroom D7	Sink Faucet, Left 4	3.30
34	MM-34	Classroom D8	Sink Faucet, Left 1	5.22
35	MM-35	Classroom D8	Sink Faucet, Left 2	8.65
36	MM-36	Classroom D8	Sink Faucet, Left 3	14.8
37	MM-37	Classroom D8	Sink Faucet, Left 4	24.1

Item	Sample ID.	Area/Building	Location	Result (µ/L)
38	MM-38	Classroom D8	Sink Faucet, Left 5	8.37
39	MM-39	Library	Staff Restroom, Sink Faucet	29.5
40	MM-40	Library	Resource Room, Sink Faucet	2.15
41	MM-41	Classroom B5	Drinking Fountain	4.42
42	MM-42	Classroom B6	Drinking Fountain	1.29
43	MM-43	Classroom B6	Sink Faucet	5.62
44	MM-44	Classroom B8	Sink Faucet	0.619
45	MM-45	Classroom B8	Drinking Fountain	2.25
46	MM-46	Classroom AA1	Practice Room, Sink Faucet	6.39
47	MM-47	Classroom AA1	Center, Sink Faucet	3.67
48	MM-48	Classroom AA1	Center, Drinking Fountain	5.19
49	MM-49	Classroom AA1	Right, Sink Faucet	65.1
50	MM-50	Classroom AA1	Restroom, Sink Faucet	9.16
51	MM-51	Classroom AA1	Center Restroom, Sink Faucet	4.66
52	MM-52	Classroom AA3	Sink Faucet, Left 1	7.25
53	MM-53	Classroom AA3	Sink Faucet, Left 2	5.84
54	MM-54	Classroom AA3	Sink Faucet, Left 3	3.17
55	MM-55	Classroom AA3	Sink Faucet, Left 4	1.77
56	MM-56	Classroom AA6	Sink Faucet, White	4.07
57	MM-57	Classroom AA1	Drinking Fountain	1.32
58	MM-58	Boiler Room	Sink Faucet	0.446
59	MM-59	Boiler Room	Restroom, Sink Faucet	2.19
60	MM-60	Classroom S1	Sink Faucet	0.434
61	MM-61	Classroom S3	Sink Faucet	ND
62	MM-62	Classroom S6	Sink Faucet	ND
63	MM-63	Classroom S7	Sink Faucet	4.69
64	MM-64	Metal Shop	White Sink Faucet	5.71
65	MM-65	Welding Shop	Sink Faucet	3.35
66	MM-66	Shop Building	Restroom, Sink Faucet Left Side	0.454
67	MM-67	Shop Building	Restroom, Sink Faucet Right Side	5.81
68	MM-68	Classroom M5	Drinking Fountain	50.5
69	MM-69	Pool Building	Drinking Fountain	ND
70	MM-70	Pool Building	Women’s Restroom, Sink Faucet	6.05
71	MM-71	Pool Building	Men’s Restroom, Sink Faucet	11.8
72	MM-72	Pool Building	Men’s Locker Room, Sink Faucet	1.26

Item	Sample ID.	Area/Building	Location	Result (µ/L)
73	MM-73	Pool Building	Women's Locker Room, Sink Faucet	0.760
74	MM-74	Pool Building	Women's Locker Room Restroom, Sink Faucet	1.95
75	MM-75	Hall by CRm A1	Drinking Fountain	ND
76	MM-76	Hall by CRm A1	Women's Restroom	0.503
77	MM-77	Staff Room	Sink Faucet	7.73
78	MM-78	Staff Room	Restroom, Sink Faucet	0.347
79	MM-79	Main Office	Sink Faucet	5.83
80	MM-80	Main Office	Women's Staff Restroom, Sink Faucet	0.229
81	MM-81	A Wing – Center	Sink Faucet	9.42
82	MM-82	A Wing – Center	Drinking Fountain	22.1
83	MM-83	A Wing – Center	Restroom, Sink Faucet	0.351
84	MM-84	By D Wing	Girls' Restroom	12.2
85	MM-85	Opposite Gym	Men's Restroom, Sink Faucet	68.2
86	MM-86	Staff Room	Sink Faucet	1.31
87	MM-87	Classroom A1	Sink Faucet	1.45
88	MM-88	Classroom BF	Sink Faucet	23.1
89	MM-89	Classroom SS6	Sink Faucet, Right 2	0.675
90	MM-90	Men's Staff	Restroom, Sink Faucet	0.402
91	MM-91	Opposite Cafe	Men's Restroom, Sink Faucet	0.378
92	MM-92	Opposite Café	Women's Restroom, Sink Faucet	5.52
93	MM-93	All Gender	Restroom, Sink Faucet	3.35
94	MM-94	Outside Café	Drinking Fountain/Sink Faucet	ND
95	MM-95	Opposite Gym	Men's Restroom, Sink Faucet	0.611
96	MM-96	Classroom D7	Sink Faucet, Left 5	4.65
97	MM-97	Classroom AA4	Restroom, Sink Faucet	1.09
98	MM-98	Classroom AA4	Drinking Fountain	9.69
99	MM-99	Classroom AA4	Sink Faucet	6.84
100	MM-100	Outside Gym	Drinking Fountain, North	ND
101	MM-101	Outside Gym	Drinking Fountain, South	4.19
102	MM-102	Boy's Locker	Sink Faucet	0.502
103	MM-103	Boy's Locker	Staff Restroom, Sink Faucet	1.13
104	MM-104	Girl's Locker	Drinking Fountain	5.00
105	MM-105	Girl's Locker	Sink Faucet	2.12
106	MM-106	Gym	Drinking Fountain, South	ND
107	MM-107	Gym	Drinking Fountain, North	0.552

Item	Sample ID.	Area/Building	Location	Result (µ/L)
108	MM-108	By Class D1	Women's Restroom, Sink Faucet	0.331
109	MM-109	Resource Center	Restroom, Sink Faucet	16.9

ND = Non-Detect11.9

As highlighted ( ) in the above table on the previous pages, the lab result for 15 of the 109 drinking water samples collected was found to be at or above the 15 ppb action level for lead in drinking water. The remaining 94 drinking water samples were found to be below the 15 ppb action level. 54 samples were positive for traces and higher levels of lead but were below the federal standard.

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

Conclusions and Recommendations

Fifteen locations were noted to have elevated lead levels in drinking water. No elevated lead in drinking water levels (15 ppb) were noted in the other locations that were sampled as the results were below the lead in drinking water EPA standard under the Safe Drinking Water Act. Fifty-one drinking water locations did have residual lead levels above a background level of 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 older school plumbing systems (school built in 1970s) and the residual levels of lead noted in the drinking water sources highlighted in blue, Sterling recommends that the district consider replacement of all water fountains at the campus 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

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

Certification #	Issuance Date	Expiration Date
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

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

Appendix B

Field Data

Laboratory Results

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

ANALYTICAL REPORT

Tuesday, June 28, 2022

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

RE: A2F0420 - Drinking Water - 2022 - Mark Morris High 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 A2F0420, which was received by the laboratory on 6/10/2022 at 12:43:00PM.

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, 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	17.9 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

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.

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

ANALYTICAL REPORT

Sterling Technologies LLC	Project: Drinking Water - 2022	
317 NE 144th St	Project Number: Mark Morris High School	Report ID:
Vancouver, WA 98685	Project Manager: Thomas Nadermann	A2F0420 - 06 28 22 1736

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MM-1	A2F0420-01	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-2	A2F0420-02	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-3	A2F0420-03	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-4	A2F0420-04	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-5	A2F0420-05	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-6	A2F0420-06	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-7	A2F0420-07	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-8	A2F0420-08	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-9	A2F0420-09	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-10	A2F0420-10	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-11	A2F0420-11	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-12	A2F0420-12	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-13	A2F0420-13	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-14	A2F0420-14	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-15	A2F0420-15	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-16	A2F0420-16	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-17	A2F0420-17	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-18	A2F0420-18	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-19	A2F0420-19	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-20	A2F0420-20	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-21	A2F0420-21	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-22	A2F0420-22	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-23	A2F0420-23	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-24	A2F0420-24	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-25	A2F0420-25	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-26	A2F0420-26	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-27	A2F0420-27	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-28	A2F0420-28	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-29	A2F0420-29	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-30	A2F0420-30	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-31	A2F0420-31	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-32	A2F0420-32	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-33	A2F0420-33	Drinking Water	06/09/22 00:00	06/10/22 12:43

Apex Laboratories

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

Sterling Technologies LLC	Project: Drinking Water - 2022	
317 NE 144th St	Project Number: Mark Morris High School	Report ID:
Vancouver, WA 98685	Project Manager: Thomas Nadermann	A2F0420 - 06 28 22 1736

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MM-34	A2F0420-34	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-35	A2F0420-35	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-36	A2F0420-36	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-37	A2F0420-37	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-38	A2F0420-38	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-39	A2F0420-39	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-40	A2F0420-40	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-41	A2F0420-41	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-42	A2F0420-42	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-43	A2F0420-43	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-44	A2F0420-44	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-45	A2F0420-45	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-46	A2F0420-46	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-47	A2F0420-47	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-48	A2F0420-48	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-49	A2F0420-49	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-50	A2F0420-50	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-51	A2F0420-51	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-52	A2F0420-52	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-53	A2F0420-53	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-54	A2F0420-54	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-55	A2F0420-55	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-56	A2F0420-56	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-57	A2F0420-57	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-58	A2F0420-58	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-59	A2F0420-59	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-60	A2F0420-60	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-61	A2F0420-61	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-62	A2F0420-62	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-63	A2F0420-63	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-64	A2F0420-64	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-65	A2F0420-65	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-66	A2F0420-66	Drinking Water	06/09/22 00:00	06/10/22 12:43

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: Drinking Water - 2022	
317 NE 144th St	Project Number: Mark Morris High School	Report ID:
Vancouver, WA 98685	Project Manager: Thomas Nadermann	A2F0420 - 06 28 22 1736

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MM-67	A2F0420-67	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-68	A2F0420-68	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-69	A2F0420-69	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-70	A2F0420-70	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-71	A2F0420-71	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-72	A2F0420-72	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-73	A2F0420-73	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-74	A2F0420-74	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-75	A2F0420-75	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-76	A2F0420-76	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-77	A2F0420-77	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-78	A2F0420-78	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-79	A2F0420-79	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-80	A2F0420-80	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-81	A2F0420-81	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-82	A2F0420-82	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-83	A2F0420-83	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-84	A2F0420-84	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-85	A2F0420-85	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-86	A2F0420-86	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-87	A2F0420-87	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-88	A2F0420-88	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-89	A2F0420-89	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-90	A2F0420-90	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-91	A2F0420-91	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-92	A2F0420-92	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-93	A2F0420-93	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-94	A2F0420-94	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-95	A2F0420-95	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-96	A2F0420-96	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-97	A2F0420-97	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-98	A2F0420-98	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-99	A2F0420-99	Drinking Water	06/09/22 00:00	06/10/22 12:43

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MM-100	A2F0420-AA	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-101	A2F0420-AB	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-102	A2F0420-AC	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-103	A2F0420-AD	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-104	A2F0420-AE	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-105	A2F0420-AF	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-106	A2F0420-AG	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-107	A2F0420-AH	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-108	A2F0420-AI	Drinking Water	06/09/22 00:00	06/10/22 12:43
MM-109	A2F0420-AJ	Drinking Water	06/09/22 00:00	06/10/22 12:43

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317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-1 (A2F0420-01RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**0.434**	---	0.200	ug/L	1	06/23/22 15:51	EPA 200.8	
MM-2 (A2F0420-02RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**0.650**	---	0.200	ug/L	1	06/23/22 15:54	EPA 200.8	
MM-3 (A2F0420-03RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**0.558**	---	0.200	ug/L	1	06/23/22 15:57	EPA 200.8	
MM-4 (A2F0420-04RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**1.74**	---	0.200	ug/L	1	06/23/22 16:01	EPA 200.8	
MM-5 (A2F0420-05RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**18.2**	---	0.200	ug/L	1	06/23/22 16:05	EPA 200.8	
MM-6 (A2F0420-06RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**1.28**	---	0.200	ug/L	1	06/23/22 16:09	EPA 200.8	
MM-7 (A2F0420-07RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	ND	---	0.200	ug/L	1	06/23/22 16:13	EPA 200.8	
MM-8 (A2F0420-08RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**0.289**	---	0.200	ug/L	1	06/23/22 16:16	EPA 200.8	
MM-9 (A2F0420-09RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**0.805**	---	0.200	ug/L	1	06/23/22 16:20	EPA 200.8	
MM-10 (A2F0420-10RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-10 (A2F0420-10RE1)				**Matrix: Drinking Water**				
Lead	**78.1**	---	0.200	ug/L	1	06/23/22 16:23	EPA 200.8	
MM-11 (A2F0420-11RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**13.4**	---	0.200	ug/L	1	06/23/22 16:35	EPA 200.8	
MM-12 (A2F0420-12RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**6.26**	---	0.200	ug/L	1	06/23/22 16:39	EPA 200.8	
MM-13 (A2F0420-13RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**46.2**	---	0.200	ug/L	1	06/23/22 16:43	EPA 200.8	
MM-14 (A2F0420-14RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**2.29**	---	0.200	ug/L	1	06/23/22 16:48	EPA 200.8	
MM-15 (A2F0420-15RE1)				**Matrix: Drinking Water**				
Batch: 22F0717								
Lead	**6.43**	---	0.200	ug/L	1	06/23/22 16:52	EPA 200.8	
MM-16 (A2F0420-16RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**3.19**	---	0.200	ug/L	1	06/23/22 17:10	EPA 200.8	
MM-17 (A2F0420-17RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**2.39**	---	0.200	ug/L	1	06/23/22 17:31	EPA 200.8	
MM-18 (A2F0420-18RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**41.0**	---	0.200	ug/L	1	06/23/22 17:35	EPA 200.8	
MM-19 (A2F0420-19RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-19 (A2F0420-19RE1)				**Matrix: Drinking Water**				
Lead	**6.90**	---	0.200	ug/L	1	06/23/22 17:39	EPA 200.8	
MM-20 (A2F0420-20RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**15.6**	---	0.200	ug/L	1	06/23/22 17:43	EPA 200.8	
MM-21 (A2F0420-21RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**38.0**	---	0.200	ug/L	1	06/23/22 17:47	EPA 200.8	
MM-22 (A2F0420-22RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**0.944**	---	0.200	ug/L	1	06/23/22 17:52	EPA 200.8	
MM-23 (A2F0420-23RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**13.7**	---	0.200	ug/L	1	06/23/22 17:55	EPA 200.8	
MM-24 (A2F0420-24RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**13.3**	---	0.200	ug/L	1	06/23/22 17:59	EPA 200.8	
MM-25 (A2F0420-25RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**27.1**	---	0.200	ug/L	1	06/23/22 18:03	EPA 200.8	
MM-26 (A2F0420-26RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**11.0**	---	0.200	ug/L	1	06/23/22 18:15	EPA 200.8	
MM-27 (A2F0420-27RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**10.8**	---	0.200	ug/L	1	06/23/22 18:19	EPA 200.8	
MM-28 (A2F0420-28RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-28 (A2F0420-28RE1)				**Matrix: Drinking Water**				
Lead	**9.94**	---	0.200	ug/L	1	06/23/22 18:24	EPA 200.8	
MM-29 (A2F0420-29RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**1.02**	---	0.200	ug/L	1	06/23/22 18:28	EPA 200.8	
MM-30 (A2F0420-30RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**3.90**	---	0.200	ug/L	1	06/23/22 18:32	EPA 200.8	
MM-31 (A2F0420-31RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**1.72**	---	0.200	ug/L	1	06/23/22 18:36	EPA 200.8	
MM-32 (A2F0420-32RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**5.48**	---	0.200	ug/L	1	06/23/22 18:40	EPA 200.8	
MM-33 (A2F0420-33RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**3.30**	---	0.200	ug/L	1	06/23/22 18:44	EPA 200.8	
MM-34 (A2F0420-34RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**5.22**	---	0.200	ug/L	1	06/23/22 18:48	EPA 200.8	
MM-35 (A2F0420-35RE1)				**Matrix: Drinking Water**				
Batch: 22F0725								
Lead	**8.65**	---	0.200	ug/L	1	06/23/22 18:52	EPA 200.8	
MM-36 (A2F0420-36RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**14.8**	---	0.200	ug/L	1	06/23/22 19:16	EPA 200.8	
MM-37 (A2F0420-37RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-37 (A2F0420-37RE1)				**Matrix: Drinking Water**				
Lead	**24.1**	---	0.200	ug/L	1	06/23/22 19:29	EPA 200.8	
MM-38 (A2F0420-38RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**8.37**	---	0.200	ug/L	1	06/23/22 19:33	EPA 200.8	
MM-39 (A2F0420-39RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**29.5**	---	0.200	ug/L	1	06/23/22 19:37	EPA 200.8	
MM-40 (A2F0420-40RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**2.15**	---	0.200	ug/L	1	06/23/22 19:41	EPA 200.8	
MM-41 (A2F0420-41RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**4.42**	---	0.200	ug/L	1	06/23/22 19:53	EPA 200.8	
MM-42 (A2F0420-42RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**1.29**	---	0.200	ug/L	1	06/23/22 19:57	EPA 200.8	
MM-43 (A2F0420-43RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**5.62**	---	0.200	ug/L	1	06/23/22 20:01	EPA 200.8	
MM-44 (A2F0420-44RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**0.619**	---	0.200	ug/L	1	06/23/22 20:05	EPA 200.8	
MM-45 (A2F0420-45RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**2.25**	---	0.200	ug/L	1	06/23/22 20:09	EPA 200.8	
MM-46 (A2F0420-46RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-46 (A2F0420-46RE1)				**Matrix: Drinking Water**				
Lead	**6.39**	---	0.200	ug/L	1	06/23/22 20:13	EPA 200.8	
MM-47 (A2F0420-47RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**3.67**	---	0.200	ug/L	1	06/23/22 20:17	EPA 200.8	
MM-48 (A2F0420-48RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**5.19**	---	0.200	ug/L	1	06/23/22 20:21	EPA 200.8	
MM-49 (A2F0420-49RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**65.1**	---	0.200	ug/L	1	06/23/22 20:25	EPA 200.8	
MM-50 (A2F0420-50RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**9.16**	---	0.200	ug/L	1	06/23/22 20:30	EPA 200.8	
MM-51 (A2F0420-51RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**4.66**	---	0.200	ug/L	1	06/23/22 20:42	EPA 200.8	
MM-52 (A2F0420-52RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**7.25**	---	0.200	ug/L	1	06/23/22 20:46	EPA 200.8	
MM-53 (A2F0420-53RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**5.84**	---	0.200	ug/L	1	06/23/22 20:50	EPA 200.8	
MM-54 (A2F0420-54RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								
Lead	**3.17**	---	0.200	ug/L	1	06/23/22 20:54	EPA 200.8	
MM-55 (A2F0420-55RE1)				**Matrix: Drinking Water**				
Batch: 22F0728								

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317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-55 (A2F0420-55RE1)				**Matrix: Drinking Water**				
Lead	**1.77**	---	0.200	ug/L	1	06/23/22 20:58	EPA 200.8	
MM-56 (A2F0420-56)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**4.07**	---	0.200	ug/L	1	06/21/22 14:16	EPA 200.8	
MM-57 (A2F0420-57)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**1.32**	---	0.200	ug/L	1	06/21/22 14:28	EPA 200.8	
MM-58 (A2F0420-58)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**0.446**	---	0.200	ug/L	1	06/21/22 14:32	EPA 200.8	
MM-59 (A2F0420-59)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**2.19**	---	0.200	ug/L	1	06/21/22 14:35	EPA 200.8	
MM-60 (A2F0420-60)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**0.434**	---	0.200	ug/L	1	06/21/22 14:39	EPA 200.8	
MM-61 (A2F0420-61)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	ND	---	0.200	ug/L	1	06/21/22 14:42	EPA 200.8	
MM-62 (A2F0420-62)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	ND	---	0.200	ug/L	1	06/21/22 14:54	EPA 200.8	
MM-63 (A2F0420-63)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**4.69**	---	0.200	ug/L	1	06/21/22 14:57	EPA 200.8	
MM-64 (A2F0420-64)				**Matrix: Drinking Water**				
Batch: 22F0748								

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ANALYTICAL REPORT

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317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-64 (A2F0420-64)				**Matrix: Drinking Water**				
Lead	**5.71**	---	0.200	ug/L	1	06/21/22 15:01	EPA 200.8	
MM-65 (A2F0420-65)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**3.35**	---	0.200	ug/L	1	06/21/22 15:05	EPA 200.8	
MM-66 (A2F0420-66)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**0.454**	---	0.200	ug/L	1	06/21/22 15:09	EPA 200.8	
MM-67 (A2F0420-67)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**5.81**	---	0.200	ug/L	1	06/21/22 15:12	EPA 200.8	
MM-68 (A2F0420-68)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**50.5**	---	0.200	ug/L	1	06/21/22 15:16	EPA 200.8	
MM-69 (A2F0420-69)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	ND	---	0.200	ug/L	1	06/21/22 15:21	EPA 200.8	
MM-70 (A2F0420-70)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**6.05**	---	0.200	ug/L	1	06/21/22 15:24	EPA 200.8	
MM-71 (A2F0420-71)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**11.8**	---	0.200	ug/L	1	06/21/22 15:28	EPA 200.8	
MM-72 (A2F0420-72)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**1.26**	---	0.200	ug/L	1	06/21/22 15:40	EPA 200.8	
MM-73 (A2F0420-73)				**Matrix: Drinking Water**				
Batch: 22F0748								

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-73 (A2F0420-73)				**Matrix: Drinking Water**				
Lead	**0.760**	---	0.200	ug/L	1	06/21/22 15:44	EPA 200.8	
MM-74 (A2F0420-74)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	**1.95**	---	0.200	ug/L	1	06/21/22 15:51	EPA 200.8	
MM-75 (A2F0420-75)				**Matrix: Drinking Water**				
Batch: 22F0748								
Lead	ND	---	0.200	ug/L	1	06/21/22 15:55	EPA 200.8	
MM-76 (A2F0420-76)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**0.503**	---	0.200	ug/L	1	06/21/22 16:10	EPA 200.8	
MM-77 (A2F0420-77)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**7.73**	---	0.200	ug/L	1	06/21/22 16:29	EPA 200.8	
MM-78 (A2F0420-78)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**0.347**	---	0.200	ug/L	1	06/21/22 16:33	EPA 200.8	
MM-79 (A2F0420-79)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**5.83**	---	0.200	ug/L	1	06/21/22 16:36	EPA 200.8	
MM-80 (A2F0420-80)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**0.229**	---	0.200	ug/L	1	06/21/22 16:40	EPA 200.8	
MM-81 (A2F0420-81)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**9.42**	---	0.200	ug/L	1	06/21/22 16:44	EPA 200.8	
MM-82 (A2F0420-82)				**Matrix: Drinking Water**				
Batch: 22F0749								

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-82 (A2F0420-82)				**Matrix: Drinking Water**				
Lead	**22.1**	---	0.200	ug/L	1	06/21/22 16:48	EPA 200.8	
MM-83 (A2F0420-83)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**0.351**	---	0.200	ug/L	1	06/21/22 16:52	EPA 200.8	
MM-84 (A2F0420-84)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**12.2**	---	0.200	ug/L	1	06/21/22 16:55	EPA 200.8	
MM-85 (A2F0420-85)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**68.2**	---	0.200	ug/L	1	06/21/22 16:59	EPA 200.8	
MM-86 (A2F0420-86)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**1.31**	---	0.200	ug/L	1	06/21/22 17:04	EPA 200.8	
MM-87 (A2F0420-87)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**1.45**	---	0.200	ug/L	1	06/21/22 17:16	EPA 200.8	
MM-88 (A2F0420-88)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**23.1**	---	0.200	ug/L	1	06/21/22 17:20	EPA 200.8	
MM-89 (A2F0420-89)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**0.675**	---	0.200	ug/L	1	06/21/22 17:24	EPA 200.8	
MM-90 (A2F0420-90)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**0.402**	---	0.200	ug/L	1	06/21/22 17:27	EPA 200.8	
MM-91 (A2F0420-91)				**Matrix: Drinking Water**				
Batch: 22F0749								

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317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-91 (A2F0420-91)				**Matrix: Drinking Water**				
Lead	**0.378**	---	0.200	ug/L	1	06/21/22 17:30	EPA 200.8	
MM-92 (A2F0420-92)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**5.52**	---	0.200	ug/L	1	06/21/22 17:34	EPA 200.8	
MM-93 (A2F0420-93)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**3.35**	---	0.200	ug/L	1	06/21/22 17:38	EPA 200.8	
MM-94 (A2F0420-94)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	ND	---	0.200	ug/L	1	06/21/22 17:42	EPA 200.8	
MM-95 (A2F0420-95)				**Matrix: Drinking Water**				
Batch: 22F0749								
Lead	**0.611**	---	0.200	ug/L	1	06/21/22 17:45	EPA 200.8	
MM-96 (A2F0420-96)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**4.65**	---	0.200	ug/L	1	06/21/22 18:08	EPA 200.8	
MM-97 (A2F0420-97RE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**1.09**	---	0.200	ug/L	1	06/23/22 21:11	EPA 200.8	
MM-98 (A2F0420-98RE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**9.69**	---	0.200	ug/L	1	06/23/22 21:15	EPA 200.8	
MM-99 (A2F0420-99RE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**6.84**	---	0.200	ug/L	1	06/23/22 21:19	EPA 200.8	
MM-100 (A2F0420-AARE1)				**Matrix: Drinking Water**				
Batch: 22F0765								

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Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-100 (A2F0420-AARE1)				**Matrix: Drinking Water**				
Lead	ND	---	0.200	ug/L	1	06/23/22 21:31	EPA 200.8	
MM-101 (A2F0420-ABRE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**4.19**	---	0.200	ug/L	1	06/23/22 21:34	EPA 200.8	
MM-102 (A2F0420-ACRE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**0.502**	---	0.200	ug/L	1	06/23/22 21:38	EPA 200.8	
MM-103 (A2F0420-ADRE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**1.13**	---	0.200	ug/L	1	06/23/22 21:42	EPA 200.8	
MM-104 (A2F0420-AERE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**5.00**	---	0.200	ug/L	1	06/23/22 21:46	EPA 200.8	
MM-105 (A2F0420-AFRE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**2.12**	---	0.200	ug/L	1	06/23/22 21:50	EPA 200.8	
MM-106 (A2F0420-AGRE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	ND	---	0.200	ug/L	1	06/23/22 21:54	EPA 200.8	
MM-107 (A2F0420-AHRE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**0.552**	---	0.200	ug/L	1	06/23/22 21:57	EPA 200.8	
MM-108 (A2F0420-AIRE1)				**Matrix: Drinking Water**				
Batch: 22F0765								
Lead	**0.331**	---	0.200	ug/L	1	06/23/22 22:01	EPA 200.8	
MM-109 (A2F0420-AJRE1)				**Matrix: Drinking Water**				
Batch: 22F0765								

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Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
MM-109 (A2F0420-AJRE1)				**Matrix: Drinking Water**				
Lead	**16.9**	---	0.200	ug/L	1	06/23/22 22:04	EPA 200.8	

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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 22F0717 - EPA 200.8 Direct Analysis											**Drinking Water**	
Blank (22F0717-BLK2)			Prepared: 06/20/22 15:11		Analyzed: 06/23/22 15:09							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (22F0717-BS2)			Prepared: 06/20/22 15:11		Analyzed: 06/23/22 15:12							
EPA 200.8												
Lead	15.2	---	0.201	ug/L	1	15.0	---	101	85-115%	---	---	Q-16
Duplicate (22F0717-DUP2)			Prepared: 06/20/22 15:11		Analyzed: 06/23/22 15:20							
QC Source Sample: Non-SDG (A2F0413-07RE1)												
Lead	ND	---	0.200	ug/L	1	---	0.212	---	---	***	20%	Q-16
Matrix Spike (22F0717-MS3)			Prepared: 06/20/22 15:11		Analyzed: 06/23/22 15:23							
QC Source Sample: Non-SDG (A2F0413-07RE1)												
EPA 200.8												
Lead	15.1	---	0.201	ug/L	1	15.0	0.212	99	70-130%	---	---	Q-16
Matrix Spike (22F0717-MS4)			Prepared: 06/20/22 15:11		Analyzed: 06/23/22 16:56							
QC Source Sample: MM-15 (A2F0420-15RE1)												
EPA 200.8												
Lead	20.9	---	0.201	ug/L	1	15.0	6.43	97	70-130%	---	---	Q-16
Batch 22F0725 - EPA 200.8 Direct Analysis											**Drinking Water**	
Blank (22F0725-BLK2)			Prepared: 06/20/22 16:06		Analyzed: 06/23/22 17:01							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (22F0725-BS2)			Prepared: 06/20/22 16:06		Analyzed: 06/23/22 17:05							
EPA 200.8												
Lead	15.6	---	0.201	ug/L	1	15.0	---	104	85-115%	---	---	Q-16
Duplicate (22F0725-DUP2)			Prepared: 06/20/22 16:06		Analyzed: 06/23/22 17:15							
QC Source Sample: MM-16 (A2F0420-16RE1)												

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Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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 22F0725 - EPA 200.8 Direct Analysis									Drinking Water			
Duplicate (22F0725-DUP2)			Prepared: 06/20/22 16:06		Analyzed: 06/23/22 17:15							
QC Source Sample: MM-16 (A2F0420-16RE1)												
EPA 200.8												
Lead	**3.22**	---	0.200	ug/L	1	---	3.19	---	---	1	20%	Q-16
Matrix Spike (22F0725-MS3)			Prepared: 06/20/22 16:06		Analyzed: 06/23/22 17:26							
QC Source Sample: MM-16 (A2F0420-16RE1)												
EPA 200.8												
Lead	19.5	---	0.201	ug/L	1	15.0	3.19	109	70-130%	---	---	Q-16
Matrix Spike (22F0725-MS4)			Prepared: 06/20/22 16:06		Analyzed: 06/23/22 19:04							
QC Source Sample: MM-35 (A2F0420-35RE1)												
EPA 200.8												
Lead	23.2	---	0.201	ug/L	1	15.0	8.65	97	70-130%	---	---	Q-16

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Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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 22F0728 - EPA 200.8 Direct Analysis												**Drinking Water**
Blank (22F0728-BLK2)			Prepared: 06/20/22 17:47		Analyzed: 06/23/22 19:08							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (22F0728-BS2)			Prepared: 06/20/22 17:47		Analyzed: 06/23/22 19:12							
EPA 200.8												
Lead	14.7	---	0.201	ug/L	1	15.0	---	98	85-115%	---	---	Q-16
Duplicate (22F0728-DUP2)			Prepared: 06/20/22 17:47		Analyzed: 06/23/22 19:20							
QC Source Sample: MM-36 (A2F0420-36RE1)												
EPA 200.8												
Lead	**14.8**	---	0.200	ug/L	1	---	14.8	---	---	0.03	20%	Q-16
Matrix Spike (22F0728-MS3)			Prepared: 06/20/22 17:47		Analyzed: 06/23/22 19:24							
QC Source Sample: MM-36 (A2F0420-36RE1)												
EPA 200.8												
Lead	29.3	---	0.201	ug/L	1	15.0	14.8	97	70-130%	---	---	Q-16
Matrix Spike (22F0728-MS4)			Prepared: 06/20/22 17:47		Analyzed: 06/23/22 21:02							
QC Source Sample: MM-55 (A2F0420-55RE1)												
EPA 200.8												
Lead	15.9	---	0.201	ug/L	1	15.0	1.77	94	70-130%	---	---	Q-16

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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 22F0748 - EPA 200.8 Direct Analysis												**Drinking Water**
Blank (22F0748-BLK1)			Prepared: 06/21/22 11:20		Analyzed: 06/21/22 14:08							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22F0748-BS1)			Prepared: 06/21/22 11:20		Analyzed: 06/21/22 14:11							
EPA 200.8												
Lead	14.6	---	0.201	ug/L	1	15.0	---	97	85-115%	---	---	
Duplicate (22F0748-DUP1)			Prepared: 06/21/22 11:20		Analyzed: 06/21/22 14:20							
QC Source Sample: MM-56 (A2F0420-56)												
EPA 200.8												
Lead	**4.07**	---	0.200	ug/L	1	---	4.07	---	---	0.004	20%	
Matrix Spike (22F0748-MS1)			Prepared: 06/21/22 11:20		Analyzed: 06/21/22 14:24							
QC Source Sample: MM-56 (A2F0420-56)												
EPA 200.8												
Lead	18.1	---	0.201	ug/L	1	15.0	4.07	93	70-130%	---	---	
Matrix Spike (22F0748-MS2)			Prepared: 06/21/22 11:20		Analyzed: 06/21/22 15:59							
QC Source Sample: MM-75 (A2F0420-75)												
EPA 200.8												
Lead	13.7	---	0.201	ug/L	1	15.0	ND	91	70-130%	---	---	

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Report ID:
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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 22F0749 - EPA 200.8 Direct Analysis									Drinking Water			
Blank (22F0749-BLK1)			Prepared: 06/21/22 11:23		Analyzed: 06/21/22 16:03							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22F0749-BS1)			Prepared: 06/21/22 11:23		Analyzed: 06/21/22 16:06							
EPA 200.8												
Lead	14.2	---	0.201	ug/L	1	15.0	---	95	85-115%	---	---	
Duplicate (22F0749-DUP1)			Prepared: 06/21/22 11:23		Analyzed: 06/21/22 16:14							
QC Source Sample: MM-76 (A2F0420-76)												
EPA 200.8												
Lead	**0.518**	---	0.200	ug/L	1	---	0.503	---	---	3	20%	
Matrix Spike (22F0749-MS1)			Prepared: 06/21/22 11:23		Analyzed: 06/21/22 16:17							
QC Source Sample: MM-76 (A2F0420-76)												
EPA 200.8												
Lead	14.1	---	0.201	ug/L	1	15.0	0.503	90	70-130%	---	---	
Matrix Spike (22F0749-MS2)			Prepared: 06/21/22 11:23		Analyzed: 06/21/22 17:49							
QC Source Sample: MM-95 (A2F0420-95)												
EPA 200.8												
Lead	14.2	---	0.201	ug/L	1	15.0	0.611	91	70-130%	---	---	

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ANALYTICAL REPORT

Sterling Technologies LLC	Project:	Drinking Water - 2022
317 NE 144th St	Project Number:	Mark Morris High School
Vancouver, WA 98685	Project Manager:	Thomas Nadermann

Report ID:
A2F0420 - 06 28 22 1736

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 22F0765 - EPA 200.8 Direct Analysis									Drinking Water			
Blank (22F0765-BLK1)			Prepared: 06/21/22 15:06		Analyzed: 06/21/22 18:00							
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (22F0765-BS1)			Prepared: 06/21/22 15:06		Analyzed: 06/21/22 18:04							
EPA 200.8												
Lead	15.2	---	0.201	ug/L	1	15.0	---	101	85-115%	---	---	
Duplicate (22F0765-DUP1)			Prepared: 06/21/22 15:06		Analyzed: 06/21/22 18:12							
QC Source Sample: MM-96 (A2F0420-96)												
EPA 200.8												
Lead	**4.61**	---	0.200	ug/L	1	---	4.65	---	---	1	20%	
Matrix Spike (22F0765-MS2)			Prepared: 06/21/22 15:06		Analyzed: 06/22/22 18:02							
QC Source Sample: Non-SDG (A2F0522-06RE1)												
EPA 200.8												
Lead	16.2	---	0.201	ug/L	1	15.0	1.33	99	70-130%	---	---	
Matrix Spike (22F0765-MS3)			Prepared: 06/21/22 15:06		Analyzed: 06/23/22 21:06							
QC Source Sample: MM-96 (A2F0420-96)												
EPA 200.8												
Lead	19.6	---	0.201	ug/L	1	15.0	4.65	100	70-130%	---	---	Q-16

Apex Laboratories

Darrell Auvil, Client Services Manager

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

ANALYTICAL REPORT

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317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
Batch: 22F0717							
A2F0420-01RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-02RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-03RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-04RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-05RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-06RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-07RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-08RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-09RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-10RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-11RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-12RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-13RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-14RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
A2F0420-15RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 15:11	10mL/10mL	10mL/10mL	1.00
Batch: 22F0725							
A2F0420-16RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-17RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-18RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-19RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-20RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-21RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-22RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-23RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-24RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-25RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-26RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-27RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-28RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-29RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-30RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-31RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-32RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-33RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-34RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00
A2F0420-35RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 16:06	10mL/10mL	10mL/10mL	1.00

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
Batch: 22F0728							
A2F0420-36RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-37RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-38RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-39RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-40RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-41RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-42RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-43RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-44RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-45RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-46RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-47RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-48RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-49RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-50RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-51RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-52RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-53RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-54RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
A2F0420-55RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/20/22 17:47	10mL/10mL	10mL/10mL	1.00
Batch: 22F0748							
A2F0420-56	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-57	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-58	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-59	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-60	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-61	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-62	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-63	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-64	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-65	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-66	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-67	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-68	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-69	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00

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APEX LABORATORIES

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
A2F0420-70	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-71	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-72	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-73	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-74	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
A2F0420-75	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:20	10mL/10mL	10mL/10mL	1.00
Batch: 22F0749							
A2F0420-76	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-77	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-78	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-79	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-80	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-81	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-82	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-83	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-84	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-85	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-86	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-87	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-88	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-89	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-90	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-91	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-92	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-93	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-94	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
A2F0420-95	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 11:23	10mL/10mL	10mL/10mL	1.00
Batch: 22F0765							
A2F0420-96	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-97RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-98RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-99RE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-AARE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-ABRE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-ACRE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-ADRE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00

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Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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
A2F0420-AERE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-AFRE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-AGRE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-AHRE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-AIRE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00
A2F0420-AJRE1	Drinking Water	EPA 200.8	06/09/22 00:00	06/21/22 15:06	10mL/10mL	10mL/10mL	1.00

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317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

QUALIFIER DEFINITIONS

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

Apex Laboratories

Q-16 Reanalysis of an original Batch QC sample.

Darrell Auvil, Client Services Manager

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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

Darrell Auvil, Client Services Manager

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

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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.

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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

All reported analytes are included in Apex Laboratories' current ORELAP scope.

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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Darrell Auvil, Client Services Manager

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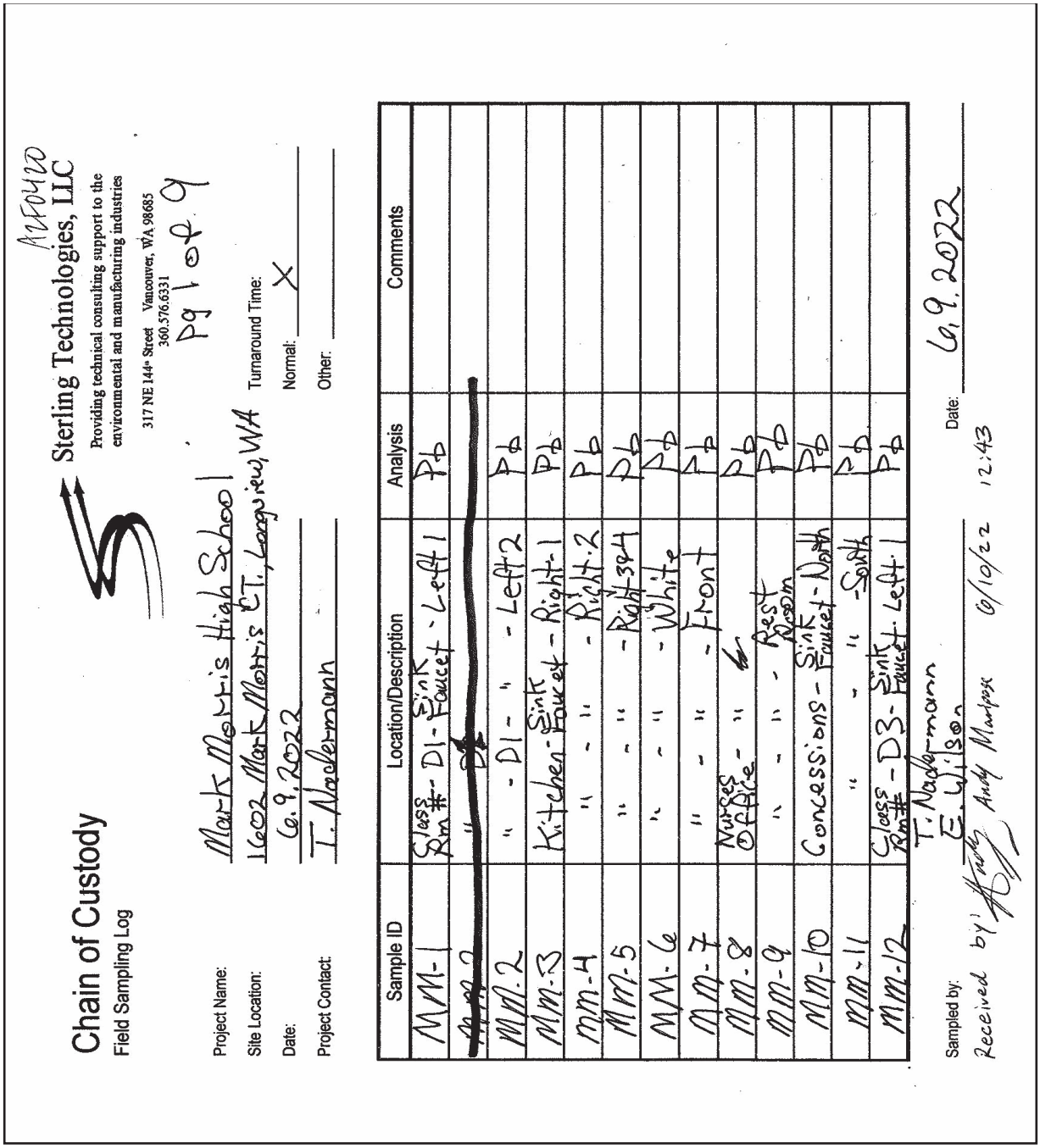
Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**



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

A2F0420
Pg 1 of 9

Project Name: Mark Morris High School
Site Location: 1602 Mark Morris Ct, Longview, WA
Date: 6.9.2022
Project Contact: T. Nadermann

Turnaround Time:
Normal: X
Other:

Sample ID	Location/Description	Analysis	Comments
MM-1	Glass Rm#- D1- Sink Faucet - Left 1	Pb	
MM-2	" - D1 - " - Left 2	Pb	
MM-3	Kitchen- Sink Faucet - Right 1	Pb	
MM-4	" - " - Right 2	Pb	
MM-5	" - " - Right 3&4	Pb	
MM-6	" - " - White	Pb	
MM-7	" - " - Front	Pb	
MM-8	Nurses Office - " -	Pb	
MM-9	" - " - Rest Room	Pb	
MM-10	Concessions - Sink Faucet - North	Pb	
MM-11	" - " - South	Pb	
MM-12	Glass Rm#- D3- Sink Faucet Left 1	Pb	

Sampled by: T. Nadermann, E. Wilson
Received by: Andy Madpax 6/10/22 12:43
Date: 6.9.2022

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ORELAP ID: **OR100062**

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

A1F0420

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

Pg 2 of 9

Project Name: Mark Morris High School

Site Location: 1602 Mark Morris Ct., Longview, WA

Date: 6.9.2022

Project Contact: T. Nadermann

Turnaround Time: Normal: X Other:

Sample ID	Location/Description	Analysis	Comments
MM-13	Closet Rm# - D3- Sink Faucet Left 2	PD	
MM-14	" - D3- " - Front	PD	
MM-15	" - D4- Sink+ Faucet- North	PD	
MM-16	" - D5- " - Left 1	PD	
MM-17	" - D5- " - Left 2	PD	
MM-18	" - B6- " - Left 1	PD	
MM-19	" - " - " - Left 2	PD	
MM-20	" - " - " - Left 3	PD	
MM-21	" - " - " - Left 4	PD	
MM-22	" - D6 - " - Left 1 Rear	PD	
MM-23	" - " - " - Left 2 East	PD	
MM-24	" - " - " - Left 2 West	PD	
MM-25	" - " - " - Left 3 East	PD	

Sampled by: T. Nadermann

Received by: E. Wilson 6/10/22 1343

Date: 6.9.2022

Andy Marquez

Apex Laboratories, LLC
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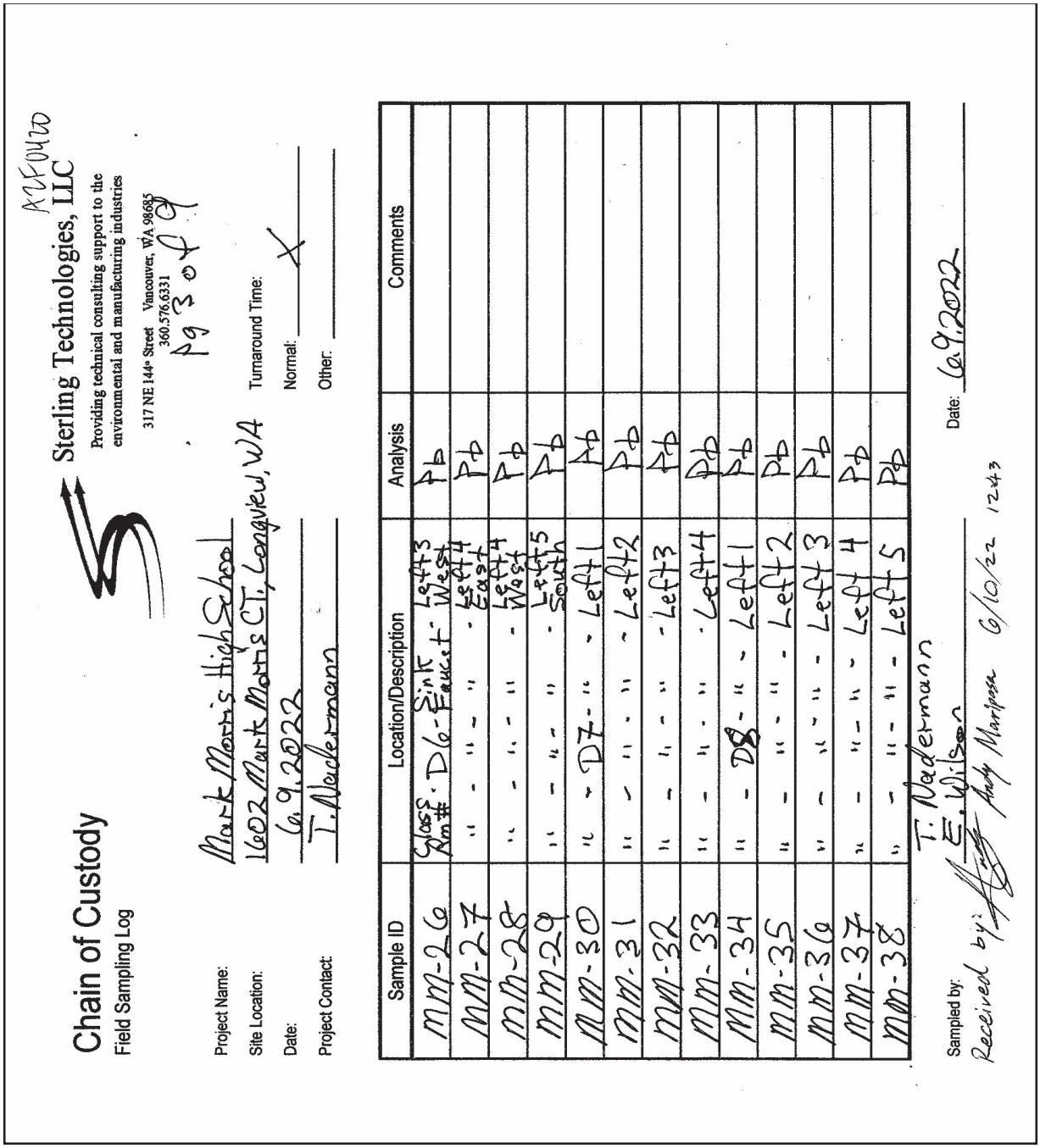
503-718-2323
ORELAP ID: **OR100062**

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**



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

A2F0420
Pg 3 of 9

Project Name: Mark Morris High School
Site Location: 1602 Mark Morris Ct, Longview, WA
Date: 6.9.2022
Project Contact: T. Nadermann

Turnaround Time:
Normal: X
Other: ____

Sample ID	Location/Description	Analysis	Comments
MM-26	Glass Rm# - D6 - Sink - Left 3 - West	Pb	
MM-27	" - " - " - Left 4 - East	Pb	
MM-28	" - " - " - Left 4 - West	Pb	
MM-29	" - " - " - Left 5 - South	Pb	
MM-30	" - D7 - " - Left 1	Pb	
MM-31	" - " - " - Left 2	Pb	
MM-32	" - " - " - Left 3	Pb	
MM-33	" - " - " - Left 4	Pb	
MM-34	" - D8 - " - Left 1	Pb	
MM-35	" - " - " - Left 2	Pb	
MM-36	" - " - " - Left 3	Pb	
MM-37	" - " - " - Left 4	Pb	
MM-38	" - " - " - Left 5	Pb	

Sampled by: T. Nadermann
Received by: E. Wilson Andy Marpoe 6/10/22 1243

Date: 6.9.2022

Apex Laboratories, LLC
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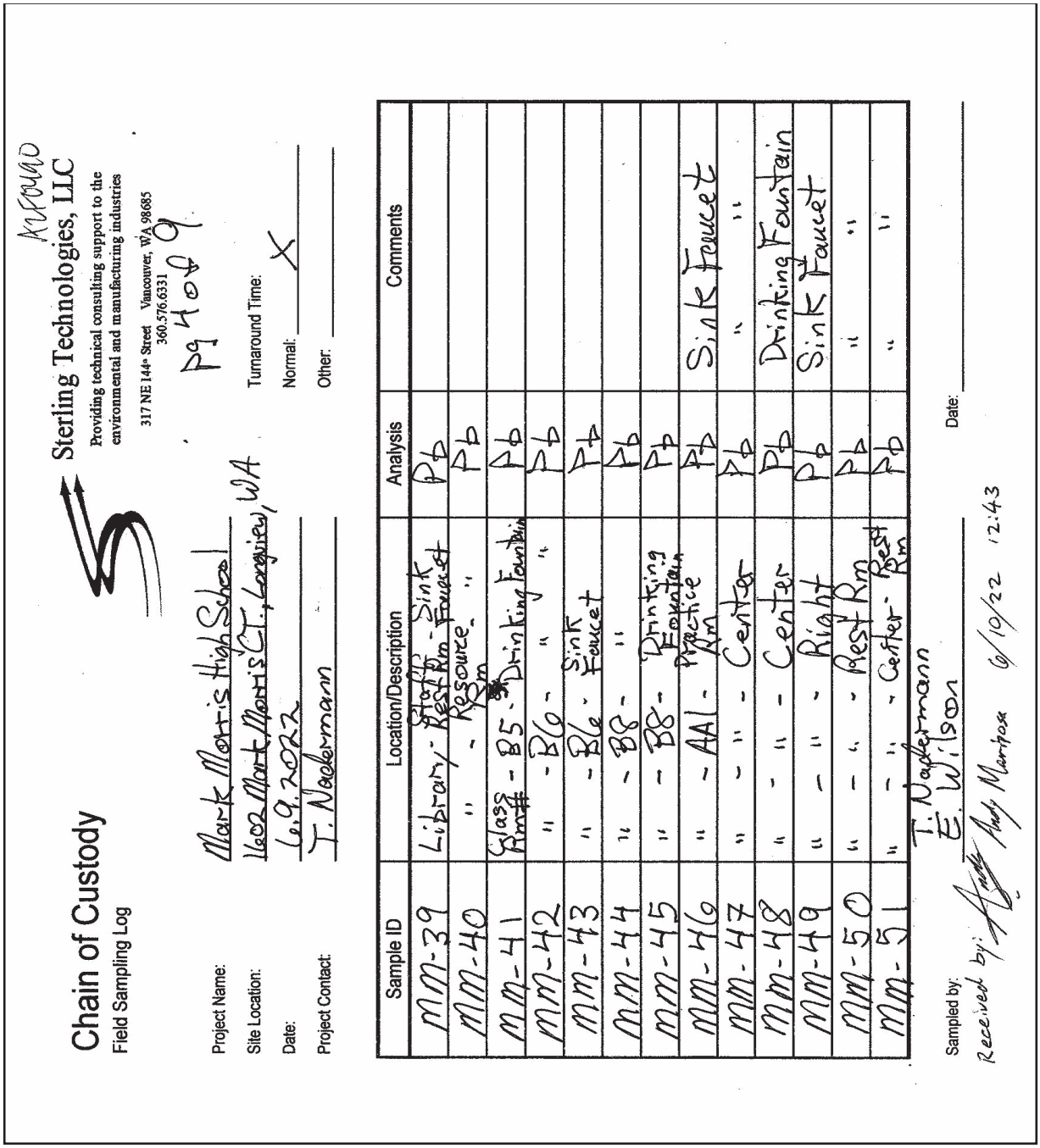
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**



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: Mark Morris High School
Site Location: 1600 Mark Morris Ct, Longview, WA
Date: 6.9.2022
Project Contact: T. Nadermann

Turnaround Time:
Normal: X
Other: _____

Sample ID	Location/Description	Analysis	Comments
MM-39	Library - Staff - Sink Rest Rm - Faucet	Pb	
MM-40	" - Resource Rm	Pb	
MM-41	Glass Rm# - B5 - Drinking Fountain	Pb	
MM-42	" - B6 - "	Pb	
MM-43	" - B6 - Sink Faucet	Pb	
MM-44	" - B8 - "	Pb	
MM-45	" - B8 - Drinking Fountain	Pb	
MM-46	" - AA1 - Practice Rm	Pb	Sink Faucet
MM-47	" - " - Center	Pb	"
MM-48	" - " - Center	Pb	Drinking Fountain
MM-49	" - " - Right	Pb	Sink Faucet
MM-50	" - " - Rest Rm	Pb	"
MM-51	" - " - Center - Rest Rm	Pb	"

Sampled by: T. Nadermann
Received by: E. Wilson Andy Morrison 6/10/22 12:43
Date: _____

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Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

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: Mark Morris High School
Site Location: 1602 Mark Morris Ct, Longview, WA
Date: 6.9.2022
Project Contact: T. Nadermann

Turnaround Time:
Normal: X
Other:

Sample ID	Location/Description	Analysis	Comments
MM-52	Glass Rm #- AA3- Sink Faucet Left 1	Pb	
MM-53	" - " - " - Left 2	Pb	
MM-54	" - " - " - Left 3	Pb	
MM-55	" - " - " - Left 4	Pb	
MM-56	" - AA6 - " - White	Pb	
MM-57	" - AA1 - Drinking Fountain	Pb	Practice Rm
MM-58	Boiler Rm - Sink Faucet	Pb	
MM-59	" - Rest Rm - Sink Faucet	Pb	
MM-60	Glass Rm - S1 - Sink Faucet	Pb	
MM-61	" - S3 - "	Pb	
MM-62	" - S6 - "	Pb	
MM-63	" - S7 - "	Pb	
MM-64	Metal Shop - White Sink Faucet	Pb	

Sampled by: T. Nadermann
Received by: E. Wilson Andy Montoya 6/10/22 12:43
Date: 6.9.2022

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503-718-2323
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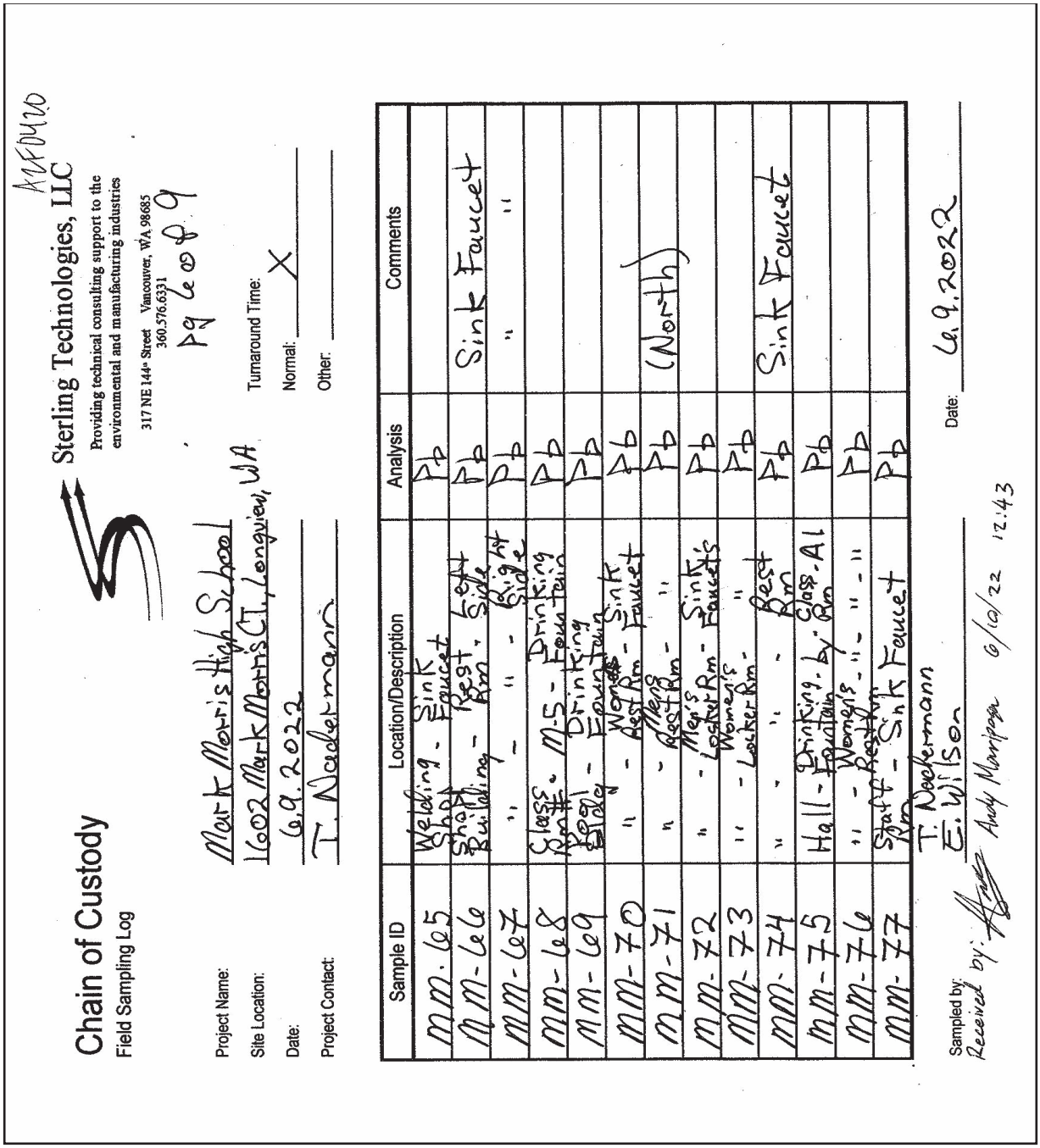
Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**



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

A2F0420
Pg 1 of 9

Project Name: Mark Morris High School
Site Location: 1602 Mark Morris Ct, Longview, WA
Date: 6.9.2022
Project Contact: T. Nadermann

Turnaround Time:
Normal: X
Other:

Sample ID	Location/Description	Analysis	Comments
MM-165	Welding - Sink Faucet	Pb	
MM-166	Shop Building - Rest. Room - Left Side	Pb	Sink Faucet
MM-167	" - " - Right Side	Pb	"
MM-168	Glass M.S - Drinking Fountain	Pb	
MM-169	Band Room - Drinking Fountain	Pb	
MM-170	Band Room - Sink Faucet	Pb	
MM-171	" - Rest Room - Mens	Pb	(North)
MM-172	" - Men's Rest Rm - Sink Faucet	Pb	
MM-173	" - Locker Rm - Womens - "	Pb	
MM-174	" - Locker Rm - Rest Rm	Pb	Sink Faucet
MM-175	Hall - Drinking Fountain by Class. A1	Pb	
MM-176	" - Womens Rest Rm - " - "	Pb	
MM-177	Staff Rest Rm - Sink Faucet	Pb	

Sampled by: T. Nadermann
Received by: E. Wilson Andy Manjarrez 6/10/22 12:43

Date: 6.9.2022

APEX LABORATORIES

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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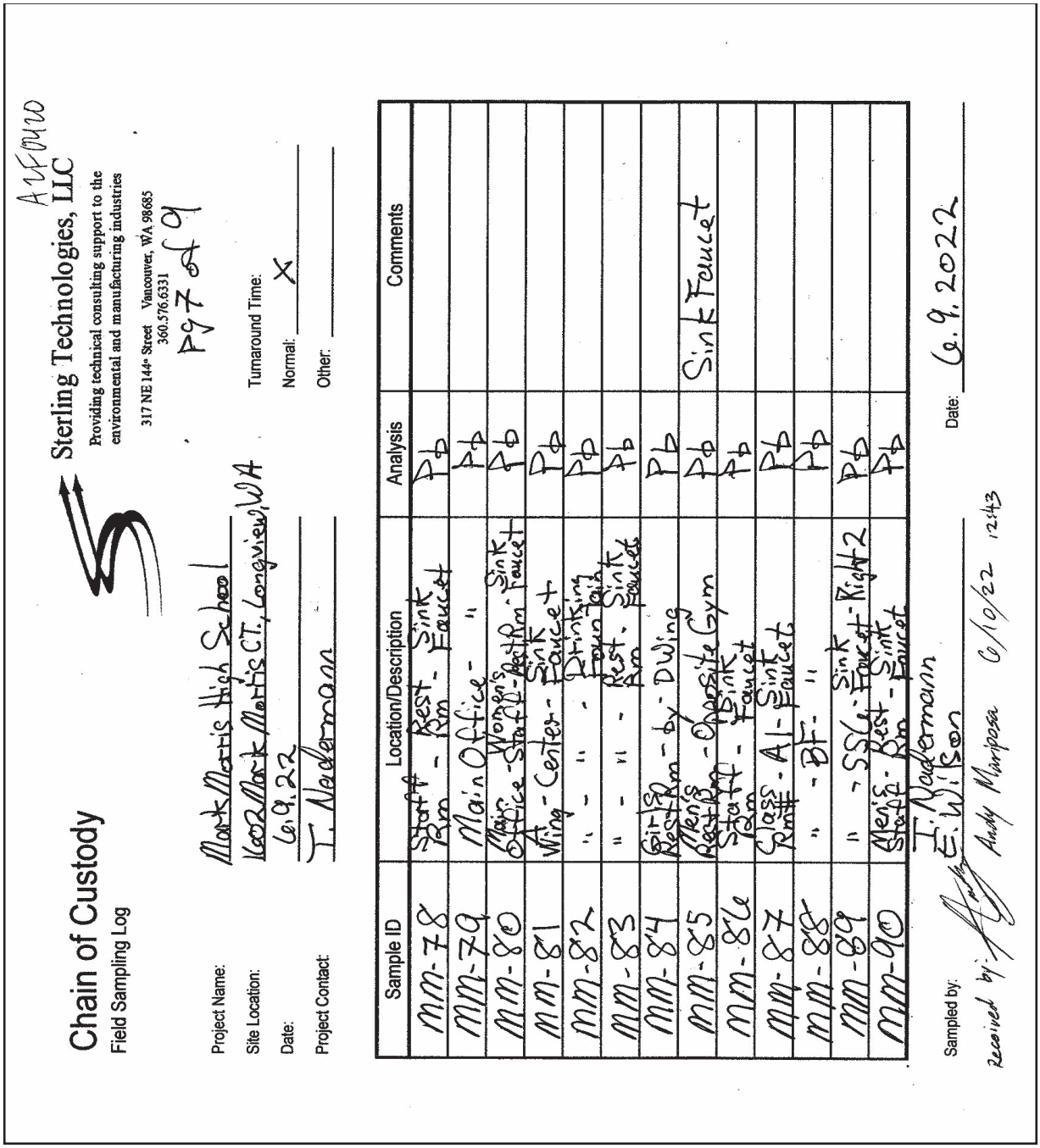
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**



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

A1F0420
Pg 7 of 9

Project Name: Mark Morris High School
Site Location: 1602 Mark Morris CT., Longview, WA
Date: 6.9.22
Project Contact: T. Nadermann

Turnaround Time:
Normal: X
Other:

Sample ID	Location/Description	Analysis	Comments
MM-78	Staff - Rest. Sink Rm - Faucet	Pb	
MM-79	Main Office - "	Pb	
MM-80	Main Office - Staff Women's Restroom - Sink Faucet	Pb	
MM-81	A Wing - Center - Sink Faucet - Drinking Fountain	Pb	
MM-82	" - " - " - "	Pb	
MM-83	" - " - Rest. Sink Rm Faucet	Pb	
MM-84	Girl's Restroom - by DWing	Pb	
MM-85	Men's Restroom - Opposite Gym	Pb	Sink Faucet
MM-85e	Staff - Sink Room - Faucet	Pb	
MM-87	Class - A1 - Sink Room - Faucet	Pb	
MM-88	" - B1 - "	Pb	
MM-89	" - SSC - Sink - Faucet - Right 2	Pb	
MM-90	Men's Staff - Rest. Rm - Sink Faucet	Pb	

Sampled by: T. Nadermann E. Wilson
Date: 6.9.2022
Received by: Andy Mariposa 6/10/22 1243

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Darrell Auvil, Client Services Manager

Apex Laboratories, LLC

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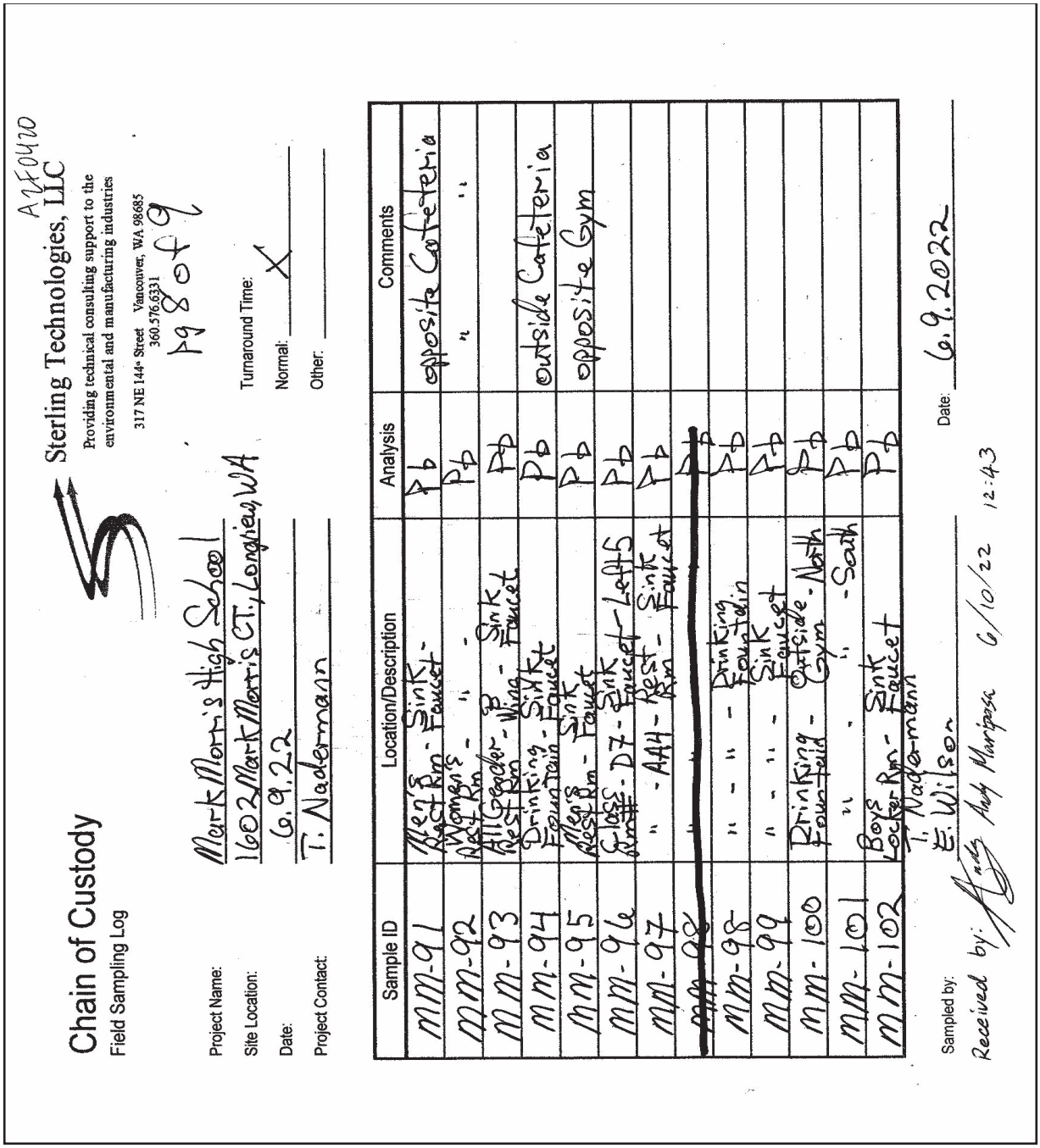

Chain of Custody
Field Sampling Log

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

A2F0420
Pg 8 of 9

Project Name: Mark Morris High School
Site Location: 1602 Mark Morris Ct. Longview WA
Date: 6.9.22
Project Contact: T. Nadermann

Turnaround Time:
Normal: X
Other:

Sample ID	Location/Description	Analysis	Comments
MM-91	Men's Rest Rm - Sink - Faucet	Pb	opposite Cafeteria
MM-92	Women's " " - Sink - Faucet	Pb	" "
MM-93	Athletic Locker Rm - B Wing - Sink - Faucet	Pb	
MM-94	Drinking Fountain - Sink	Pb	outside Cafeteria
MM-95	Men's Rest Rm - Faucet	Pb	opposite Gym
MM-96	Close - D7 - Sink - Faucet - Left S	Pb	
MM-97	" - AAH - Rest Rm - Sink - Faucet	Pb	
MM-98	[redacted]	Pb	
MM-98	" " " - Drinking Fountain	Pb	
MM-99	" " " - Sink - Faucet	Pb	
MM-100	Drinking Fountain - Outside - Gym - North	Pb	
MM-101	" " " - South	Pb	
MM-102	Boys Locker Rm - Sink - Faucet	Pb	

Sampled by: T. Nadermann
Received by: E. Wilson Andy Mariposa 6/10/22 12:43

Date: 6.9.2022

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ANALYTICAL REPORT

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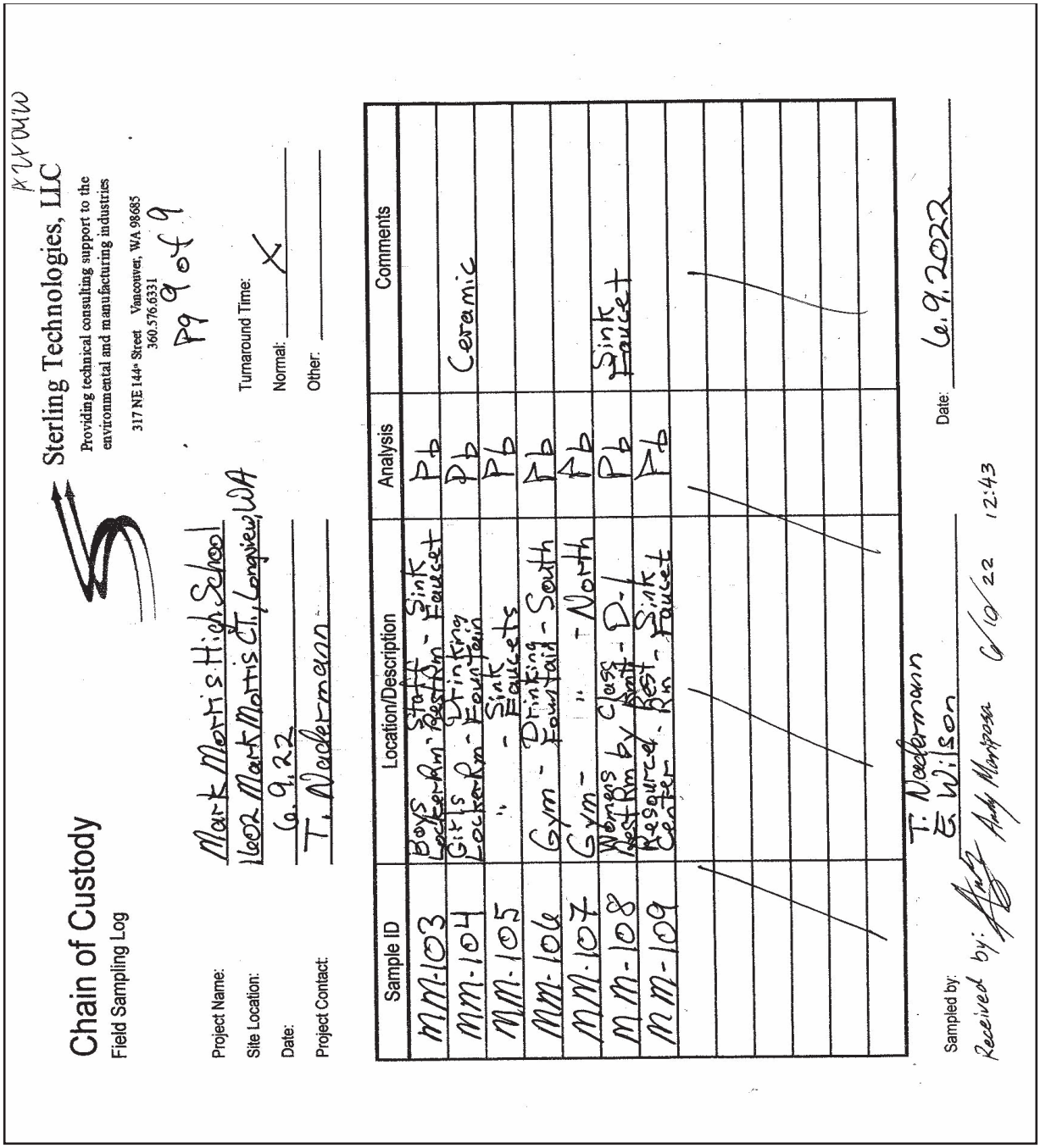
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**



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

#2V0W0

Pg 9 of 9

Project Name: Mark Morris High School
Site Location: 1600 Mark Morris Ct, Longview, WA
Date: 6.9.22
Project Contact: T. Nadermann

Turnaround Time:
Normal: X
Other:

Sample ID	Location/Description	Analysis	Comments
MM-103	Boys Locker Rm - Staff Restrm - Sink - Faucet	Pb	
MM-104	Girls Locker Rm - Drinking Fountain	Pb	Ceramic
MM-105	" - Sink - Faucets	Pb	
MM-106	Gym - Drinking Fountain - South	Pb	
MM-107	Gym - " - North	Pb	
MM-108	Womens Restrm by Class - D-1	Pb	Sink
MM-109	Resource Center - Restrm by Asst. Dir. - Sink - Faucet	Pb	Faucet

Sampled by: T. Nadermann & E. Wilson
Date: 6.9.2022
Received by: Andy Montoya 6/10/22 12:43

Apex Laboratories, LLC
6700 S.W. Sandburg Street
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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Sterling Technologies LLC	Project: **Drinking Water - 2022**	
317 NE 144th St	Project Number: **Mark Morris High School**	**Report ID:**
Vancouver, WA 98685	Project Manager: **Thomas Nadermann**	**A2F0420 - 06 28 22 1736**

APEX LABS COOLER RECEIPT FORM

Client: Sterling Technologies, LLC Element WO#: A2 F0420

Project/Project #: Mark Morris High School

Delivery Info:
Date/time received: 6/10/22 @ 1243 By: AM
Delivered by: Apex X Client ESS FedEx UPS Swift Senvoy SDS Other
Cooler Inspection Date/time inspected: 6/10/22 @ 1556 By: ET
Chain of Custody included? Yes X No Custody seals? Yes No X
Signed/dated by client? Yes X No
Signed/dated by Apex? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	17.9						
Received on ice? (Y/N)	N						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	NA						
Condition:	ET 6/10/22 OUT						

Cooler out of temp? (Y/N) Possible reason why: Drinking waters
Green dots applied to out of temperature samples? Yes/No
Out of temperature samples form initiated? Yes/No
Sample Inspection: Date/time inspected: 6/14/22 @ 1100 By: LS
All samples intact? Yes X No ___ Comments:

Bottle labels/COCs agree? Yes X No ___ Comments:

COC/container discrepancies form initiated? Yes ___ No X
Containers/volumes received appropriate for analysis? Yes X No ___ Comments:

Do VOA vials have visible headspace? Yes ___ No ___ NA X
Comments
Water samples: pH checked: Yes X No ___ NA ___ pH appropriate? Yes X No ___ NA ___
Comments:

Additional information:

Labeled by: LS Witness: DKL Cooler Inspected by: LS

Apex Laboratories

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Darrell Auvil, Client Services Manager