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DRINKING WATER SAMPLING REPORT

Green Hill Elementary School 69 Mackerley Road, Greendell, New Jesrey 07839

Report Date September 12, 2024

Partner Project No. 23-431380.1

Prepared for: Green Hill Elementary School



PARTNER

September 12, 2024

Michael Housel Green Hill Elementary School 69 Makerly Road, P.O. Box 14 Greendell, NJ 07839

Subject: Drinking Water Sampling Report Green Hill Elementary School 69 Mackerly Road Greendell, New Jersey 07839 Partner Project No. 23-431380.1

Dear Mr. Housel,

Partner Engineering and Science, Inc. (Partner) is pleased to provide the *Drinking Water Sampling* of the abovementioned address (the "Subject Property"). This sampling event was performed in general conformance with the scope and limitations as detailed in our fee proposal. This inspection included a site reconnaissance as well as sampling and analysis. An assessment was made, conclusions stated, and recommendations outlined, as required.

This survey included a site reconnaissance as well as sampling and analysis. An assessment was conducted, conclusions stated, and recommendations outlined, as necessary.

We appreciate the opportunity to provide industrial hygiene services to Green Hill Elementary School. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (908) 497-8904.

Sincerely,

Partner Engineering and Science, Inc.

Wrand Gaves

Dan Bracey, CIH, CSP, CHMM Technical Director Industrial Hygiene & Health and Safety Services

EXECUTIVE SUMMARY

Partner presents our report for this Drinking Water Sampling Report of Green Hill Elementary School located at 69 Mackerly Rd, Greendell on August 7, 2024. Samples were collected according to the "New Jersey Department of Education N.J.A.C. 6A:26" requirements for testing of lead in New Jersey Schools and the "USEPA 3Ts for Reducing Lead in Drinking Water in Schools" recommendations, as well as the Safe Drinking Water Act of 1974.

The first sample at each fixture was a "first draw" which was collected directly from the fixture without letting the water run or flush. The second sample was collected after letting the water run (flush) for thirty seconds. This sample evaluates the lead in water from the water purveyor and the pipes outside the building. The samples collected were analyzed by EMSL Analytical Inc. located in Cinnaminson, New Jersey for analysis of lead content using USEPA Method 200.8 for lead in drinking water. The action level for lead has been set at 15 parts per billion (ppb). According to the USEPA, given present technology and resources, this level is the lowest level to which water systems can reasonably be required to control this contaminant should it be present in drinking water.

Sample analysis indicated that measured lead concentrations did not exceed the USEPA Action Level of 15 ppb for lead at Green Hill Elementary School. No further action is recommended at this time. If additional outlets are added, or changes to existing outlets occur, the Client must perform lead sampling for those outlets.



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Appendices

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Appendix A:	Table 1 – Analytical Results Table

- Appendix B: Laboratory Analysis and Chain-of-Custody
- Appendix C: Sample Location Diagram



1.0 INTRODUCTION

1.1 Subject Property Description

Address:	69 Mackerley Road, Greendell, NJ 07839
Nature of Use:	School
Walk-Through Inspector:	Gianna Sandull
Walk-Through Date:	July 18, 2024
Sampling Conducted By:	Gianna Sandull
	Juan Jimenez
Sampling Date :	August 7, 2024

1.2 Purpose and Scope

The purpose of this drinking water sampling event was to sample and analyze drinking water for a determination of lead content for comparison with the USEPA Action Level as defined by the National Primary Drinking Water Regulations (NPDWR - 40 CFR Chapter I, Part 141), in addition to the "New Jersey Department of Education N.J.A.C. 6A:26" requirements for testing of lead in New Jersey Schools and the "USEPA 3Ts for Reducing Lead in Drinking Water in Schools". The NPDW set a Maximum Contaminant Level Goal (MCLG) for each listed contaminant, which identifies a level of that contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals. The MCLG for lead has been set at zero ppb. Since lead contamination generally occurs from corrosion of onsite lead pipes, or lead-based solder on fittings and fixtures, it cannot be directly detected or removed by the municipal water system. Instead, the USEPA is requiring municipal water systems to control the corrosiveness of their water if the level of lead at the tap exceeds an Action Level.

The action level for lead has been set at 15 parts per billion (ppb). According to the NPDWR Lead and Copper Rule (LCR), given present technology and resources, this level is the lowest level to which water systems can reasonably be required to control this contaminant should it be present in drinking water.



2.0 METHODOLOGY

Select drinking water samples were collected according to the "New Jersey Department of Education N.J.A.C. 6A:26" requirements for testing of lead in New Jersey Schools and the "USEPA 3Ts for Reducing Lead in Drinking Water in Schools" recommendations, as well as the LCR Monitoring requirements for lead in tap water (40 CFR Part 141, Subpart I, § 141.86(b)).

The first sample at each fixture was a "first draw" which was collected directly from the fixture without letting the water run or flush. The second sample was collected after letting the water run (flush) for thirty seconds. This sample evaluates the lead in water from the water purveyor and the pipes outside the building. Ideally, the water had not been used for the past eight hours prior to sampling and not longer than 48 hours prior to sampling. Partner made a reasonable effort to determine whether the stagnation preconditions were able to be met prior to conducting sampling.

Sample bottles were provided by EMSL Analytical, Inc. located in Cinnaminson, New Jersey with an appropriate preservative for lead in drinking water sampling. After collection, sample bottles were labeled with a unique identifier and transferred under chain of custody conditions to EMSL Analytical, Inc. located in Cinnaminson, New Jersey for analysis by USEPA Method 200.8. The laboratory results and chain of custody are contained in Appendix B.





3.0 ANALYTICAL RESULTS / CONCLUSIONS AND RECOMMENDATIONS

During the course of this site visit, Partner collected water samples at 15 location. Partner did not attempt to disassemble mechanical equipment, open plumbing pipe chases, or assess materials within wall voids. Sample names and their respective locations were updated from the 2021 sampling event based on relevant known plumbing information as provided by the Green Hill Elementary School and the site guide.

Partner attempted to collect samples from the following outlets; however, based upon the condition of the outlet and recommendations from the site guide, a sample could not be collected at the following locations: GHE-BF-10 and GHE-WC-5.

A total of 30 drinking water samples were collected from Green Hill Elementary School on August 7, 2024. A total of 15 samples were analyzed. Table 1 lists the samples that exceeded the USEPA Action Level. The analytical results for all samples collected are listed in Table 2 in Appendix A. Sample locations are depicted on the diagram included in Appendix C.

Table 1: USEPA Analytical Results							
Sample Name	Location	Results (ppb)					
GHE-WF-1	Outside Gym	ND					
GHE-BF-2	Outside Gym	ND					
GHE-S-3	Cafeteria	8.14					
GHE-WF-4	Outside 214	2.39					
GHE-S-6	Nurse	8.07					
GHE-S-7	Main Office	ND					
GHE-S-8	Central Office	ND					
GHE-S-9	Across 104	ND					
GHE-S-11	304 Faculty	ND					
GHE-WF-12	Across 318	1.42					
GHE-WF-13	Across 307	ND					
GHE-WF-14	Across 307	ND					

Drinking Water Sampling Report-Green Hill Elementary School Project No. 23-431380.1 September 12, 2024 Page 3



Table 1: USEPA Analytical Results						
Sample Name	Location	Results (ppb)				
GHE-WF-15	Across 307	ND				
GHE-WF-16	Across 307	ND				
GHE-S-17	Room 204	ND				

ND= Not detected. Lead levels not detectred at the reporting limit (1 ppb) 1 ppb = 1 ug/L BOLD = Exceedeances above USEPA Action Level of 15 ppb

3.1 Conclusions and Recommendations

Sample analysis indicated that measured lead concentrations did not exceed the USEPA Action Level of 15 ppb for lead at No further action is recommended at this time. If additional outlets are added, or changes to existing outlets occur, the Client must perform lead sampling for those outlets.



4.0 LIMITING CONDITIONS

No warranties expressed or implied, are made by Partner or its subcontractor, EMSL Analytical, Inc., or their employees as to the use of any information, apparatus, product, or process disclosed in this report. Every reasonable effort has been made to assure correctness. This survey is limited by the scope discussed by the client. It was prepared for the sole use and benefit of the Client. Neither this report nor any of the information contained herein shall be used or relied upon for any purpose by any persons or entities other than the Client.

Property and climate conditions, as well as local, state, and federal regulations, can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted industry assessment techniques and it is believed that the inferences made are reasonably representative of the property. Partner and its subcontractor EMSL Analytical, Inc. and their employees/representatives bear no responsibility for the actual condition of the structure or safety of this site pertaining to water quality contamination regardless of the actions taken by the inspection team or the client. Partner makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted assessment practices applicable at the time and location of the study.



5.0 SIGNATURES OF PROFESSIONALS

Partner has performed lead-in-drinking water sampling on the property at Green Hill Elementary School, 69 Mackerley Road, Greendell, NJ in general conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

Prepared By:

Partner Engineering and Science, Inc.

Juan Jimens

Juan Jimenez Industrial Hygienist

Reviewed by:

Naal Car

Daniel Bracey, CIH, CSP, CHMM Technical Director



APPENDIX A: TABLE 2 – ANALYTICAL RESULTS TABLE



Table 2: Analytical Results							
Sample Name	Location	Results (ppb)					
GHE-WF-1	Outside Gym	ND					
GHE-BF-2	Outside Gym	ND					
GHE-S-3	Cafeteria	8.14					
GHE-WF-4	Outside 214	2.39					
GHE-S-6	Nurse	8.07					
GHE-S-7	Main Office	ND					
GHE-S-8	Central Office	ND					
GHE-S-9	Across 104	ND					
GHE-S-11	304 Faculty	ND					
GHE-WF-12	Across 318	1.42					
GHE-WF-13	Across 307	ND					
GHE-WF-14	Across 307	ND					
GHE-WF-15	Across 307	ND					
GHE-WF-16	Across 307	ND					
GHE-S-17	Room 204	ND					

ND= Not detected. Lead levels not detected above the reporting limit (0.3430 ppb)

1 ppb = 1 ug/L

BOLD = Exceedances above USEPA Action Level 15 ppb



APPENDIX B: LABORATORY ANALYSIS AND CHAIN-OF-CUSTODY





200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

Attention: Angelica Rosa Perez	Project Name:	24-431380 / Green Hill Elementary
Partner Engineering and Science, Inc. [32PRTN78G]		
611 Industrial Way West		
Eatontown, New Jersey 07724	Customer PO:	
(732) 403-5869	EMSL Sales Rep:	Christopher Brandt
arosaperez@partnersi.com	Received:	08/07/2024 12:30
	Reported:	08/26/2024 18:28

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: GHE-WF-1/Outside Gym		Lim	s Refer	ence ID:	AC26469-01	Matrix: Drinking	g Water	San	npled: 08/07/24 07:48:00
Metals Lead	ND		1	1.00	µg/L	08/19/24 13:09	08/22/24 14:22	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-BF-2/Outside Gym		Lim	s Refer	ence ID:	AC26469-03	Matrix: Drinking	g Water	San	1pled: 08/07/24 07:49:00
Metals Lead	ND		1	1.00	μg/L	08/19/24 13:09	08/22/24 14:25	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-S-3/Cafeteria		Lim	s Refer	ence ID:	AC26469-05	Matrix: Drinking	g Water	Sam	pled: 08/07/24 07:55:00
Metals Lead	8.14		1	1.00	µg/L	08/19/24 13:09	08/22/24 14:33	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-WF-4/Outisde 214		Lim	s Refer	ence ID:	AC26469-07	Matrix: Drinking	g Water	San	pled: 08/07/24 07:57:00
Metals	2.39		1	1.00	μg/L	08/22/24 14:37	08/26/24 12:59	PL	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-S-6/Nurse		Lim	s Refer	ence ID:	AC26469-09	Matrix: Drinking	g Water	San	npled: 08/07/24 08:00:00
Metals	8.07		1	1.00	µg/L	08/22/24 14:37	08/26/24 13:05	PL	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-S-7/Main Office		Lim	s Refer	ence ID:	AC26469-11	Matrix: Drinking	g Water	San	npled: 08/07/24 08:02:00
Metals Lead	ND		1	1.00	µg/L	08/22/24 14:37	08/26/24 13:06	PL	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-S-8/Central Office		Lim	s Refer	ence ID:	AC26469-13	Matrix: Drinking	g Water	Sam	npled: 08/07/24 08:04:00
Metals Lead	ND		1	1.00	µg/L	08/22/24 14:37	08/26/24 13:08	PL	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-WF-9/Across 104		Lim	s Refer	ence ID:	AC26469-15	Matrix: Drinking	g Water	San	npled: 08/07/24 08:07:00
Metals	ND		1	1.00	µg/L	08/19/24 13:18	08/21/24 20:01	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-S-11/304 Faculty		Lim	s Refer	ence ID:	AC26469-17	Matrix: Drinking	g Water	San	npled: 08/07/24 08:19:00
Metals Lead	ND		1	1.00	μg/L	08/19/24 13:18	08/21/24 20:03	LXK	EPA 200.8 (DA)/EPA 200.8



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

EMSL Order ID: 012426469 LIMS Reference ID: AC26469 EMSL Customer ID: 32PRTN78G

Attention:	Angelica Rosa Perez	Project Name:	24-431380 / Green Hill Elementary
	Partner Engineering and Science, Inc. [32PRTN78G]		
	611 Industrial Way West		
	Eatontown, New Jersey 07724	Customer PO:	
	(732) 403-5869	EMSL Sales Rep:	Christopher Brandt
	arosaperez@partnersi.com	Received:	08/07/2024 12:30
		Reported:	08/26/2024 18:28

Analytical Results

(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analys Initial	st Prep /Analytical s Method
Sample: GHE-WE-12/Across 318		Lime	Pofor	anca ID:	AC26469-19	Matrix: Drinki	ng Water		Sampled: 08/07/24 08:21:00
		Lina	Neien	ence ib.	A020403-13		ng water		Gampled. 00/07/24 00.21.00
Metals									
Lead	1.42		1	1.00	µg/L	08/19/24 13:18	08/21/24 20:05	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-WF-13/Across 307		Lims	Refer	ence ID:	AC26469-21	Matrix: Drinki	ng Water		Sampled: 08/07/24 08:25:00
Metals									
Lead	ND		1	1.00	µg/L	08/19/24 13:18	08/21/24 20:07	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-WF-14/Across 307		Lims	Refer	ence ID:	AC26469-23	Matrix: Drinki	ng Water		Sampled: 08/07/24 08:26:00
Metals									
Lead	ND		1	1.00	µg/L	08/19/24 13:18	08/21/24 20:09	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-WF-15/Across 307		Lims	Refer	ence ID:	AC26469-25	Matrix: Drinki	ng Water		Sampled: 08/07/24 08:27:00
Metals									
Lead	ND		1	1.00	µg/L	08/19/24 13:18	08/21/24 20:11	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-WF-16/Across 307		Lims	Refer	ence ID:	AC26469-27	Matrix: Drinki	ng Water		Sampled: 08/07/24 08:28:00
Metals									
Lead	ND		1	1.00	µg/L	08/19/24 13:18	08/21/24 20:13	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: GHE-S-17/Room 204		Lims	Refer	ence ID:	AC26469-29	Matrix: Drinki	ng Water		Sampled: 08/07/24 08:16:00
Metals									
Lead	ND		1	1.00	μg/L	08/19/24 13:18	08/21/24 20:19	LXK	EPA 200.8 (DA)/EPA 200.8



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	(732) 403-5869	EMSL Sales Rep:	Christopher Brandt
	arosaperez@partnersi.com	Received:	08/07/2024 12:30
		Reported:	08/26/2024 18:28

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.8 in Drinking Water	
Lead	NJDEP

List of Certifications

Code	Description	Number	Expires
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024
California ELAP	California Water Boards	1877	06/30/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024

Please see the specific Field of Testing (FOT) on <u>www.emsl.com <http://www.emsl.com></u> for a complete listing of parameters for which EMSL is certified.



200 Route 130, Cinnaminson, NJ, 08077 Telephone: 856-858-4800 Fax:856-786-5974 EMSL-CIN-01

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		Reported:	08/26/2024 18:28

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Ch Man to

Owen McKenna Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

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Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

Cinnaminson, NJ 08077				
PHONE:	1-800-220-3675			
EMAIL .	c@emsl.com			

Company Name: Partner Engineering and Science, Inc. Company Name: Partner Engineering and Science, I Company Name: Angelica Rosaperez Street Address: 611 Industrial Way West Suite A City, State, Zip: Eatontown NJ Phone: 7323801700 Country: US Email(s) for Report: arosaperez@partneresi.com Project Information Project Name/No: 24-431380 Cyceo Hully, Elemeer of Ward	Inc. ^{ny:} US
Company name: Partner Engineering and Science, Inc. Figure 1 Contact Name: Angelica Rosaperez Billing Contact: Angelica Rosaperez Street Address: 611 Industrial Way West Suite A Street Address: 611 Industrial Way West, Suite A City, State, Zip: Eatontown NJ 07724 Phone: 7323801700 Figure 1 Email(s) for Report: arosaperez@partneresi.com Project Information	Inc. ^{17:} US
Contact Name: Angelica Rosaperez Street Address: 611 Industrial Way West Suite A City, State, Zip: Eatontown Phone: 7323801700 Email(s) for Report: arosaperez@partneresi.com Project Information Project Information Project Address: City, State, Zip: Email(s) for Report: arosaperez@partneresi.com	ry: US
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MSL LIMS Project ID:	on:
applicable, EMSL will samples collected: NJ Commercial (Taxable) Resider	ntial (Non-Taxable)
ampled By Name: Sampled By Signature:	-20
Gianna Sandull afected in shipment	JKI
3 Hour 6 Hour 24 Hour 32 Hour 48 Hour 72 Hour 96 Hour 1 Week	2 Week
Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am. MATRIX METHOD INSTRUMENT REPORTING LIMIT SEL	ECTION
HIPS C AUGUST C COUPERING SW 846-7000B Flame Atomic Absorption 0.006% (ouppin)	
Reporting Limit based on a minimum SW 846-6010D* ICP-OES 0.0004% (4ppm)	
.20g sample weight Line Atomic Absorption Aug/filter	
IR NIOSH 7300M / NIOSH 7303M ICP-OES 0.5µg/filter	
NIOSH 7300M / NIOSH 7303M ICP-MS 0.05µg/filter	
VIPE ASTM NON-ASTM SW 846-7000B Flame Atomic Absorption 10ug/wipe	
f no box is checked, non-ASTM Wipe is serumed	
SW 846-1311 / 7000B / SM 3111B Flame Atomic Absorption 0.4 mg/L (ppm)	
CLP SW 846-1311 / SW 846-6010D* ICP-OES 0.1 mg/L (ppm)	
SW 846-1312 / 7000B / SM 3111B Flame Atomic Absorption 0.4 mg/L (ppm)	
SW 846-1312 / SW 846-6010D* ICP-OES 0.1 mg/L (ppm)	
22 CCR App. II, 7000B Flame Atomic Absorption 40mg/kg (ppm)	
22 CCR App. II, SW 846-6010D* ICP-OES 2mg/kg (ppm)	
22 CCR App. II, 7000B Flame Atomic Absorption 0.4 mg/L (ppm)	
22 CCR App. II, SW 846-6010D* ICP-OES 0.1 mg/L (ppm)	
Soil Siv 846-7000B Flame Admic Adsorption Forming (ppm)	
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm)	
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Jnpreserved	
SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Unpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Preserved with HNO3 PH<2	
Wastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Unpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Preserved with HNO3 PH<2	
Wastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Jnpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Orinking Water EPA 200.5 ICP-OES 0.003 mg/L (ppm) Jnpreserved EPA 200.8 ICP-MS 0.001 mg/L (ppm)	
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Jnpreserved	
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Unpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Unpreserved EPA 200.5 ICP-OES 0.003 mg/L (ppm) Unpreserved EPA 200.8 ICP-MS 0.001 mg/L (ppm) Unpreserved with HNO3 PH<2	
Astewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Inpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) rinking Water EPA 200.5 ICP-OES 0.003 mg/L (ppm) Inpreserved EPA 200.8 ICP-MS 0.001 mg/L (ppm) SP/SPM Filter 40 CFR Part 50 ICP-OES 12 µg/filter	
Wastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Jnpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Orinking Water EPA 200.5 ICP-OES 0.003 mg/L (ppm) Jnpreserved EPA 200.8 ICP-MS 0.001 mg/L (ppm) Sepreserved with HNO3 PH<2	Sampled
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Unpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Drinking Water EPA 200.5 ICP-OES 0.003 mg/L (ppm) Jupreserved EPA 200.8 ICP-MS 0.001 mg/L (ppm) Jupreserved EPA 200.8 ICP-MS 0.001 mg/L (ppm) Jupreserved with HNO3 PH<2	Sampled
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Unpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Orinking Water EPA 200.5 ICP-OES 0.003 mg/L (ppm) Unpreserved EPA 200.8 ICP-OES 0.001 mg/L (ppm) Optimizer EPA 200.8 ICP-OES 0.001 mg/L (ppm) Optimizer EPA 200.8 ICP-OES 12 µg/filter Sample Number Sample Location Volume / Area Date / Time GAE OUTSIDE GYM 250 mL 8/7 7	Sampled
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Unpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Preserved with HNO3 PH<2	Sampled
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Unpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Preserved with HNO3 PH<2	Sampled
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Inpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Vinking Water EPA 200.5 ICP-OES 0.003 mg/L (ppm) Inpreserved EPA 200.8 ICP-OES 0.003 mg/L (ppm) Verserved with HNO3 PH<2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Verserved with HNO3 PH<2	≥ Sampled 2
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Inpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) PH<2	≥ Sampled ⇒ Sampled ⇒ U8 ⇒ U8 ⇒ U8 ⇒ U8 ⇒ U8 ⇒ U9 ⇒ U9 ⇒ U9
VastewaterSM 3111B / SW 846-7000BFlame Atomic Absorption $0.4 mg/L (ppm)$ InpreservedEPA 200.7ICP-OES $0.020 mg/L (ppm)$ Prinking WaterEPA 200.5ICP-OES $0.003 mg/L (ppm)$ InpreservedEPA 200.8ICP-MS $0.001 mg/L (ppm)$ ImpreservedICP-OES $0.001 mg/L (ppm)$ ICP-OESImpreservedICP-MS $0.001 mg/L (ppm)$ ICP-OESImpreservedICP-OESICP-OES $12 \mu g/filter$ Sep/SPM Filter40 CFR Part 50ICP-OES $12 \mu g/filter$ Sample NumberSample LocationVolume / AreaDate / TimeGHE - WF - 1OUTSICLE GYM260 mL $8/7$ GHE - BF - 2FICP-OESICP-OESICP-OESGHE - BF - 2FICP-OESICP-OESICP-OESGHE - S - 3CoCP terricyICP-OESICP-OES	Sampled 2:49 2:49 2:49 2:49 2:49 2:49 2:49 2:49 2:49 2:49 2:49
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption $0.4 \text{ mg/L}(ppm)$ Inpreserved EPA 200.7 ICP-OES $0.020 \text{ mg/L}(ppm)$ reserved with HNO3 PH<2 EPA 200.5 ICP-OES $0.001 \text{ mg/L}(ppm)$ Inpreserved EPA 200.8 ICP-MS $0.001 \text{ mg/L}(ppm)$ ICP-MS SP/SPM Filter 40 CFR Part 50 ICP-OES $12 \mu g/filter$ Sample Number Sample Location Volume / Area Date / Time GHE - WF - 1 OUtSide Gym 250 mL $8/7$ 7 GHE - BF - 2F ICP-MS ICP-MS ICP-MS ICP-MS GHE - BF - 2F GutSide Gym 250 mL $8/7$ 7 GHE - BF - 2F ICP-MS ICP-MS ICP-MS ICP-MS GHE - S - 3 Confectorion Volume / Area Date / Time ICP-MS GHE - S - 3 Confectorion Volume / Area Date / Time ICP-MS Gate - GF - 2F ICP-MS ICP-MS ICP-MS ICP-MS Gate - BF - 2F ICP-MS ICP-MS ICP-MS ICP-MS Gate - S - 3 C	Sampled 2:48 2:48 2:49 2:49 2:55
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Inpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Preserved with HNO3 PH-2 EPA 200.5 ICP-OES 0.001 mg/L (ppm) Inpreserved EPA 200.8 ICP-OES 0.001 mg/L (ppm) ICP-OES Served with HNO3 PH-2 40 CFR Part 50 ICP-OES 12 µg/filter Shample Number Sample Location Volume / Area Date / Time GHE - WF - 1 OUTSICE GYM 260 mL 8/ 7 7 GHE - WF - 1F GALE - BF - 2F F 7 7 GALE - BF - 2F CaCEELEYICK Sample Condition Upon Receipt: 7 Wethod of Shipment: Date/Time Parabined br: 7	■ sampled → 48 → 48 → 48 → 48 → 48 → 48 → 48 → 49 → 49 → 49
Nastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Jpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Preserved with HN03 PH<2	≥ Sampled 2.48 2.49 2.40
Nastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Jpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Preserved with HN03 PH<2	≥ Sampled 2.48 2.49 2.40 2.400
Wastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Jpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Preserved with HN03 PH-2 EPA 200.5 ICP-OES 0.003 mg/L (ppm) Jpreserved with HN03 PH-2 EPA 200.5 ICP-OES 0.001 mg/L (ppm) Jpreserved with HN03 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Veserved with HN03 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Veserved with HN03 PH-2 EPA 200.8 ICP-OES 12 µg/filter Sample Number Sample Location Volume / Area Date / Time GHE - WF - 1 OUtSidle GYM 260 mL 8/7 7 GHE - BF - 2F Cafeterius 7 7 7 GHE - S - 3 Cafeterius Sample Condition Upon Receipt: 7 7 Veltod of Shipment: Date/Time: Received by: 0 7 0 Veltod of Shipment: Date/Time: Received by: 0 0 7 0	2400 2400
Wastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Inpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Preserved with HN03 PH-2 EPA 200.5 ICP-OES 0.003 mg/L (ppm) Inpreserved with HN03 PH-2 EPA 200.6 ICP-OES 0.003 mg/L (ppm) Inpreserved with HN03 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Served with HN03 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Preserved with HN03 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Served with HN03 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Served with HN03 PH-2 40 CFR Part 50 ICP-OES 12 µg/filter . Served with HN03 PH-2 Sample Location Volume / Area Date / Time GHE - WF - 1 OLASICLE GYM 260 mL 8/7 7 GHE - BF - 2 GALE - S - 3 CALECARTIN Sample Condition Upon Receipt: Caleofrithe Relinquished by: Date/Time: Recelved	2400 2400 01 2 39
Vastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Inpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) Vinking Water EPA 200.5 ICP-OES 0.003 mg/L (ppm) Inpreserved with HNO3 PH-2 EPA 200.5 ICP-OES 0.003 mg/L (ppm) Inpreserved with HNO3 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Served with HNO3 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Served with HNO3 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) Served with HNO3 PH-2 EPA 200.8 ICP-OES 12 µg/filter 1/2 Served with HNO3 PH-2 Semple Location Volume / Area Date / Time GHE - WF - 1 OutSidle GYM 250 mL 8/7 7 GHE - BF - 2 GATE - S GATE - S 7 7 GHE - BF - 2 F Cateetery U Sample Condition Upon Receipt: Totaler/Time telinquished by: Date/Time: Received by: Date/Time Date/Time <tr< td=""><td>2400 2400 01 240</td></tr<>	2400 2400 01 240
Kastewater SM 3111B / SW 846-7000B Flame Atomic Absorption 0.4 mg/L (ppm) Inpreserved EPA 200.7 ICP-OES 0.020 mg/L (ppm) reserved with HN03 PH-2 EPA 200.5 ICP-OES 0.003 mg/L (ppm) inpreserved with HN03 PH-2 EPA 200.5 ICP-OES 0.000 mg/L (ppm) inpreserved with HN03 PH-2 EPA 200.8 ICP-OES 0.001 mg/L (ppm) SP/SPM Filter 40 CFR Part 50 ICP-OES 12 µg/filter . Sample Number Sample Location Volume / Area Date / Time GHE - WF - 1 OUTSICE GY M 250 mL 8/ 7 7 GHE - BF - 2F	Image: Signal state Image: Signal sta

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Lead Chain of Custody EMSL Order Number / Lab Use Only

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ditional Pages of the Chain of Custody are only necessary if needed for additional sample information Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

* IF the mith	al sample is above !	Sppb, analyze	the Flush
Sample Number	Sample Location	Volume / Area	Date / Time Sampled
GHE-S-3F	cafeteria	250 mL	8/7 7155
GHE-WF-4	outside 214	1	7:57
6HE-WF-4F	outside 214		7:68
GHE-WHE-6	nurse		8:00
61-18-5-6F	<i>V</i>		8:01
6HE-5-7	main office		50:3
6ME- 5-7F	\checkmark		8:03
6HE-5-8	Central office		8:04
GHE-5-8F	V		8:04
GHE-WF-9	Across 104		8:07
9 GHE-WF-QF			8:07
5- 6HE-BF-10			\$1.10%
6H2-BF-10F	\checkmark		BC/035
GHE-S-11	304 foculty		8:19
6HE-5-11F			8:19
GHE-WF-12	Across 318		8:21
GHE-WF-12F	\checkmark		8:21
6HE-WF-13	Across 307		8:25
6HE-WF-13F		An	8:25
GHE-WF-14			\$:26
GHE-WF-14F			8:26
GHE-UF-15			8:27
GHE-WF-15F			8:27
GHE-WF-16			8:28
GHE-WF-16F Method of Shipment:	Sample C	ondition Upon Receipt:	V 8:29
Relinquished by:	Date/Time: Received		Daterime
Polinguished hu	OM	MILLY	010004 807

AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.) L

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

	Lead C	Chain of Custody	EN	ISL Analytical, Inc.	
EMSL	EMSL Or	der Number / Lab Use Only			
EMSL ANALYTICAL, INC.	AC26469		Cir PH	naminson, NJ 08077 IONE: 1-800-220-3675	
Customer ID:	10	Billing ID:	E	MAIL: C@emsi.com	
Company Name: Do the on Fraction	arian and Caianaa Inc	Company Name:	uta en Ensta entre entre en		
Contact Name: A sealing D	ering and Science, Inc.	Billing Contact:	arther Engineering and	3 Science, Inc.	
Street Address: 611 Industrial V	Vay West Suite A	Street Address: 61	1 Industrial Way Wes	t, Suite A	
City, State, Zip: Eatontown	NJ 07724 Country: US	City, State, Zip: Ea	atontown NJ	07724 Country: US	
Phone: 7323801700		Phone: 73	323801700		
Email(s) for Report: arosaperez@	partneresi.com	Email(s) for Invoice:			
	P	roject Information			
oject 24-431380 Cove ev	LIII ELENDONTO		Purchase Order:		
ASL LIMS Project ID:	Fine Cicretto	US State where	State of Connecticut (CT) must	select project location:	
applicable, EMSL will vide)		samples collected: NJ	Commercial (Taxable)	Residential (Non-Taxable)	
Impled By Name:	Sampled By Signature:	, Aca		No. of Samples in Shipment 3 10	
Unumiter du	Tur	n-Around-Time (TAT)		star	
3 Hour 6 Hour	24 Hour 32 Hour	48 Hour 72 Hour	96 Hour	1 Week 2 Week	
Please ca MATRIX	all ahead for large projects and/or turnaround times 6 Hours METHOD	or Less. *32 Hour TAT available for select tests on INSTRUMENT	REPORTING LIMIT	SELECTION	
HIPS % by wt. pppm (mg/kg) mg/cm ²	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)		
Penorting Limit based on a minimum					
25g sample weight	SW 846-6010D*	ICP-OES	0.0004% (4ppm)		
	NIOSH 7082	Flame Atomic Absorption	4µg/filter		
R					
_	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter		
	NIOSH / 300M / NIOSH / 303M	ICP-MS	0.05µg/filter	<u> </u>	
	SW 846-7000B	Flame Atomic Absorption	10µg/wipe		
no box is checked, non-ASTM Wipe is sumed	SW 846-6010D*	ICP-OES	1.0µg/wipe		
CLP -	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)		
	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)		
PLP -	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)		
	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)		
rLC -	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)		
пс	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)		
	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)		
oil -	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)		
actourter	SW 846-6010D ⁻ SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)		
npreserved	301311187300 040-70008				
reserved with HNO3 PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)		
rinking Water	EPA 200.5	ICP-OES	0.003 mg/L (ppm)		
npreserved	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	1.00000	
SP/SPM Eiltor	40 CER Part 50	ICP-OES	12 µg/filter	R	
ther	40 01 11 11 10				
Sample Number	Sample Location		Volume / Area	Date / Time Sampled	
648-5-17	De	12	250 ml	8/7 5:16	
0112 -11	KOOM 2	51	2 SU INL	oft only	
GHE-S-17F	r		\checkmark	8:10	
ethod of Shipment:		Sample Condition Upon	Receipt:	-	
	Date/Time:	Received by:		ate/Time	
elinguished by:			$(\Lambda/)$	X. IUQU	
telinquished by:		00		0 1 1	
telinquished by: telinquished by:	Date/Time:	Received by:	Film:	ate/Time	
telinquished by: telinquished by: ontrolled Document - COC-25 Leed R16 4/19/2021	Date/Time: *6010C Available	Received.by:	Finsi P	ate/Time /29 /233	

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APPENDIX C: SAMPLE LOCATION DIAGRAM





