



District: Mid-Del City Public Schools

School: Epperly Heights Elementary

Sampling Dates: 4/29/22, 5/19/23, 9/8/23, 8/20/24

Status: Remediation

RESULTS

Below are the results from the first, second, and investigative rounds of testing of drinking water for lead that was conducted at Mid-Del City Public Schools – Epperly Heights Elementary School. The initial sampling event occurred on April 29, 2022. The resampling event occurred on May 19, 2023. The investigative sampling event occurred on September 8, 2023 (Page 9). The post remediation sampling event occurred on August 20, 2024 (Page 10).

In the initial sampling, one hundred thirteen (113) outlets were tested resulting in a total of two hundred twenty-six (226) samples being sent to the lab.

- Seventy-six (76) samples had no detectable level of lead.
- One-hundred forty-eight (148) samples had a low detection of lead between 1.0 and 14.9 µg/L.
- Two (2) samples had a high detection of lead equal to or above 15.0 µg/L.

In the resampling, eighteen (18) outlets were tested resulting in a total of thirty-six (36) samples being sent to the lab.

- Eleven (11) samples had no detectable level of lead.
- Twenty-four (24) samples had a low detection of lead between 1.0 and 14.9 µg/L.
- One (1) sample had a high detection of lead equal to or above 15.0 µg/L.

The table below shows all sample results for the first two rounds of testing. The investigative sampling results are later in this report. Sample results are in micrograms per liter, shown as µg/L. For more information on how to read this report, please see our **Results Interpretation Fact Sheet**.

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action	First Draw µg/L	Flush µg/L
		Initial Sampling			Resampling	
Non-Detect (<1.0 µg/L)						
1-1-KIT-IM	Manitowoc Ice machine in cafeteria	<1.0	<1.0	N/A		
1-1-10-DW	Drinking water bubbler in Room #10	<1.0	<1.0	N/A		
1-1-9-DW	Drinking water bubbler in Room #9 - Playroom	<1.0	<1.0	N/A		
1-1-11-DW	Drinking water bubbler in Room #11	<1.0	<1.0	N/A		

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action	First Draw µg/L	Flush µg/L
		Initial Sampling			Resampling	
1-1-15-DW	Drinking water bubbler in Room #15	<1.0	<1.0	N/A		
1-1-8-DW	Drinking water bubbler in Room #8	<1.0	<1.0	N/A		
1-1-LIB-KF	Kitchen faucet in back of library	<1.0	<1.0	N/A		
1-1-17-DW	Drinking water bubbler in Room #17	<1.0	<1.0	N/A		
1-1-18-DW	Drinking water bubbler in Room #18	<1.0	<1.0	N/A		
1-1-HALL-WC15	Elkay water cooler; right side; near Room #18	<1.0	<1.0	N/A		
1-1-HALL-WC16	Water cooler with bottle filler; near boys' restrooms and Room #79	<1.0	<1.0	N/A		
1-1-HALL-WC17	Bottle filler; near boys' restroom and Room #79	<1.0	<1.0	N/A		
1-1-75-CF	Classroom faucet in Room #75	<1.0	<1.0	N/A		
1-1-73-CF	Classroom faucet in Room #73	<1.0	<1.0	N/A		
1-1-71-CF	Classroom faucet in Room #71	<1.0	<1.0	N/A		
1-1-68-CF	Classroom faucet in Room #68	<1.0	<1.0	N/A		
1-1-78-CF	Classroom faucet in Room #78	5.1	1.4	Replaced	<1.0	<1.0
Low Detection (1.0 - 14.9 µg/L)						
1-1-14-DW	Drinking water bubbler in Room #14 - used for storage	1.0	<1.0			
1-1-13-DW	Drinking water bubbler in Room #13	1.0	<1.0			
1-1-19-DW	Drinking water bubbler in Room #19	1.0	<1.0			

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action	First Draw µg/L	Flush µg/L
		Initial Sampling			Resampling	
1-1-12-DW	Drinking water bubbler in Room #12; may not be in use	1.1	<1.0			
1-1-36-CF	Classroom faucet in Room #36	1.1	<1.0			
1-1-25-DW	Drinking water bubbler in Room # 25	1.1	<1.0			
1-1-24B-DW	Drinking water bubbler in Room #24B	1.1	<1.0			
1-1-21-DW	Drinking water bubbler in Room #21	1.1	<1.0			
1-1-HALL-WC7	Elkay water cooler; left side; by nurse's office	1.1	1.2			
1-1-33-DW	Drinking water bubbler in Room #33; Room was empty at sampling	1.2	<1.0			
1-1-22B-DW	Drinking water bubbler in Room #22B	1.2	<1.0			
1-1-16-DW	Drinking water bubbler in Room #16	1.2	<1.0			
1-1-HALL-WC2	Elkay water cooler; left side; outside of Room #15	1.2	1.0			
1-1-7-DW	Drinking water bubbler in Room #7	1.2	1.0			
1-1-HALL-WC14	Elkay bottle filler; left side; near Room #18	1.2	1.0			
1-1-HALL-WC8	Elkay bottle filler; left side; by nurse's office	1.2	1.1			
1-1-HALL-WC3	Elkay water cooler with bottle filler; right side; outside of Room #15	1.2	1.2			
1-1-10-CF	Classroom faucet in Room #10 (Clark)	1.3	<1.0			
1-1-35-DW	Drinking water bubbler in Room #35	1.3	<1.0			

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action	First Draw µg/L	Flush µg/L
		Initial Sampling			Resampling	
1-1-38-KF	Kitchen faucet in teacher's work room (Room #38) with washer and dryer	1.3	<1.0			
1-1-37-DW	Drinking water bubbler in Room #37 - Mustang Corral	1.3	1.1			
1-1-HALL-WC1	Elkay bottle filler; right side; outside of Room #15	1.3	1.2			
1-1-HALL-WC5	Elkay bottle filler; left side; by Room #8	1.3	1.3			
1-1-HALL-WC4	Elkay water cooler; right side; by Room #8	1.3	1.6			
1-1-32-DW	Drinking water bubbler in Room #32	1.4	<1.0			
1-1-40-KF	Kitchen faucet in Room #40	1.4	<1.0			
1-1-31-DW	Drinking water bubbler in Room #31	1.4	1.1			
1-1-HALL-WC6	Elkay water cooler; right side; by nurse's office	1.4	1.5			
1-1-23-DW	Drinking water bubbler in Room #23	1.5	<1.0			
1-1-19-CF	Classroom faucet in Room #19	1.5	<1.0			
1-1-20-DW	Drinking water bubbler in Room #20	1.5	<1.0			
1-1-65-CF	Classroom faucet in Room #65	1.5	<1.0			
1-1-HALL-WC13	Elkay water cooler with bottle filler; left side; near Room #18	1.5	1.3			
1-1-42-KF	Kitchen faucet in Teacher's' Lounge - Room #42	1.6	<1.0			
1-1-36-DW	Drinking water bubbler in Room #36	1.6	1.0			

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action	First Draw µg/L	Flush µg/L
		Initial Sampling			Resampling	
1-1-79-CF	Classroom faucet in Room #79	1.6	1.0			
1-1-5-DW	Drinking water bubbler in Room #5	1.6	1.1			
1-1-4-DW	Drinking water bubbler in Room #4	1.6	1.3			
1-1-HALL-WC9	Water cooler; right side; near Room #34	1.6	1.9			
1-1-49-KF	Kitchen faucet for coffee in Teachers' Lounge - Room #49	1.7	<1.0			
1-1-11-CF	Classroom Faucet in Room #11	1.7	<1.0			
1-1-15-CF	Classroom Faucet in Room #15	1.7	<1.0			
1-1-25-CF	Classroom faucet in Room #25	1.7	<1.0			
1-1-24B-CF	Classroom faucet in Room #24B	1.7	<1.0			
1-1-17-CF	Classroom faucet in Room #17	1.7	<1.0			
1-1-74-CF	Classroom faucet in Room #74	1.7	1.0			
1-1-34-DW	Drinking water bubbler in Room #34	1.8	<1.0			
1-1-22B-CF	Classroom Faucet in Room #22B	1.8	<1.0			
1-1-70-CF	Classroom Faucet in Room #70	1.8	<1.0			
1-1-6-DW	Drinking water bubbler in Room #6	1.8	1.3			
1-1-21-CF	Classroom Faucet in Room #21	1.9	<1.0			
1-1-16-CF	Classroom faucet in Room #16	1.9	1.3			

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action	First Draw µg/L	Flush µg/L
		Initial Sampling			Resampling	
1-1-HALL-WC10	Bottle filler; left side; hall near Room #34	1.9	1.4			
1-1-86-CF	Classroom faucet in Room #86	2.0	<1.0			
1-1-66-CF	Classroom faucet in Room #66	2.0	<1.0			
1-1-13-CF	Classroom faucet in Room #13	5.4	1.1	Replaced	2	<1.0
1-1-HALL-WC11	Water cooler with bottle filler; left side; hall near Room #34	2.0	2.0			
1-1-34-CF	Classroom faucet in Room #34	2.1	<1.0			
1-1-76-CF	Classroom faucet in Room #76	2.1	<1.0			
1-1-69-CF	Classroom faucet in Room #69	2.1	1.1			
1-1-33-CF	Classroom faucet in Room #33; Room was empty at sampling	2.2	<1.0			
1-1-8-CF	Classroom faucet in Room #88	2.3	<1.0			
1-1-18-CF	Classroom faucet in Room #18	2.3	<1.0			
1-1-1-DW	Drinking water bubbler in Room #1	2.3	1.7			
1-1-85-CF	Classroom faucet in Room #85	8.5	1.4	Replaced	1.7	2.3
1-1-2-DW	Drinking water bubbler in Room #2	2.4	1.2			
1-1-35-CF	Classroom faucet in Room #35	2.5	<1.0			
1-1-31-CF	Classroom faucet in Room #31	2.5	1.1			
1-1-77-CF	Classroom faucet in Room #77	2.6	1.0			

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action	First Draw µg/L	Flush µg/L
		Initial Sampling			Resampling	
1-1-67-CF	Classroom faucet in Room #67	2.7	<1.0			
1-1-NURSE-WC	Elkay water cooler in nurse's office	2.7	2.1			
1-1-23-CF	Classroom faucet in Room #23	3.1	<1.0			
1-1-HALL-WC12	Elkay water cooler near Music room	3.1	2.8			
1-1-72-CF	Classroom faucet in Room #72	3.3	<1.0			
1-1-37-CF	Classroom faucet in Room #37 - Mustang Corral	38.1	5.8	Replaced	3.3	1.1
1-1-NURSE-KF	Kitchen faucet in nurse's office	3.3	1.5			
1-1-81-CF	Classroom faucet in Room #81	3.5	1.1			
1-1-20-CF	Classroom faucet in Room #20	3.6	1.0			
1-1-KIT-KF2*	Kitchen faucet over one-compartment sink	6.4	1.3	Replaced	3.7	1.7
1-1-12-CF	Classroom faucet in Room #12; room may not be in use	3.8	<1.0			
1-1-9-CF	Classroom faucet in Room #9 - Playroom	3.8	1.5			
1-1-30-DW	Drinking water bubbler in Room #30	7.0	1.1	Replaced	4.0	<1.0
1-1-KIT-KF1	Kitchen faucet fixture over three-compartment sink	4.3	<1.0			
1-1-3-DW	Drinking water bubbler in Room #3	4.4	1.5			
1-1-7-CF*	Classroom faucet in Room #7	6.3	1.1	Replaced	<1.0	5.5

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action	First Draw µg/L	Flush µg/L
		Initial Sampling			Resampling	
1-1-6-CF	Classroom faucet in Room #6	6.3	1.0	Replaced	6.3	<1.0
1-1-14-CF	Classroom faucet in Room #14; Room used for storage	5.2	2.8	Replaced	6.4	<1.0
1-1-4-CF	Classroom faucet in Room #4	6.8	1.2	Replaced	7.2	1.4
1-1-5-CF	Classroom faucet in Room #5	8.3	1.3	Replaced	7.3	<1.0
1-1-83-CF*	Classroom faucet in Room #83	12.2	1.3	Replaced	8.7	4.6
1-1-2-CF	Classroom faucet in Room #2	8.3	1.3	Replaced	8.9	1.1
1-1-32-CF*	Classroom faucet in Room #32	28.1	1.2	Replaced	9.6	<1.0
1-1-30-CF	Classroom faucet in Room #30	5.8	1.5	Replaced	10.5	<1.0
1-1-1-CF	Classroom faucet in Room #1	11.6	1.7	Replaced	10.6	1.1
1-1-3-CF	Classroom faucet in Room #3	11.5	1.9	Replaced	12.4	1.6
High Detection (≥15.0 µg/L)						
1-1-MUSIC-KF*	Kitchen faucet in closet in music room	6.8	1.7	Replaced	19.1	<1.0

*Outlets were used in Investigative Sampling Event (shown below)

After the resampling event, DEQ and Mid-Del City Public Schools decided to conduct an investigative sampling event at Epperly Heights Elementary School, which took place on September 8, 2023. In this, five (5) outlets that were still giving high results were selected. A First Draw sample was taken, followed by a series of four (4) Flush samples at each outlet. Between each sample, a 30-second flush was conducted on the outlet. Twenty-five (25) samples were sent to the lab.

- Eleven (11) samples had no detectable level of lead.
- Thirteen (13) samples had a low detection of lead between 1.0 and 14.9 µg/L.
- One (1) sample had a high detection of lead equal to or above 15.0 µg/L.

The table below shows the results of the investigative sampling event.

Sample ID	Description	First Draw (µg/L)	Flush 1 (µg/L)	Flush 2 (µg/L)	Flush 3 (µg/L)	Flush 4 (µg/L)
		Investigative Sampling				
1-1-32-CF	Classroom faucet in Room #32	2.5	<1.0	<1.0	<1.0	<1.0
1-1-KIT-KF2	Kitchen faucet over one-compartment sink	2.6	<1.0	<1.0	<1.0	<1.0
1-1-83-CF	Classroom faucet in Room #83	3.3	1.2	1.7	2.4	<1.0
1-1-7-CF	Classroom faucet in Room #7	4.8	<1.0	<1.0	1.1	1.2
1-1-MUSIC-KF	Kitchen faucet in closet in music room	17.5	3.2	1.6	1.8	3.2

After the investigative sampling event, Mid-Del Public Schools conducted plumbing remediation in the pipes that lead to the Music Room. Once that was complete, DEQ resampled the Music Room outlet once more on August 20, 2024. Two (2) samples were taken and sent to the lab: a first draw sample and a flush sample.

- One (1) sample had no detectable level of lead.
- One (1) sample had a low detection of lead between 1.0 and 14.9 µg/L.
- Zero (0) samples had a high detection of lead equal to or above 15.0 µg/L.

Sample ID	Description	First Draw (µg/L)	Flush (µg/L)	Remedial Action
		Initial Sampling		
Low Detection (1.0 – 14.9µg/L)				
1-1-MUSIC-KF	Kitchen faucet in closet in music room	<1.0	2.9	