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## LEAD IN DRINKING WATER REPORT

**Performed At:**

Schools of Hillside BOE

**Performed For:**

Hillside Board of Education

David Defluri

195 Virginia Street

Hillside, NJ 07205

**Prepared By:**

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Inspection Date: 6/4/2022

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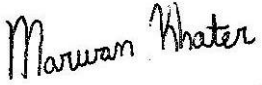
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## Contact Information

### Agency

Client Contact:	David Defluri
Client Name:	Hillside Board of Education
Street Address:	195 Virginia Street Hillside, NJ 07205
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### Risk Assessor(s)

Site Assessor(s):	Marwan Khater
Signature:	
Date:	June 16, 2022
E-Mail:	mkhater@lewcorp.com

### Firm

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### Laboratory

Organization:	Environmental Hazard Services, LLC
Street:	7469 Whitepine Road
City, State & Zip:	Richmond, VA 23237
NJDEP Certification #	VA008
Phone Number:	800-347-4010

## **Introduction**

LEW Environmental Services, LLC. was contracted by Hillside Board of Education to test for the presence of lead in drinking water in 9 schools in the district.

## **Sampling Methodology**

LEW Environmental Services, LLC. followed NJAC 6A:26. Full details on sampling practices can be found in Districts Sampling Plan.

All samples were collected in 250mL wide mouth plastic containers that was prepackaged by the analytical laboratory. The sample containers may contain nitric acid, if expedited analysis is required. If not, nitric acid will be added to each sample upon arrival at the laboratory. At each sample location, the first draw sample was taken after it was determined that the water had been standing in the plumbing system for greater than eight hours but less than forty-eight hours. If second draw samples were collected, they were collecting following a flushing protocol outlined in the District's Sampling Plan.

# Drinking Water Results

On June 4, 2022, LEW Environmental Services, LLC. collected the following number of water samples:

## Walter O Krumbiegel

- 9 first draw samples collected and 1 QAQC sample
- 2 samples above the 15ppb action level

## Hillside High School

- 22 first draw samples and 1 QAQC sample
- 2 samples above the 15ppb action level

## Calvin Coolidge

- 7 first draw samples and 1 QAQC sample
- 0 samples above the 15ppb action level

## George Washington

- 12 first draw samples and 1 QAQC sample
- 2 samples above the 15ppb action level

## AP Morris

- 37 first draw samples and 1 QAQC sample
- 0 samples above the 15ppb action level

## Saybrook Annex

- 4 first draw samples and 1 QAQC sample
- 0 samples above the 15ppb action level

## Administration Building

- 1 first draw samples and 1 QAQC sample
- 0 samples above the 15ppb action level

## Stadium

- 2 first draw samples and 1 QAQC sample
- 1 samples above the 15ppb action level

## Hurden Looker

- 6 first draw samples and 1 QAQC sample
- 0 samples above the 15ppb action level
- 2 samples lost in transit

The complete list of samples that exceeded the 15ppb limit can be found in Appendix A. The complete list of all sample results can be found in Appendix C. The laboratory results can be found in Appendix E.

Certain outlets could not or were not tested due to various reasons. The following table lists those locations and the reason why samples were not collected.

School	Sample Location	Reason for not testing.
Saybrook Annex	Room M	No longer exists
Saybrook Annex	Room 1	No longer exists
Calvin Coolidge Elementary	Hall By Room 2	Off
Hurden Looker	Hall by stair case H	Off
Hurden Looker	Gym	Off
Hurden Looker	Hall by Room 11	Off
AP Morris	Hall by 1A	Off
AP Morris	Hall by Main office	Off
Walter O Krumbiegel	Hall by Room T	Off
Walter O Krumbiegel	Hall by Kitchen	Off
Walter O Krumbiegel	Room 11	No longer exists
Walter O Krumbiegel	Hall by Room 13	Off
Walter O Krumbiegel	Nurse Office	No longer exists
Walter O Krumbiegel	Hall by Room 21	Off
Hillside High	Cafeteria Right	Off
Hillside High	Room 11	No longer exists
George Washington	Hall by 10B	Off
George Washington	Hall by Room 109	Off
George Washington	Gym	Off
George Washington	Gym	Off
George Washington	Hall by Room 235	Off

## Recommendations

Those outlets where the first draw sample tested below 15ppb are not considered to be elevated and no mitigation is necessary.

For those outlets where the first draw sample exceeds 15ppb the following steps are recommended:

- 1) Immediately discontinue use of the outlets.
- 2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.

A complete list of recommendations per outlet can be found in Appendix B.

## **Additional Recommendations**

- 1) Follow-up samples should be collected after any remediation efforts in order to determine the efficacy of the work.
- 2) Any of the inoperable/non-functioning outlets listed above that are brought back into service should be sample.
- 3) Comply with all requirements set forth in NJAC 6A:26.

## Appendix A Exceedances

Building	Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
George Washington	GW-WC-1FL-PEO	HALL BY PE OFFICE	06/04/2022	40.2
George Washington	GW-WC-1FL-2	RM 2 RM 101 HALL	06/04/2022	41.0
Hillside High School	HH-WC-1FL-CL	CAFETERIA LEFT	06/04/2022	16.3
Hillside High School	HH-WC-3FL-H307	HALL BY ROOM 307	06/04/2022	19.0
Walter O Krumbiege	WK-WC-2FL-TL	RM 19 TL	06/04/2022	29.5
Walter O Krumbiege	WK-WC-B-CR	HALL BY GIRLS RM	06/04/2022	19.3
Stadium	S-S-CS	CONCESSION STNAD	06/04/2022	58.2



## Appendix B Recommendations

Building	Sample ID	Sample Location	Concentration (ug/L)	Recommendations
George Washington	GW-WC-1FL-PEO	HALL BY PE OFFICE	40.2	<ol style="list-style-type: none"> <li>1) Immediately discontinue use of the outlets.</li> <li>2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.</li> </ol>
George Washington	GW-WC-1FL-2	RM 2 RM 101 HALL	41.0	<ol style="list-style-type: none"> <li>1) Immediately discontinue use of the outlets.</li> <li>2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.</li> </ol>
Hillside High School	HH-WC-1FL-CL	CAFETERIA LEFT	16.3	<ol style="list-style-type: none"> <li>1) Immediately discontinue use of the outlets.</li> <li>2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.</li> </ol>
Hillside High School	HH-WC-3FL-H307	HALL BY ROOM 307	19.0	<ol style="list-style-type: none"> <li>1) Immediately discontinue use of the outlets.</li> <li>2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.</li> </ol>

Walter O Krumbiege	WK-WC-2FL-TL	RM 19 TL	29.5	<ol style="list-style-type: none"> <li>1) Immediately discontinue use of the outlets.</li> <li>2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.</li> </ol>
Walter O Krumbiege	WK-WC-B-CR	HALL BY GIRLS RM	19.3	<ol style="list-style-type: none"> <li>1) Immediately discontinue use of the outlets.</li> <li>2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.</li> </ol>
Stadium	S-S-CS	CONCESSION STNAD	58.2	<ol style="list-style-type: none"> <li>1) Immediately discontinue use of the outlets.</li> <li>2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.</li> </ol>

## **Appendix C    All Results**

## AP Morris

Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
AP-WC-B-1A	HALL BY 1A	06/04/2022	<1.00
AP-WC-B-SHC	STAIR HALL C	06/04/2022	<1.00
AP-S-B-KIT	KITCHEN FP	06/04/2022	<1.00
AP-DW-B-159	RM 159	06/04/2022	<1.00
AP-DW-B-156	RM 156	06/04/2022	<1.00
AP-DW-B-153	RM 153	06/04/2022	<1.00
AP-DW-B-150	RM 150	06/04/2022	<1.00
AP-DW-B-147	RM 147	06/04/2022	<1.00
AP-DW-B-144	RM 144	06/04/2022	<1.00
AP-DW-B-141	RM 141	06/04/2022	<1.00
AP-DW-B-138	RM 138	06/04/2022	<1.00
AP-DW-B-135	RM 135	06/04/2022	<1.00
AP-DW-B-132	RM 132	06/04/2022	<1.00
AP-DW-B-129	RM 129	06/04/2022	<1.00
AP-DW-B-126	RM 126	06/04/2022	<1.00
AP-DW-B-174	RM 174	06/04/2022	<1.00
AP-DW-B-177	RM 177	06/04/2022	<1.00
AP-DW-B-162	RM 162	06/04/2022	<1.00
AP-DW-B-NO	NURSE OFFICE	06/04/2022	<1.00
AP-DW-B-114	RM 114	06/04/2022	<1.00
AP-DW-B-117	RM 117	06/04/2022	<1.00
AP-DW-B-120	RM 120	06/04/2022	<1.00
AP-DW-B-123	RM 123	06/04/2022	<1.00
AP-DW-B-171	RM 171	06/04/2022	<1.00
AP-DW-B-168	RM 168	06/04/2022	<1.00
AP-DW-B-165	RM 165	06/04/2022	<1.00
AP-DW-1FL-104	RM 104	06/04/2022	<1.00
AP-DW-1FL-101	RM 101	06/04/2022	5.10
AP-DW-2FL-H5	HALL BY RM 5	06/04/2022	<1.00
AP-DW-3FL-H17	HALL BY RM 17	06/04/2022	<1.00
AP-S-3FL-NB	NURSE BATH	06/04/2022	1.93
AP-BF-B-SHC	STAIR HALL C	06/04/2022	<1.00
AP-S1-B-KIT-L	KITCHEN LEFT SINK	06/04/2022	<1.00
AP-S1-B-KIT-R	KITCHEN RIGHT SINK	06/04/2022	<1.00
AP-AP-S-SR	SUNROOM	06/04/2022	<1.00
AP-BF-B-192	HALL BY MAIN OFFICE BF	06/04/2022	<1.00

AP-BF-3FL-H17	HALL BY RM 17	06/04/2022	<1.00
AP-BF-2FL-H5	HALL BY RM 5	06/04/2022	<1.00

## George Washington

Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
GW-WC-1FL-PEO	HALL BY PE OFFICE	06/04/2022	40.2
GW-WC-1FL-HO	HALL BY OFFICE	06/04/2022	3.61
GW-S-1FL-6	RM 6	06/04/2022	<1.00
GW-FP-1FL-K	KITCHEN FP	06/04/2022	2.37
GW-WC-1FL-2	RM 2 RM 101 HALL	06/04/2022	41.0
GW-WC-1FL-7	HALL BY RM 7	06/04/2022	9.44
GW-WC-1FL-8	RM 8 C201	06/04/2022	11.5
GW-S-2FL-TL	ROOM T	06/04/2022	<1.00
GW-WC-2FL-12	RM12 206	06/04/2022	13.5
GW-S-SR	SUNROOM	06/04/2022	<1.00
GW-S-1FL-NURSE	NURSE	06/04/2022	<1.00
GW-S-1FL-RM108	RM 108	06/04/2022	<1.00
GW-BF-1FL-110	RM 110	06/04/2022	<1.00

## Calvin Coolidge

Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
CC-WC-1FL-HS	HALL BY RM 5	06/04/2022	<1.00
CC-FP-1FL-KIT	KITCHEN	06/04/2022	<1.00
CC-S-1FL-NB	NURSE BATH	06/04/2022	<1.00
CC-DW-1FL-GYM	GYM	06/04/2022	<1.00
CC-WC-2FL-H10	HALL BY RM 10	06/04/2022	<1.00
CC-WC-2FL-H12	HALL BY RM 12	06/04/2022	1.06
CC-S-SR	SUN ROOM	06/04/2022	<1.00
CC-BF-1FL-H2	HALL BY RM 2	06/04/2022	<1.00

## Hillside High school

Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
HH-WC-1FL-CL	CAFETERIA LEFT	06/04/2022	16.3
HH-FP-1FL-K-1	KITCHEN LEFT	06/04/2022	1.60
HH-FP-1FL-K-2	KITCHEN LEFT	06/04/2022	<1.00
HH-FP-1FL-K-3	KITCHEN LEFT	06/04/2022	<1.00
HH-WC-1FL-H102	HALL BY RM 102	06/04/2022	2.64
HH-S-1FL-NO	NURSE OFFICE	06/04/2022	1.97
HH-S-1FL-NB	NURSE BATH	06/04/2022	2.97
HH-IM-1FL-NO	NURSE OFFICE	06/04/2022	<1.00
HH-WC-1FL-H130		06/04/2022	2.54
HH-S1-1FL-K-FRONT	KITCHEN FRONT WALL	06/04/2022	3.82
HH-S2-1FL-K-BACKLEFT	KITCHEN BACK LEFT	06/04/2022	1.36
HH-S3-1FL-K-BACKRIGH	KITCHEN BACK RIGHT	06/04/2022	<1.00
HH-S4-1FL-K-SIDERM	KITCHEN SIDE ROOM	06/04/2022	<1.00
HH-S-SR	SUNROOM	06/04/2022	<1.00
HH-WC-1FL-MR	HALL BY MUSIC RM	06/04/2022	1.69
HH-IM-1FL-TO	TRAINING OFFICE IM	06/04/2022	<1.00
HH-S-1FL-TO	TRAINING OFFICE S	06/04/2022	<1.00
HH-WC-2FL-215	HALL BY RM 215	06/04/2022	2.42
HH-WC-2FL-H211	HALL BY RM 211	06/04/2022	2.50
HH-WC-3FL-H307	HALL BY ROOM 307	06/04/2022	19.0
HH-WC-3FL-H302	HALL BY ROOM 302	06/04/2022	<1.00
HH-BF-1FL-H109	HALL BY RM 109	06/04/2022	<1.00
HH-BF-2FL-H235	HALL BY RM 235	06/04/2022	<1.00



## Walter O Krumbiege

Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
WK-FP-B-KIT	KITCHEN	06/04/2022	6.25
WK-WC-B-CR	HALL BY GIRLS RM	06/04/2022	19.3
WK-WC-1FL-5A	HALL BY 5A	06/04/2022	4.39
WK-WC-2FL-TL	RM 19 TL	06/04/2022	29.5
WK-WC-2FL-29	HALL BY ROOM 29	06/04/2022	3.46
WK-BF-B-HK	HALL BY KITCHEN	06/04/2022	<1.00
WK-S-B-NRSE	NURSE	06/04/2022	6.54
WK-IM-B-NURSE	NURSE	06/04/2022	<1.00
WK-S-TL	TEACHERS LOUNGE	06/04/2022	2.11
WK-S-SR	SUNROOM	06/04/2022	<1.00

## Saybrook Annex

Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
5A-WC-1FL-HALL	1ST HALL	06/04/2022	9.83
5A-WC-1FL-2FL	2ND HALL	06/04/2022	11.2
5A-WC-GB	GIRLS BATH	06/04/2022	<1.00
5A-S-NURSE	NURSE	06/04/2022	3.12
5A-BF-CAFE	CAFE	06/04/2022	<1.00
5A-S-SR	SUNROOM	06/04/2022	<1.00

## Stadium

Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
S-HB-TB	TEAM BUILDING OUTSIDE	06/04/2022	2.62
S-S-CS	CONCESSION STNAD	06/04/2022	58.2
S-S-SR	SUNROOM	06/04/2022	<1.00

## Hurden Looker

Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
HL-S-B-TL	TEACHERS LOUNGE	06/04/2022	1.16
HL-WC-2FL-H24	HALL BY 24	06/04/2022	<1.00
HL-WC-1FL-H20	HALL BY 20	06/04/2022	<1.00
HL-S-B-K-2	KITCHEN	06/04/2022	<1.00
HL-BF-1FL-H11	HALL BY ROOM 11	06/04/2022	<1.00
HL-DW-1FL-NO	NURSE OFFICE	06/04/2022	<1.00
HL-S-SR	SUNROOM	06/04/2022	<1.00
HL-S-B-K-1	Kitchen	06/04/2022	Lost in Transit
HL-WC-1FL-HMO	Hall by Main Office	06/04/2022	Lost in Transit

## Administration Building

Sample ID	Sample Location	Date Sampled	Concentration (ug/L)
1-AB-S-K	KITCHEN 2ND FL	06/04/2022	<1.00
2-AB-S-SR	SUNROOM	06/04/2022	<1.00

**Appendix D      Floor Plan(s)**

## **Appendix E      Laboratory Data**