



WEST MILFORD PUBLIC SCHOOLS

46 Highlander Drive, West Milford, New Jersey 07480
Phone: 973-697-1700 www.wmtps.org Fax: 973-697-8351

Alex Anemone, Ed.D.
Superintendent

Barbara Francisco
Business Administrator/Board Secretary

Daniel Novak
Director of Education

Elizabeth McQuaid, OTD
Director of Special Services

“Success Starts Here”

June 30, 2022

West Milford Board of Education
Marshall Hill School
210 Marshall Hill Road
West Milford, NJ 07480

Dear Marshall Hill School Community,

Our school system is committed to protecting student, teacher, and staff health. To protect our community and in compliance with the Department of Education regulations, West Milford Board of Education tested our schools’ drinking water for lead in June, 2022.

In accordance with the Department of Education regulations, Marshall Hill School will implement immediate remedial measures for any drinking water outlet with a result greater than the US Environmental Protection Agency established action level of 15 µg/l (parts per billion [ppb]) for lead. This includes turning off the outlet unless it is determined the location must remain on for non-drinking purposes. In these cases, a “DO NOT DRINK – SAFE FOR HANDWASHING ONLY” sign will be posted.

Results of our Testing

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, we completed a plumbing profile for each of the buildings within West Milford Board of Education. Through this effort, we identified and tested all drinking water and food preparation outlets. Of the 19 samples taken, all but 4 tested below the lead action level of 15 ppb.

The table below identifies the drinking water outlets that tested above 15 ppb for lead, the actual lead level, and what temporary remedial action West Milford Board of Education has taken to reduce the levels of lead at these locations.

Sample Location	First Draw Result in µg/l (ppb)	Remedial Action
Rm. 18 - Fountain Outlet ID #E-26A	15.6	Permanently Removed Fixture

Rm. 19 Outlet ID #E-25A	17.9	Permanently Removed Fixture
Rm. 21 Outlet ID#E-24A	35.6	Permanently Removed Fixture
Rm. 24 Outlet ID #E-18A	18.4	Permanently Removed Fixture

Health Effects of Lead

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys and can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

In other words, it is the fetus that is at risk because developing fetuses receive lead from the mother's bones. Children and fetuses absorb more lead into their bodies than adults and are more susceptible to its effects on brain development; however, most children with elevated blood lead levels do not exhibit any symptoms, but effects may appear later in life.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and household plumbing. These materials include lead-based solder used to join copper pipes, brass, and chrome-brass faucets, and in some cases, pipes made of or lined with lead.

When water remains in contact with lead pipes or plumbing materials containing lead over time, the lead may dissolve into your drinking water. This means the first water drawn from the tap in the morning, or later in the afternoon if the water has not been used all day, may contain elevated levels of lead.

- Homes and buildings in New Jersey built before 1987 are more likely to have lead pipes and/or lead solder.
- Service lines, which may also contain lead, are the individual pipes that run from the well to a home or building. The property owner may also be the owner of the service line. Lead service lines are not typically found in non-community systems (e.g., school, office, restaurant, or other buildings on their own well).
- Brass faucets, fittings, and valves, including those advertised as "lead-free", may also contribute lead to drinking water. The law currently allows end-use brass

fixtures, such as faucets, that contain a maximum of 0.25 percent lead to be labeled as “lead free”. However, prior to January 4, 2014, “lead free” allowed up to 8 percent lead content of the wetted surfaces of plumbing products including those labeled National Sanitation Foundation (NSF) certified. Consumers should be aware of their current fixtures and take appropriate precautions.

Lead in Drinking Water

Lead is a common metal found in the environment. Drinking water is one possible source of lead exposure. The main sources of lead exposure are lead-based paint and lead-contaminated dust or soil. In addition, lead can be found in certain types of pottery, pewter, brass fixtures, cosmetics, imported spices and other food. Other sources include exposure in the workplace and exposure from certain hobbies like shooting ranges and fishing (lead can be carried on clothing or shoes). Lead is found in some toys, some playground equipment, and some children’s metal jewelry.

EPA estimates that 10 to 20 percent of a person’s potential exposure to lead may come from drinking water. Infants who consume mostly formula mixed with lead-containing water may receive 40 to 60 percent of their exposure to lead from drinking water. When there are elevated levels of lead in your water, drinking water is likely to be a more important source of exposure.

For More Information

A copy of the test results is available in our central office for inspection by the public, including students, teachers, other school personnel, and parents, and can be viewed between the hours of 8 a.m. and 4 p.m. and are also available on our website at www.wmtps.org. For more information about water quality in our schools, contact Chris Kelly, C.E.F.M., Supervisor of Buildings and Grounds, (973) 697-1700 x 5071.

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA’s Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD or Safe Drinking Water Act hotline at 1-800-426-4791, or contact your health care provider.

If you are concerned about lead exposure at this facility or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,

Dr. Alex Anemone, Ed.D.
Superintendent of Schools



Environmental and Laboratory Services

Dover Location:

90 1/2 West Blackwell St., Dover, NJ 07801
Phone: (973) 989-0010, Fax (973) 989-0156

Marlboro Location:

8A Railroad Ave, Marlboro, NJ 07746
Phone: (732) 308-3500, Fax (732) 308-3503

Date: June 27, 2022
Client: Marshall Hill Elementary School
Address: 210 Marshall Hill Rd
West Milford, NJ 07480

Analytical Results

PWSID#:
Project Location:

Table with sample details: Sample Matrix: Drinking Water, Sample Location: Field Blank, Sampled By: Client, Sample Date/Time: 6/3/2022 5:39, Lab Sample Number: 220531055-001, Customer Sample Number:

Table with 10 columns: Parameters, Method, Results, Units, NJDEP Limit, Date Analyzed, Time Analyzed, Analyst, Reporting Limit, Dilution Factor. Row: Lead-1st Draw, SM3113B, < 2.00, µg/L, 15, 6/24/2022, 10:50, JGW, 2, 1

Table with sample details: Sample Matrix: Drinking Water, Sample Location: E-1, Sampled By: Client, Sample Date/Time: 6/3/2022 5:44, Lab Sample Number: 220531055-002, Customer Sample Number:

Table with 10 columns: Parameters, Method, Results, Units, NJDEP Limit, Date Analyzed, Time Analyzed, Analyst, Reporting Limit, Dilution Factor. Row: Lead-1st Draw, SM3113B, 2.37, µg/L, 15, 6/24/2022, 11:18, JGW, 2, 1

Sample Matrix: Drinking Water **Lab Sample Number:** 220531055-003
Sample Location: E-2 **Customer Sample Number:**
Sampled By: Client
Sample Date/Time: 6/3/2022 5:45

Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	2.48	µg/L	15	6/24/2022	11:24	JGW	2	1

Sample Matrix: Drinking Water **Lab Sample Number:** 220531055-004
Sample Location: E-3A Fountain **Customer Sample Number:**
Sampled By: Client
Sample Date/Time: 6/3/2022 5:47

Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	2.92	µg/L	15	6/24/2022	11:30	JGW	2	1

Sample Matrix: Drinking Water **Lab Sample Number:** 220531055-005
Sample Location: E-4A Fountain **Customer Sample Number:**
Sampled By: Client
Sample Date/Time: 6/3/2022 5:49

Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	9.56	µg/L	15	6/24/2022	11:36	JGW	2	1

Sample Matrix: Drinking Water **Lab Sample Number:** 220531055-006
Sample Location: E-5 **Customer Sample Number:**
Sampled By: Client
Sample Date/Time: 6/3/2022 5:51

Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	6.84	µg/L	15	6/24/2022	11:41	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-007							
Sample Location: E-6		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 5:52									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	11.2	µg/L	15	6/24/2022	11:47	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-008							
Sample Location: E-7		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 5:56									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	11.0	µg/L	15	6/24/2022	11:52	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-009							
Sample Location: E-8		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 5:57									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	5.82	µg/L	15	6/24/2022	12:14	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-010							
Sample Location: E-13		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 6:00									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	5.86	µg/L	15	6/24/2022	12:20	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-011							
Sample Location: E-14A Fountain		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 6:02									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	8.33	µg/L	15	6/24/2022	12:25	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-012							
Sample Location: E-15		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 6:05									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	< 2.00	µg/L	15	6/24/2022	12:31	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-013							
Sample Location: E-18A Fountain		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 6:07									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	18.4 **	µg/L	15	6/24/2022	12:36	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-014							
Sample Location: E-22A Fountain		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 6:09									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	6.95	µg/L	15	6/24/2022	12:42	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-015							
Sample Location: E-24A Fountain		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 6:11									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	35.6 **	µg/L	15	6/24/2022	12:50	JGW	4	2

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-016							
Sample Location: E-25A Fountain		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 6:14									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	17.9 **	µg/L	15	6/24/2022	12:56	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-017							
Sample Location: E-26A Fountain		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 6:16									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	15.6 **	µg/L	15	6/24/2022	13:01	JGW	2	1

Sample Matrix: Drinking Water		Lab Sample Number: 220531055-018							
Sample Location: E-27A Fountain		Customer Sample Number:							
Sampled By: Client									
Sample Date/Time: 6/3/2022 6:18									
Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	5.98	µg/L	15	6/24/2022	13:23	JGW	2	1

Sample Matrix:	Drinking Water	Lab Sample Number:	220531055-019		
Sample Location:	E-32	Customer Sample Number:			
Sampled By:	Client				
Sample Date/Time:	6/3/2022 6:21				

Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	< 2.00	µg/L	15	6/24/2022	13:56	JGW	2	1

Sample Matrix:	Drinking Water	Lab Sample Number:	220531055-020		
Sample Location:	E-35	Customer Sample Number:			
Sampled By:	Client				
Sample Date/Time:	6/3/2022 6:23				

Parameters	Method	Results	Units	NJDEP Limit	Date Analyzed	Time Analyzed	Analyst	Reporting Limit	Dilution Factor
Lead-1st Draw	SM3113B	2.02	µg/L	15	6/24/2022	14:02	JGW	2	1

NJ Lab ID# 14013 (Dover)
 NJ Lab ID# 13033 (Marlboro)

** Result does not meet NJDEP Limits.
 NJDEP Limit for free and/or total chlorine does not apply to non-chlorinated samples.
 Any method followed by an asterisk (*) was analyzed by the Agra-Marlboro laboratory.
 All other methods, unless otherwise specified, were analyzed by the Agra-Dover laboratory.

I certify that these samples were analyzed in accordance with procedures approved by the New Jersey Department of Environmental Protection.

Susan VanVeen
 Susan VanVeen, Laboratory Manager

June 27, 2022



CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

220531055

Customer Name: Marshall Hill Elementary School
 Location: 46 Highlander Drive
 Address: 210 Marshall Hill Rd
 West Milford, NJ, 07480

Report to: Barbara Francisco
 West Milford, NJ, 07480

Customer Contact: Laura Talia
 Phone: Work/Cell 973-728-3430 / 973-697-1700 ex 5071
 Fax: 973-728-3430

Agra Environmental Services
 90 1/2 West Blackwell Street
 Dover, NJ 07801
 Phone: (973) 989-0010
 Fax: (973) 989-0156

Asc./HCl Vials pH:
 # HCl Vials pH:
 # Na₂S₂O₈ Cl₂:
 # HNO₃ 50 pH:
 # H₂SO₄ 100 pH:
 # NaOH
 # unpreserved
 # other

Matrix Abbreviations: DW - Drinking water GW - Ground Water RAW-GW - DW RAW GW WW/NPW - Wastewater SL - Sludge P - Pool L - Lake

Project: BOE Lead Sampling

Sample ID	Location	Date	Time	Grab	Comp	Matrix	# of Bottles	Preservative	ANALYSIS REQUESTED	pH / Temp	Field Analysis
20531055-001	Field Blank	6-3-22	5:39A	X		DW	1	HNO3	Lead-1st Draw		Cl ₂
20531055-002	E-1	6-3-22	5:44A	X		DW	1	HNO3	Lead-1st Draw		or
20531055-003	E-2	6-3-22	5:45A	X		DW	1	HNO3	Lead-1st Draw		PO ₄
20531055-004	E-3A Fountain	6-3-22	5:47A	X		DW	1	HNO3	Lead-1st Draw		
20531055-005	E-4A Fountain	6-3-22	5:49A	X		DW	1	HNO3	Lead-1st Draw		
20531055-006	E-5	6-3-22	5:51A	X		DW	1	HNO3	Lead-1st Draw		
20531055-007	E-6	6-3-22	5:52A	X		DW	1	HNO3	Lead-1st Draw		
20531055-008	E-7	6-3-22	5:56A	X		DW	1	HNO3	Lead-1st Draw		
20531055-009	E-8	6-3-22	5:57A	X		DW	1	HNO3	Lead-1st Draw		
20531055-010	E-13	6-3-22	6:00A	X		DW	1	HNO3	Lead-1st Draw		

Are these samples for compliance? (circle one): Yes or **No**

NJDEP Laboratory Certification (Dover, NJ) #14013
 NJDEP Laboratory Certification (Marlboro, NJ) #13033

Indicate laboratory location where analysis request was performed

Reporting Requirements (Check Box): Standard NJ Reduced Other (Specify)

Cooler Temperature Upon Receipt at lab: N/A

Sample Custody Exchanges (Please use full legal signature)

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Jake Carter	6/3/22	6:50	Jane Taylor	6/3/22	5:57
Jane Taylor	6/4/22	11:27	Jane Taylor	6/4/22	11:27
Jane Taylor	6/06/22	1:09	Jane Taylor	6/06/22	1:09

Comments: Preserve with HNO3
 1910 6-3-22 - 5:50

Date Faxed: _____ Invoice Number: _____

Is sample known to be hazardous? (circle one) Yes or No



CHAIN OF CUSTODY / SAMPLE ANALYSIS REQUEST

220531055
220531055

Customer Name: Marshall Hill Elementary School
 Location: 46 Highlander Drive
 Address: 210 Marshall Hill Rd
 West Milford, NJ, 07480

Report to: Barbara Francisco
 West Milford, NJ, 07480

Customer Contact: Laura Talia
 Phone: Work/Cell 973-728-3430 / 973-697-1700 ex 5071
 Fax: 973-728-3430

Agra Environmental Services
 90 1/2 West Blackwell Street
 Dover, NJ 07801
 Phone: (973) 989-0010
 Fax: (973) 989-0156

Matrix Abbreviations: DW - Drinking water, GW - Ground Water, RAW-GW - DW RAW-GW, WW/NPW - Wastewater, SL - Sludge, P - Pool, L - Lake

Asc./HCl Vials pH: _____
 # HCl Vials pH: _____
 # Na₂SO₄ Cl: _____
 # HNO₃ pH: _____
 # H₂SO₄ pH: _____
 # NaOH pH: _____
 # unpreserved _____
 # other _____

Page 2 of 2

Sample ID	Location	Date	Time	Collection	PWSID#	Lab	Comp	Matrix	# of Bottles	Preservative	ANALYSIS REQUESTED	pH / Temp	Field Analysis
20531055-011	E-14A Fountain	6-3-22	6:02 AM	X			DW	DW	1	HNO3	Lead-1st Draw		Cl ₂
20531055-012	E-15	6-3-22	6:05 AM	X			DW	DW	1	HNO3	Lead-1st Draw		or
20531055-013	E-18A Fountain	6-3-22	6:07 AM	X			DW	DW	1	HNO3	Lead-1st Draw		PO ₄
20531055-014	E-22A Fountain	6-3-22	6:09 AM	X			DW	DW	1	HNO3	Lead-1st Draw		
20531055-015	E-24A Fountain	6-3-22	6:10 AM	X			DW	DW	1	HNO3	Lead-1st Draw		
20531055-016	E-25A Fountain	6-3-22	6:14 AM	X			DW	DW	1	HNO3	Lead-1st Draw		
20531055-017	E-26A Fountain	6-3-22	6:16 AM	X			DW	DW	1	HNO3	Lead-1st Draw		
20531055-018	E-27A Fountain	6-3-22	6:18 AM	X			DW	DW	1	HNO3	Lead-1st Draw		
20531055-019	E-32	6-3-22	6:21 AM	X			DW	DW	1	HNO3	Lead-1st Draw		
20531055-020	E-35	6-3-22	6:20 AM	X			DW	DW	1	HNO3	Lead-1st Draw		

Are these samples for compliance? (circle one): Yes or **No**

NJDEP Laboratory Certification (Dover, NJ) #14013
 NJDEP Laboratory Certification (Marlboro, NJ) #13033

Indicate laboratory location where analysis request was performed

Reporting Requirements (Check Box):
 Standard
 NJ Reduced
 Other (Specify)

Cooler Temperature Upon Receipt at Lab: _____

Sample Custody Exchanges (Please use full legal signature)

Relinquished By: *J. Center* Date: 6/3/22 Time: 6:55
 Received By: *Jama Talia* Date: 6/3/22 Time: 6:55

Relinquished By: *Jama Talia* Date: 6/4/22 Time: 11:27
 Received By: *Jama Talia* Date: 6/4/22 Time: 11:27

Relinquished By: *Jama Talia* Date: 6/6/22 Time: 1:09
 Received By: *Jama Talia* Date: 6/6/22 Time: 1:09

Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Comments: 1510 6-2-22 - 3 SW
 PRESERVE WATER

Date Faxed: _____ Invoice Number: _____
 Is sample known to be hazardous? (circle one) Yes or No