

Pace Analytical Services, LLC-Fairfield
1275 Bloomfield Ave, Ste 37D, Fairfield, NJ 07004
(P) (973) 227-0422 - www.pacelabs.com

CERTIFICATE OF ANALYSIS

Laura Tallia
West Milford BOE
46 Highlander Drive
West Milford, NJ 07480

Project Name and Number: **Marshall Hill - Lead and Copper / Marshall Hill Elementary School**
Workorder: **25E2231**
Purchase Order:

June 04, 2025

This report relates only to the sample(s) as received by the laboratory on May 20, 2025. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

The issuance of the final Certificate of Analysis takes precedence over any previous Preliminary Report. Caution is advised for the utilization of preliminary data included in reports labeled as "Preliminary Report" and should not be used for regulatory purposes. A laboratory signature is provided on final reports only.

If you have any questions in reference to this laboratory report, please contact your Pace Analytical Services, LLC-Fairfield project coordinator.

Note: This cover page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Victor G. Cervantes, Project Manager

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Lab ID: 25E2231-01
Sample ID: Nurse Sink (PBCU) (DS)

Matrix: Drinking Water

Date Collected: 05/16/2025 06:16

Date Received: 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.0579		mg/L	0.00220	0.00600	EPA 200.8	06/03/2025 09:48	06/03/2025 09:48	1
Lead	ND	U	mg/L	0.000492	0.00200	EPA 200.8	06/03/2025 09:48	06/03/2025 09:48	1

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Lab ID: 25E2231-02 **Matrix:** Drinking Water **Date Collected:** 05/16/2025 06:07
Sample ID: Kitchen 2 Bay (PBCU) (DS) **Date Received:** 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.110		mg/L	0.00220	0.00600	EPA 200.8	06/03/2025 10:26	06/03/2025 10:26	1
Lead	ND	U	mg/L	0.000492	0.00200	EPA 200.8	06/03/2025 10:26	06/03/2025 10:26	1

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Lab ID: 25E2231-03 **Matrix:** Drinking Water **Date Collected:** 05/16/2025 06:05
Sample ID: Kitchen Single (PBCU) (DS) **Date Received:** 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.137		mg/L	0.00220	0.00600	EPA 200.8	06/03/2025 10:45	06/03/2025 10:45	1
Lead	ND	U	mg/L	0.000492	0.00200	EPA 200.8	06/03/2025 10:45	06/03/2025 10:45	1

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Lab ID: 25E2231-04 **Matrix:** Drinking Water **Date Collected:** 05/16/2025 05:26
Sample ID: New Room 21 Sink (PbCu) (DS) **Date Received:** 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.183		mg/L	0.00220	0.00600	EPA 200.8	06/03/2025 10:12	06/03/2025 10:12	1
Lead	0.00904		mg/L	0.000492	0.00200	EPA 200.8	06/03/2025 10:12	06/03/2025 10:12	1

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Lab ID: 25E2231-05 **Matrix:** Drinking Water **Date Collected:** 05/16/2025 06:23
Sample ID: Room 15 Sink (PBCU) (DS) **Date Received:** 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.181		mg/L	0.00220	0.00600	EPA 200.8	06/03/2025 11:04	06/03/2025 11:04	1
Lead	ND	U	mg/L	0.000492	0.00200	EPA 200.8	06/03/2025 11:04	06/03/2025 11:04	1

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Lab ID: 25E2231-06 **Matrix:** Drinking Water **Date Collected:** 05/16/2025 06:10
Sample ID: Kindergarten 1 Fountain Sink (DS) **Date Received:** 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.104		mg/L	0.00220	0.00600	EPA 200.8	06/03/2025 11:09	06/03/2025 11:09	1
Lead	ND	U	mg/L	0.000492	0.00200	EPA 200.8	06/03/2025 11:09	06/03/2025 11:09	1

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Lab ID: 25E2231-07 **Matrix:** Drinking Water **Date Collected:** 05/16/2025 06:12
Sample ID: Kindergarten 2 Sink (DS) **Date Received:** 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.0835		mg/L	0.00220	0.00600	EPA 200.8	06/02/2025 22:45	06/02/2025 22:45	1
Lead	ND	U	mg/L	0.000492	0.00200	EPA 200.8	06/02/2025 22:45	06/02/2025 22:45	1

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Lab ID: 25E2231-08 **Matrix:** Drinking Water **Date Collected:** 05/16/2025 06:36
Sample ID: Room 27 Sink(PBCU) (DS) **Date Received:** 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.158		mg/L	0.00220	0.00600	EPA 200.8	06/02/2025 22:50	06/02/2025 22:50	1
Lead	0.00356		mg/L	0.000492	0.00200	EPA 200.8	06/02/2025 22:50	06/02/2025 22:50	1

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Lab ID: 25E2231-09 **Matrix:** Drinking Water **Date Collected:** 05/16/2025 06:32
Sample ID: Room 25 Sink (PBCU) (DS) **Date Received:** 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.137		mg/L	0.00220	0.00600	EPA 200.8	06/02/2025 22:54	06/02/2025 22:54	1
Lead	0.00262		mg/L	0.000492	0.00200	EPA 200.8	06/02/2025 22:54	06/02/2025 22:54	1

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Lab ID: 25E2231-10 **Matrix:** Drinking Water **Date Collected:** 05/16/2025 06:28
Sample ID: Room 23 Sink (PBCU) (DS) **Date Received:** 05/20/2025 14:00

Total Metals - Pace Analytical Services, LLC-Fairfield

Analyte	Results	Flag	Units	MDL	RDL	Method	Prepared	Analyzed	Dilution
Copper	0.151		mg/L	0.00220	0.00600	EPA 200.8	06/02/2025 22:59	06/02/2025 22:59	1
Lead	0.00232		mg/L	0.000492	0.00200	EPA 200.8	06/02/2025 22:59	06/02/2025 22:59	1

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Qualifiers

U Compound not detected

Abbreviations

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the Reporting Detection Limit (RDL)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
<	Less than reporting limit
≤	Less than or equal to reporting limit
>	Greater than reporting limit
≥	Greater than or equal to reporting limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
MCL/AL	Maximum Contaminant Level/Action Level
mg/kg wet	Results reported as wet weight
TTLC	Total Threshold Limit Concentration
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leachate Procedure

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Laboratory Certification List for this report.

Laboratory	Certification				
	NJ	NY	PA	CT	
Pace Analytical Services, LLC Ewing 812 Silvia Street Ewing, NJ 08628	11005	12046	68-05417		
Pace Analytical Services, LLC-Fairfield 1275 Bloomfield Ave, Ste 37D Fairfield, NJ 07004	07010	11634	68-02903		



Pace Analytical Services, LLC Fairfield NJ
1275 Bloomfield Avenue, Fairfield, NJ 07004 (973) 227-0422

CHAIN OF CUSTODY



25E2231

West Milford BOE
Marshall Hill - Lead and Copper / Marshall

Client: West Milford BOE

46 Highlander Drive West Milford, NJ 07480

Project: Marshall Hill Elementary School: Marshall Hill - Lead and Copper

Project Mgr: Laura Tallia

(p) 973-697-1700, (c)

Project #: Marshall Hill Elementary School

PO #:

Comments:

Turn Around Time

☐ Standard 2 Weeks

Rush (Choose One Below) **

☐ 24 Hr. ☐ 72 Hr.

☐ 48 Hr. ☐ 1 Week

☐ Other (provide Date/Time)

Date: _____ Time: _____

** May Need Lab Approval

Report / Electronic Format

☐ Results Only/Lvl 2

☐ NJ DEP Reduced

☐ NJ DEP Full

☒ State Forms/E2

☐ Email Delivery

☐ Hazsite EDD

☐ EQuIS EDD

☐ Excel

PWSID # 1615329

SRP # _____

Lab ID	Sample Source: Field ID	Sampled Date Time	SampleType	Matrix	Analysis Requested	Time	Measurement
	Nurse Sink (PBCU)	5/16/25 6:16 AM	Grab	DW	_E2, Lead and Copper		
						Container	Qty 1
						1000mL Plastic HNO3	1
DS							
	Kitchen 2 Bay (PBCU)	5/16/25 6:07 AM	Grab	DW	Lead and Copper		
						Container	Qty 1
						1000mL Plastic HNO3	1
DS							
	Kitchen Single (PBCU)	5/16/25 6:05 AM	Grab	DW	Lead and Copper		
						Container	Qty 1
						1000mL Plastic HNO3	1
DS							

Released By

Date / Time

5/16/2025 7 am

Received By

Date / Time

5/20/25 0945

Released By

Date / Time

5/20/25 1345

Received By

Date / Time

5/20/25 14:00



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CHAIN OF CUSTODY

Page 2 of 3

Lab ID	Sample Source: Field ID	Sampled Date Time	Sample Type	Matrix	Analysis Requested	Field Analysis	Time	Measurement
DS	Room 28 Sink (PBCU) <i>No faucet</i> <i>* NEW ROOM 21 SINK *</i>	5/16/25 5:26 AM	Grab	DW	Lead and Copper			
						Container	Qty	1
						1000mL Plastic HNO3	1	
DS	Room 15 Sink (PBCU)	5/16/25 6:23 AM	Grab	DW	Lead and Copper			
						Container	Qty	1
						1000mL Plastic HNO3	1	
DS	Kindergarten 1 Fountain (PBCU) <i>SINK</i>	5/16/25 6:10 AM	Grab	DW	Lead and Copper			
						Container	Qty	1
						1000mL Plastic HNO3	1	
DS	Kindergarten 2 Fountain (PBCU) <i>SINK</i>	5/16/25 6:12 AM	Grab	DW	Lead and Copper			
						Container	Qty	1
						1000mL Plastic HNO3	1	
DS	Room 27 Sink (PBCU)	5/16/25 6:30 AM	Grab	DW	Lead and Copper			
						Container	Qty	1
						1000mL Plastic HNO3	1	

Released By *[Signature]*

Date / Time 5/16/2025 7am

Received By *[Signature]*

Date / Time 0945 5/20/25

Released By *[Signature]*

Date / Time 5/20/25 1345

Received By *[Signature]*

Date / Time 5/20/25 1400


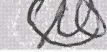
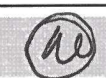



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CHAIN OF CUSTODY

Page 3 of 3

Lab ID	Sample Source: Field ID	Sampled Date Time	Sample Type	Matrix	Analysis Requested	Field Analysis	Time	Measurement				
DS	Room 25 Sink (PBCU)	5/16/25 6:32 AM	Grab	DW	Lead and Copper							
						<table border="1"><thead><tr><th>Container</th><th>Qty</th></tr></thead><tbody><tr><td>1000mL Plastic HNO3</td><td>1</td></tr></tbody></table>	Container	Qty	1000mL Plastic HNO3	1		
Container	Qty											
1000mL Plastic HNO3	1											
DS	Room 23 Sink (PBCU)	5/16/25 6:28 AM	Grab	DW	Lead and Copper							
						<table border="1"><thead><tr><th>Container</th><th>Qty</th></tr></thead><tbody><tr><td>1000mL Plastic HNO3</td><td>1</td></tr></tbody></table>	Container	Qty	1000mL Plastic HNO3	1		
Container	Qty											
1000mL Plastic HNO3	1											

Released By		Date / Time	5/16/2025 7:00 AM	Received By		Date / Time	5/20/25 0945
Released By		Date / Time	5/20/25 1345	Received By		Date / Time	5/20/25 1400

Page 3 of 3

Page 16 of 18

Pace® Analytical Laboratory
1275 Bloomfield Ave., Bldg. 6, Fairfield, New Jersey
07004
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Instructions for Drinking Water Lead and Copper Testing

Dear Water Customer:

Thank you for contacting us regarding Lead and/or Copper testing for your water. In order to sample your system for lead and/or copper contamination, we need to have you collect water samples drawn first thing in the morning, before any general water use in the water system. We appreciate your cooperation in this. A pickup date for the sample along with the bottom of this sheet should be arranged at the time of instruction and bottle drop off.

With this sheet, bottles were dropped off for sampling use. Please read the following instructions carefully. A sample is to be collected after an extended period of time (6-12 hours) with no water use during this time period within the interior piping.

The following is the proper sampling protocol:

1. Wait a minimum of eight (8) hours, but not more than eighteen (18) hours with no water being used during this time. (Example: Go to bed at 11 p.m., wake up at 7 a.m. and collect before any water usage).
2. You have been provided a one (1) liter bottle specially prepared for this analysis by PACE, use this bottle only for this purpose. **DO NOT RINSE BOTTLE!**
3. A kitchen or bathroom COLD water faucet is to be used for sampling. Place the bottle under the tap and slowly fill the bottle to the shoulder and turn water off.
4. Tightly cap the bottle and fill out the label to the best of your ability. In addition, please fill out the information provided below.
5. Leave the bottle outside on the arranged date for pick up to be brought back to the Laboratory for analysis.
6. Mark each bottle with the sample location, date and time of sampling.

THANK YOU FOR YOUR COOPERATION!

Water was last used Time: 11:00 PM Date: 5/15/2025

I have read the above directions and have taken a sample in accordance with this sample protocol:

Signature:  Phone# 973-697-1705 EXT 4170
Name: David K. Hughes JR
Address: 210 MASSAHEAD HILL Rd west mlford N.J. 07486

Sample Condition Upon Receipt Form (SCUR)



Affix Sample Label Here

D
Ex. Label: **25E2231**
of person:
Deliver to location:
pH:

Thermometer Used: 7005

Date: 5/20/25

Time: 14:00

Initials: LS

State of Origin: CA

Cooler #1 Temp. °C 4 (Visual) 0 (Correction Factor) 4 (Actual)

☒ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ Other

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No

Seals intact: ☐ Yes ☒ No

Ice: ☒ Wet ☐ Blue ☐ Melted ☐ None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Samples were collected by Pace employee ☐ Yes ☒ No ☐ N/A

Comments:

Chain of Custody Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody Filled Out	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Relinquished Signature on COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sampler Name and Signature on COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples Arrived within Hold Time	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush TAT requested on COC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient Volume	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing acid/base preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: Vials, Microbiology, O&G, Metals	Initials: <u>LS</u>	
Headspace in VOA Vials? (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Login Comments:

Client notification/ Resolution

Person Contacted:

Date/Time:

Comments/Resolution: