

Lead in Drinking Water First Draw Sampling Report

Honor Ridge Academy

Prepared For:

Honor Ridge Academy

342 Madison Hill Road
Clark, NJ 07066

Performed By:

AERO Environmental Services Inc.

275 Rt 10 East, 220-306 Succasunna, NJ 07876

Report Date

June 1, 2022

AERO ENVIRONMENTAL SERVICES, INC.

ENGINEERING • CONSULTING • TESTING

275 Route 10 East, Suite 220-306 Succasunna, NJ 07876

Telephone (973) 920-9061

Fax (973) 529-0335

June 1, 2022

Mr. Thomas Celli
Director
Honor Ridge Academy
342 Madison Hill Road
Clark, NJ 07066

Re: Lead in Drinking Water Report - First Draw Sampling

Dear Mr. Celli

Enclosed is the final report for the Lead in Drinking Water-First Draw Sampling & Analysis conducted at the Honor Ridge Academy.

A total of seven (7) first draw samples, including one (1) field blank, were collected while at the facility. All first draw samples were analyzed.

All samples were labeled with a unique identification number and transported to EMSL Analytical for analysis for lead in drinking water using EPA Method 200.8

Based on laboratory analysis of the samples analyzed, **zero (0)** samples exceeded the action limit. No remedial action is required. All lead results were below the 15 µg/L New Jersey Action Level.

If you have any questions, please contact me at directly at 973-920-9061.

Sincerely,



Michael Berta, CSP, CPEA
AERO Environmental Services Inc.
mberta@aeroenvironmental.net

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1.0 INTRODUCTION

AERO Environmental Services, Inc. was contracted by the Honor Ridge Academy to conduct Lead in Drinking Water Sampling at one (1) School. The water sampling was performed on April 13, 2022, by Michael Berta of AERO Environmental Services Inc. All samples were analyzed by EMSL Analytical Inc. at 200 Route 130 North, Cinnaminson, NJ 08077, a New Jersey certified Lead in Drinking Water testing facility.

The purpose of the sampling was to collect first draw drinking water samples from all currently active drinking water locations in the facility and have them analyzed for lead concentration levels.

The initial first draw samples were taken from all currently active drinking water outlets and food preparation outlets in the facility. These samples determine the lead content of water sitting in water outlets that are used for drinking or cooking within the facility.

Lead in water can originate from the outlet fixture or plumbing upstream of the outlet fixture (e.g., pipe, joints, valves, fittings etc.). Lead can also enter a facility through the drinking water system. Sample results are then compared to assist in determining the sources of lead contamination and the appropriate corrective measures.

If initial first draw test results reveal lead concentrations greater than 15 µg/l (ppb) in a 250 mL sample for a given outlet, a follow-up flush testing is required to determine if the lead contamination results are from the fixture or from interior plumbing.

All samples were collected in a 250mL wide mouth plastic container that was prepackaged by the analytical laboratory. At each sample location, the first draw sample was taken after it was determined that the water had been standing in the plumbing system for greater than eight hours but less than forty-eight hours.

-END OF SECTION-

2.0 SUMMARY OF FINDINGS

First Draw samples were collected and submitted for lead analysis. The table(s) below shows the concentration of lead (parts per billion or microgram per liter) at each school location sampled. Sampling conducted followed NJDEP protocols, and all samples were submitted to EMSL Analytical under a completed Chain of Custody Form.

Table 1: Honor Ridge Academy

Date	Location Description	Sample Location Code	First Draw Result (ppb)	Action Ppb	Over Limit Yes/No
04/13/22	Kitchen Sink	HA-KO-Kitchen	7.74	15	No
04/13/22	Hallway by Boiler Rm Chiller	HA-FC-HW by Boiler Rm	5.08	15	No
04/13/22	Hallway Rm 6 Chiller	HA-FC-HW by Rm 6	2.28	15	No
04/13/22	Gym Kitchen Sink	HA-KO-Gym Kitchen	10.9	15	No
04/13/22	Gym Chiller Left	HA-FC-Gym-01	2.32	15	No
04/13/22	Gym Chiller Right	HA-FC-Gym-02	ND	15	No
04/13/22	Field Blank	HA-Blank	ND	15	No

3.0 SAMPLING AND ANALYSES

The following guidance documents were followed for all sampling:

1. N.J.A.C. 6A:26-12.4 Safe Drinking Water
2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"
3. Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water."

Seven (7) first draw samples, including one (1) field blank, were collected while at the facility. All first draw samples were analyzed.

All samples were labeled with a unique identification number and transported to EMSL Analytical for analysis for lead in drinking water using EPA Method 200.8.

4.0 CONCLUSION

- Based on laboratory analysis of the samples analyzed, **zero (0)** samples exceeded the action limit.
- No remedial action is required.
- All lead results were below the 15 µg/L New Jersey Action Level.

APPENDIX 1

Honor Ridge Academy

LABORATORY ANALYSIS WATER SAMPLING RESULTS WITH CHAIN OF CUSTODY



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

Michael Berta
AERO Environmental Services, Inc
275 Route 10 East
Suite 220-306
Succasunna, NJ 07876

5/5/2022

Phone: (973) 920-9061

Fax: (973) 529-0335

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/20/2022. The results are tabulated on the attached data pages for the following client designated project:

Honor Ridge Academy DW 1st Draw

The reference number for these samples is EMSL Order #012206457. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Owen McKenna, Chemistry Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.

NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012206457

CustomerID: AERO50

CustomerPO:

ProjectID:

Attn: **Michael Berta**
AERO Environmental Services, Inc
275 Route 10 East
Suite 220-306
Succasunna, NJ 07876

Phone: (973) 920-9061
Fax: (973) 529-0335
Received: 4/20/2022 09:00 AM

Project: **Honor Ridge Academy DW 1st Draw****Analytical Results**

Client Sample Description HA-1
HA-KO-KITCHEN **Collected:** 4/13/2022 9:30:00 AM **Lab ID:** 012206457-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	7.74	1.00 µg/L	5/4/2022 VD	5/4/2022 19:47 VD

Client Sample Description HA-2
HA-FC-HW NY BOILER ROOM **Collected:** 4/13/2022 9:33:00 AM **Lab ID:** 012206457-0002

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	5.08	1.00 µg/L	5/4/2022 VD	5/4/2022 19:51 VD

Client Sample Description HA-3
HA-FC-HW BY RM 6 **Collected:** 4/13/2022 9:35:00 AM **Lab ID:** 012206457-0003

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	2.28	1.00 µg/L	5/4/2022 VD	5/4/2022 19:56 VD

Client Sample Description HA-4
HA-KO GYM KITCHEN **Collected:** 4/13/2022 9:40:00 AM **Lab ID:** 012206457-0004

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	10.9	1.00 µg/L	5/4/2022 VD	5/4/2022 19:58 VD

Client Sample Description HA-5
HA-FC-GYM-01 **Collected:** 4/13/2022 9:42:00 AM **Lab ID:** 012206457-0005

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	2.32	1.00 µg/L	5/4/2022 VD	5/4/2022 19:59 VD

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order: 012206457

CustomerID: AERO50

CustomerPO:

ProjectID:

Attn: **Michael Berta**
AERO Environmental Services, Inc
275 Route 10 East
Suite 220-306
Succasunna, NJ 07876

Phone: (973) 920-9061
Fax: (973) 529-0335
Received: 4/20/2022 09:00 AM

Project: **Honor Ridge Academy DW 1st Draw****Analytical Results**

Client Sample Description HA-6
HA-FC-GYM-02
Collected: 4/13/2022
9:45:00 AM
Lab ID: 012206457-0006

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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METALS

200.8	Lead	ND	1.00 µg/L	5/4/2022 VD	5/4/2022 20:01 VD
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Client Sample Description HA-7
HA-BLANK
Collected: 4/13/2022
9:50:00 AM
Lab ID: 012206457-0007

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
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METALS

200.8	Lead	ND	1.00 µg/L	5/4/2022 VD	5/4/2022 20:02 VD
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Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

012206457

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: 856-858-4800
FAX: 856-786-5971

Company : AERO Environmental Services Inc.		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 275 Rt 10 East, Suite 220-306		Third Party Billing requires written authorization from third party	
City: Succasunna	State/Province: NJ	Zip/Postal Code: 07876	Country: USA
Report To (Name): Michael Berta		Telephone #: 973 920 9061	
Email Address: mberta@aeroenvironmental.net		Fax #: 973 529 0335	Purchase Order:
Project Name/Number: Honor Ridge Academy DW 1st Draw		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: NJ		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour
<input type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input checked="" type="checkbox"/> 2 Week
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide			
Matrix	Method	Instrument	Reporting Limit
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe
	SW846-6010B or C	ICP-AES	1.0 µg/wipe
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved <input checked="" type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter
Other:			
Name of Sampler: Michael Berta		Signature of Sampler: <i>[Signature]</i>	
Sample #	Location	Volume/Area	Date/Time Sampled
HA-1	HA-KO-KITCHEN	250 ml	04/13/22 930
HA-2	HA-FC-HW BY BOILER ROOM	250 ml	04/13/22 933
HA-3	HA-FC HW BY RM 6	250 ml	04/13/22 935
HA-4	HA-KO-GYM KITCHEN	250 ml	04/13/22 940
HA-5	HA-FC-GYM-01	250 ml	04/13/22 942
Client Sample #'s	HA-1 - HA-7	Total # of Samples:	7
Relinquished (Client): <i>[Signature]</i>	Date: 4/19/22	Time: 1300	
Received (Lab): <i>[Signature]</i>	Date: 4.19.22	Time: 113 PM	
Comments: 4/20/22 HNO ₃ added 9:22 a CPCV 4/19/22 7:40 PM Elynn 4/20/22 9 am			



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY
EMSL ORDER ID *(Lab Use Only):*

EMSL ORDER ID (Lab Use Only):

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
HA-6	HA-FC-GYM-02	250 ml	04/13/22 945
HA-7	HA-BLANK	250 ml	04/13/22 950
Comments/Special Instructions:			