



EnviroVision
Consultants, Inc.

20-21 Wagaraw Road – Bldg. 35E, Fair Lawn, NJ 07410
PH (973) 636-9145 FAX (973) 636-9144
Email: Envirovision@optonline.net

CLIENT: Demarest Public Schools Project Number 21-332
PROJECT: Lead (Pb) in Water Sampling Demarest Middle School
ADDRESS: 568 Piermont Road, Demarest, NJ 07627
FIELD TECHNICIANS: Leonardo Bitondo REPORT DATE: September 14, 2021

As per your request, EnviroVision Consultants, Inc. was contracted by Demarest School District to conduct Lead (Pb) in water sampling at the Demarest Middle School on August 20, 2021. The sample locations, in addition to a unique sample location code was determined/assigned by school district personnel. The school district performed the proper flushing of outlets prior to sampling and EnviroVision was instructed to collect only first draw samples for this sampling event. The school district's corresponding flushing logs should be attached to this report.

The facility was closed at the time of sampling in order to prevent occupants from utilizing any water outlets. After flushing, the water in the facility must remain motionless in the plumbing fixtures for a minimum of 8 hours, but no more than 48 hours. Cold water samples were collected in pre-cleaned high-density polyethylene (HDPE) 250mL wide mouth bottles.

Samples were analyzed at EMSL Analytical, Inc. in Cinnaminson, New Jersey *(NJDEP#03036), accredited in accordance with NELAC (National Environmental Laboratory Accreditation Conference). The analytical method utilized was inductively coupled plasma mass spectrometry ICP-MS (EPA 200.8).

Nine of the fourteen initially requested samples were collected from the Demarest Middle School. The remaining water outlets were either permanently out of service or disabled due to Covid-19 restrictions.

Results: Eight of the samples analyzed were either "None Detected" or less than the EPA established threshold for lead in drinking water. However, one of the samples was above the allowable limit established by The United States Environmental Protection Agency (USEPA) of 15 parts per billion (ppb). When a water outlet/faucet meets or exceeds the USEPA threshold, EnviroVision recommends that the outlet/faucet be immediately put out of service until the system can be further evaluated and proper remedial action is achieved.



DEMAREST MIDDLE SCHOOL - LEAD (Pb) in Water Results of Concern

Outlet ID/Sample Number	Location	Results
DM-01-S	Kitchen Sink	202 ppb

Due to the elevated levels in the above outlets, we recommend that some or all of the following steps be taken at this time;

- Closure of the affected water outlet(s) until the system can be further evaluated and proper remedial action is achieved.
- Removal and replacement with non-lead containing fixtures.
- Installation of filtration systems.
- Development of a Flushing Program for those taps high in lead and turbidity (this may include automatic flushing systems).
- Contact the local water utility company to obtain information about their corrosion control procedures and how it might affect the District's control plans.
- Permanent closure of outlet(s).

Once the remedial action(s) are complete, follow up testing is required to ensure alterations/replacement to plumbing fixtures has lowered the amount of lead to acceptable levels.

I have also enclosed documents with detailed steps from the New Jersey Department of Environmental Protection regarding notifications that must be made, posting of results, and initial and long-term remedial requirements.

If you have any questions, or if we could be of any further assistance, please feel free to contact our office. EnviroVision looks forward to providing you with the service and attention to detail you have come to expect from us.

Sincerely,
EnviroVision Consultants, Inc.

Cathy DiNardo
Cathy DiNardo, Project Manager

Attached: Lab results, Associated data sheets, DEP Overview of Lead in Drinking Water at School Facilities, DEP Guidance for Selecting a Remedial Measure for Lead Removal



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn:

Cathy DiNardo
EnviroVision Consultants, Inc
20-21 Wagaraw Rd
Bldg 35E
Fair Lawn, NJ 07410

9/13/2021

Phone: (973) 636-9145

Fax: (973) 636-9144

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 8/23/2021. The results are tabulated on the attached data pages for the following client designated project:

Demarest Middle School

The reference number for these samples is EMSL Order #012109768. 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:

Phillip Worby, Environmental 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: 012109768
 CustomerID: RAMA51
 CustomerPO:
 ProjectID:

Attn: **Cathy DiNardo**
EnviroVision Consultants, Inc
20-21 Wagaraw Rd
Bldg 35E
Fair Lawn, NJ 07410

Phone: (973) 636-9145
 Fax: (973) 636-9144
 Received: 8/23/2021 09:00 AM

Project: **Demarest Middle School**

Analytical Results

Client Sample Description DM01-S **Collected:** 8/20/2021 7:30:00 AM **Lab ID:** 012109768-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	202 D	5.00 µg/L	9/8/2021 KG	9/9/2021 15:03 JW

Client Sample Description DM02-BF **Collected:** 8/20/2021 7:31:00 AM **Lab ID:** 012109768-0002

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	9/9/2021 VD	9/10/2021 00:54 VD

Client Sample Description DM04-BF **Collected:** 8/20/2021 7:32:00 AM **Lab ID:** 012109768-0003

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	9/9/2021 VD	9/10/2021 01:01 VD

Client Sample Description DM05-BF **Collected:** 8/20/2021 7:35:00 AM **Lab ID:** 012109768-0004

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	9/9/2021 VD	9/10/2021 01:02 VD

Client Sample Description DM10-BF **Collected:** 8/20/2021 7:36:00 AM **Lab ID:** 012109768-0005

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 µg/L	9/9/2021 VD	9/10/2021 01:04 VD

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EMSL Order: 012109768
 CustomerID: RAMA51
 CustomerPO:
 ProjectID:

Attn: **Cathy DiNardo**
EnviroVision Consultants, Inc
20-21 Wagaraw Rd
Bldg 35E
Fair Lawn, NJ 07410

Phone: (973) 636-9145
 Fax: (973) 636-9144
 Received: 8/23/2021 09:00 AM

Project: **Demarest Middle School**

Analytical Results

<i>Client Sample Description</i>		<i>DM11-S</i>	<i>Collected:</i>		<i>8/20/2021</i>	<i>Lab ID:</i>		<i>012109768-0006</i>	
					<i>7:38:00 AM</i>				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>		<i>Analysis Date & Analyst</i>			
METALS									
200.8	Lead	1.06	1.00 µg/L	9/9/2021	VD	9/10/2021	VD	01:05	
<i>Client Sample Description</i>		<i>DM12-S</i>	<i>Collected:</i>		<i>8/20/2021</i>	<i>Lab ID:</i>		<i>012109768-0007</i>	
					<i>7:39:00 AM</i>				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>		<i>Analysis Date & Analyst</i>			
METALS									
200.8	Lead	14.6	1.00 µg/L	9/9/2021	VD	9/10/2021	VD	01:07	
<i>Client Sample Description</i>		<i>DM13-S</i>	<i>Collected:</i>		<i>8/20/2021</i>	<i>Lab ID:</i>		<i>012109768-0008</i>	
					<i>7:40:00 AM</i>				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>		<i>Analysis Date & Analyst</i>			
METALS									
200.8	Lead	ND	1.00 µg/L	9/9/2021	VD	9/10/2021	VD	01:08	
<i>Client Sample Description</i>		<i>DM14-S</i>	<i>Collected:</i>		<i>8/20/2021</i>	<i>Lab ID:</i>		<i>012109768-0009</i>	
					<i>7:41:00 AM</i>				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>		<i>Analysis Date & Analyst</i>			
METALS									
200.8	Lead	ND	1.00 µg/L	9/9/2021	VD	9/10/2021	VD	01:09	
<i>Client Sample Description</i>		<i>Blank</i>	<i>Collected:</i>		<i>8/20/2021</i>	<i>Lab ID:</i>		<i>012109768-0010</i>	
					<i>7:50:00 AM</i>				
<i>Method</i>	<i>Parameter</i>	<i>Result</i>	<i>RL Units</i>	<i>Prep Date & Analyst</i>		<i>Analysis Date & Analyst</i>			
METALS									
200.8	Lead	ND	1.00 µg/L	9/9/2021	VD	9/10/2021	VD	01:11	



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EMSL Order:	012109768
CustomerID:	RAMA51
CustomerPO:	
ProjectID:	

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

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

012109768

EMSL ANALYTICAL, INC.

Customer Information		Billing Information	
Company Name: <i>Envirovision Consultants</i>	Company Name: <i>Envirovision Consultants</i>	Billing Contact: <i>Bazhenia Tulchinsky</i>	Billing Contact: <i>Envirovision Consultants</i>
Contact Name: <i>Cathy DiNardo</i>	Contact Name: <i>Bazhenia Tulchinsky</i>	Street Address: <i>20-21 Wagarow Road</i>	Street Address: <i>20-21 Wagarow Road</i>
City, State, Zip: <i>Fair Lawn, NJ, 07410</i>	City, State, Zip: <i>Fair Lawn, NJ, 07410</i>	Country: <i>USA</i>	Country: <i>USA</i>
Phone: <i>973-636-9145</i>	Phone: <i>973-636-9145</i>	Email(s) for invoice: <i>envirovision@optonline.net</i>	
Email(s) for Report: <i>envirovision@optonline.net</i>		Purchase Order:	
Project Name/No: <i>Demarest Middle School</i>		State of Connecticut (CT) must select project location:	
EMSL LIMS Project ID: <i>MS</i>	US State where samples collected: <i>MS</i>	Commercial (Taxable)	Residential (Non-Taxable)
Samples for Compliance? <input type="checkbox"/>	If Yes, for NPDES? <input type="checkbox"/>	PWS ID:	State Reporting Required? Yes <input type="checkbox"/> No <input type="checkbox"/>
Samples Collected by (Check One): EMSL <input type="checkbox"/> CLIENT <input checked="" type="checkbox"/>	Other (Specify)	Samples(s) Temperature Upon Receipt: (LAB ONLY)	
Sampled By Signature: <i>Lee Stone</i>	Samples Received Chilled? <input type="checkbox"/>	No. of Samples in Shipment:	
Standard Turn-Around-Time: <input checked="" type="checkbox"/> 2 Weeks	The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal.	1 Week	2 Days
Turn-Around-Time (TAT)		3 Days	1 Day

Client Sample ID	Date / Time Collected	Grab	Comp	Matrix	Preservative	List Test(s) Needed (Write in test below, then check on sample line.)					Comments
						Test 1	Test 2	Test 3	Test 4	Test 5	
<i>DM01-S</i>	<i>730 AM</i>			<i>W</i>	<i>2</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>DM02-BF</i>	<i>731</i>			<i>W</i>	<i>2</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>DM04-BF</i>	<i>732</i>			<i>W</i>	<i>2</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>DM05-BF</i>	<i>735</i>			<i>W</i>	<i>2</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Reporting Requirements:	Results Only	Reduced Deliverables	H-results EDD	Excel	Other (Describe Above)
Method of Shipment:					
Relinquished by: <i>Michael Pava</i>	Date/Time: <i>8/20/21 9:30</i>	Received by: <i>CP Cam</i>	Date/Time: <i>8-20-21 9:00 AM</i>		
Relinquished by: <i>Michael Pava</i>	Date/Time: <i>8-20-21 9:30</i>	Received by: <i>Ellynn</i>	Date/Time: <i>8/23/21 9:00 AM</i>		

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

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 the customer.

Page 1 of 2

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Revised procedure EES113

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

012109768

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE (800) 220-3675
EMAIL EnvChemistry2@EMSL.com



EMSL ANALYTICAL, INC.

Additional 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.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix	Preservative	List Test(s) Needed (Write in test below, then check on sample line.)							Comments		
						Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7		Test 8	
DM10-BF	<input type="checkbox"/>	<input type="checkbox"/>	736	W	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lead in Drinking water
DM11-S	<input type="checkbox"/>	<input type="checkbox"/>	738	W	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DM12-S	<input type="checkbox"/>	<input type="checkbox"/>	739	W	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DM13-S	<input type="checkbox"/>	<input type="checkbox"/>	740	W	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DM14-S	<input type="checkbox"/>	<input type="checkbox"/>	741	W	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Blank	<input type="checkbox"/>	<input type="checkbox"/>	750	W	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Method of Shipment: _____

Relinquished by: *[Signature]* Date/Time: 8/20/21

Received by: *[Signature]* Date/Time: 8-20-21 9:13

Controlled Document - CDC-07 Chemistry R11 02/28/2021

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

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.

Attachment C – Drinking Water Outlet Inventory

(Complete for each school)

Name of School: Demarest Middle School Address: 568 Piermont Road Demarest, NJ 07627

Grade Levels: 5-8 Year School Constructed: 1896 Renovated/Additions: 1912, 1948, 1956

Individual school project officer Name/Signature: Hrant Mekhsian Date Completed: 10/31/16

# ¹	Type	Location	Code	Operational? ² (Y/N)	Signs of Corrosion ³ (Y/N)	Filter* (Y/N)	Brass Fittings, Faucets or valves? ³ (Y/N)	Aerator/Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Water Cooler		Comments
											Make	Model	
1	Sink	Kitchen	DM01	Y	N	N	N	Y	N	N			
2	Fountain	Near Cafeteria	DM02	Y	N	N	N	N	N	Y		Elkay	
3	Fountain	Near Room 116	DM03	Y	N	Y	N	N	N	N			FILTER INSTALLED
4	Fountain	Near Room 107	DM05	Y	N	N	N	N	N	Y		Halsey Taylor	
5	Fountain	PE Office (L)	DM06	Y	N	N	N	N	N	Y		Elkay	
6	Fountain	PE Office (R)	DM07	Y	N	N	N	N	N	Y		Elkay	
7	Fountain	Near Room 212 (L)	DM08	Y	N	N	N	N	N	Y		Elkay	
8	Fountain	Near Room 212 (R)	DM09	Y	N	N	N	N	N	Y		Elkay	
9	Fountain	Near Room 207	DM10	Y	N	N	N	N	N	Y		Halsey Taylor	
10	Sink	Teacher Lounge	DM11	Y	N	N	N	Y	N	N			
11	Sink	Nurse	DM12	Y	N	N	N	N	N	N			

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).

² Document if permanently or temporarily out of service on the Attachment B- Plumbing Profile.

³ Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

⁴ Document on Attachment D- Filter Inventory.

Attachment C – Drinking Water Outlet Inventory

(Complete for each school)

Name of School: Demarest Middle School Address: 568 Piermont Road Demarest, NJ 07627

Grade Levels: 5-8 Year School Constructed: 1896 Renovated/Additions: 1912, 1948, 1956

Individual school project officer Name/Signature: Hrant Mekhsian Date Completed: 10/31/16

#1	Type	Location	Code	Operational ² (Y/N)	Signs of Corrosion ³ (Y/N)	Filter ⁴ (Y/N)	Brass Fittings, Faucets or valves? (Y/N)	Aerator/Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Water Cooler		Comments
											Make	Model	
12	Fountain	Near Room 113	DM04	Y	N	N	N	N	N	Y	Halsey Taylor		
13	Sink	CST	DM13	Y	N	Y	N	Y	N	N			
14	Sink	BOE	DM14	Y	N	Y	N	Y	N	N			

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).
² Document if permanently or temporarily out of service on the Attachment B- Plumbing Profile.
³ Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.
⁴ Document on Attachment D- Filter Inventory.