

**Lead Testing Program
Statement of Assurance
(Non-Lead Testing Year)**

County: Essex

School District, Charter School, Renaissance school project, jointure commission, or other eligible organization as defined in N.J.A.C. 6A:26A-1:

Irvington Public Schools

Address: 1 University Place

Chief School Administrator (CSA): Dr. April Vauss

Telephone #: 973-399-6800 ext: 2110

CSA Email: avauss@irvington.k12.nj.us

Alternate Contact Person: Mr. Roger Monel

Telephone #: 973-399-6800 ext: 2121

Title: Associate Business Administrator

Email: rmonel@irvington.k12.nj.us

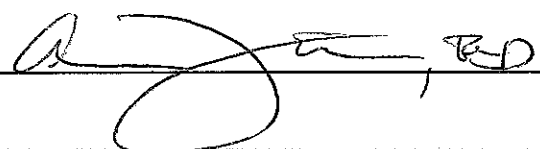
1. The school district, charter school, renaissance school, jointure commission, educational services commission, approved private school for students with disabilities acting under contract to provide educational services on behalf of New Jersey public school districts, state-funded early childcare facilities pursuant to N.J.A.C. 6A:13A, and receiving schools as defined by N.J.A.C. 6A:14-7.1(a) (hereinafter collectively referred to as "District"), has reviewed N.J.A.C. 6A:26 requiring testing for lead in drinking water and has provided assurance that lead testing has been completed within six (6) years in accordance with the technical guidelines established by the NJ Department of Environmental Protection. Additionally, all notifications of test results have been provided consistent with this subchapter, including the requirement to make the test results publicly available on the District's website, and alternate drinking water continues to be made available to all students and staff.
2. The date of the most recent lead testing conducted in accordance with the technical guidelines established by the NJ Department of Environment Protection was: 9/28/21.
3. The District will continue to fully implement the N.J.A.C. 6A:26-12.4 regulations.
4. The District will maintain compliance with all applicable laws, codes, and regulations governing the provision of potable drinking water and testing of drinking water for lead including, but not limited to, N.J.A.C. 6A:26-12.4; the Safe Drinking Water Act, N.J.S.A. 58:12A-1 et seq., and the rules promulgated pursuant thereto, N.J.A.C. 7:10 and N.J.A.C. 6A:26-6, Planning and Construction Standards for School Facilities.

Certification:

By signing below, the Chief School Administrator certifies that all statements above are true and correct:

Name: Dr. April Vauss

Title: Superintendent

Signature: 

Date: 9/28/21



THE Saban Engineering Group, Inc.

Environmental and Industrial Hygiene Professionals

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Sampling environmental solutions today...for tomorrow

September 20, 2021

Emailed to:
zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
AUGUSTA PRE-SCHOOL, 97 AUGUSTA STREET, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.2**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 2nd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 11 and September 1, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Fifty-four (54) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS AUGUSTA PRE-SCHOOL, 97 AUGUSTA STREET, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.2			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS - LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
APS-DW-1 st F-01	8/11/2021	1 st Floor / Hallway / Adjacent to Women's Bathroom	0.0005
APS-DW-2 nd -02	8/11/2021	2 nd Floor / Hallway / Adjacent to Women's Bathroom	<0.0005
APS-FB-03	8/11/2021	Field Blank	<0.0005
APS-FB-01	9/1/2021	Field Blank	<0.0005
APS-DW-1F-02	9/1/2021	1st Floor/ Classroom 101	0.0015
<u>APS-SK-1F-03</u>	<u>9/1/2021</u>	<u>1st Floor/ Classroom 101 - Sink</u>	<u>0.0291</u>
APS-DW-1F-04	9/1/2021	1st Floor/ Classroom 102	0.0007
APS-SK-1F-05	9/1/2021	1st Floor/ Classroom 102 - Sink	0.0025
APS-DW-1F-06	9/1/2021	1st Floor/ Classroom 103	0.0012
APS-SK-1F-07	9/1/2021	1st Floor/ Classroom 103 - Sink	0.0038
APS-DW-1F-08	9/1/2021	1st Floor/ Classroom 104	0.0103
APS-SK-1F-09	9/1/2021	1st Floor/ Classroom 104 - Sink	0.0126
APS-DW-1F-10	9/1/2021	1st Floor/ Classroom 105	0.0087
<u>APS-SK-1F-11</u>	<u>9/1/2021</u>	<u>1st Floor/ Classroom 105 - Sink</u>	<u>0.0182</u>
APS-DW-1F-12	9/1/2021	1st Floor/ Classroom 106	0.0011
<u>APS-SK-1F-13</u>	<u>9/1/2021</u>	<u>1st Floor/ Classroom 106 - Sink</u>	<u>0.0276</u>
APS-DW-1F-14	9/1/2021	1st Floor/ Classroom 107	0.0011
APS-SK-1F-15	9/1/2021	1st Floor/ Classroom 107 - Sink	0.0039



TABLE 2.1
DRINKING WATER SAMPLING RESULTS
AUGUSTA PRE-SCHOOL, 97 AUGUSTA STREET, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.2

SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
APS-DW-1F-16	9/1/2021	1st Floor/ Classroom 108	0.0017
APS-SK-1F-17	9/1/2021	1st Floor/ Classroom 108 - Sink	0.0085
APS-DW-1F-18	9/1/2021	1st Floor/ Classroom 109	0.0017
APS-SK-1F-19	9/1/2021	1st Floor/ Classroom 109 - Sink	0.0072
APS-DW-1F-20	9/1/2021	1st Floor/ Classroom 110	0.0016
APS-SK-1F-21	9/1/2021	1st Floor/ Classroom 110 - Sink	0.0030
APS-DW-1F-22	9/1/2021	1st Floor/ Classroom 111	0.0012
APS-SK-1F-23	9/1/2021	1st Floor/ Classroom 111 - Sink	0.0029
APS-DW-1F-24	9/1/2021	1st Floor/ Classroom 112	0.0007
APS-SK-1F-25	9/1/2021	1st Floor/ Classroom 112 - Sink	0.0018
APS-DW-2F-26	9/1/2021	2nd Floor/ Classroom 201	0.0032
APS-SK-2F-27	9/1/2021	2nd Floor/ Classroom 201 - Sink	0.0079
APS-DW-2F-28	9/1/2021	2nd Floor/ Classroom 202	0.0054
APS-SK-2F-29	9/1/2021	2nd Floor/ Classroom 202 - Sink	0.0060
APS-DW-2F-30	9/1/2021	2nd Floor/ Classroom 203	0.0063
APS-SK-2F-31	9/1/2021	2nd Floor/ Classroom 203 - Sink	0.0011
APS-DW-2F-32	9/1/2021	2nd Floor/ Classroom 204	No Water Supply at Faucet
APS-SK-2F-33	9/1/2021	2nd Floor/ Classroom 204 - Sink	0.0144
APS-DW-2F-34	9/1/2021	2nd Floor/ Classroom 205	0.0023
APS-SK-2F-35	9/1/2021	2nd Floor/ Classroom 205 - Sink	0.0018
APS-DW-2F-36	9/1/2021	2nd Floor/ Classroom 206	No Water Supply at Faucet
<u>APS-SK-2F-37</u>	<u>9/1/2021</u>	<u>2nd Floor/ Classroom 206 - Sink</u>	<u>0.0318</u>
APS-DW-2F-38	9/1/2021	2nd Floor/ Classroom 207	0.0023
APS-SK-2F-39	9/1/2021	2nd Floor/ Classroom 207 - Sink	0.0091
APS-DW-2F-40	9/1/2021	2nd Floor/ Classroom 208	0.0009



TABLE 2.1 DRINKING WATER SAMPLING RESULTS AUGUSTA PRE-SCHOOL, 97 AUGUSTA STREET, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.2			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
APS-SK-2F-41	9/1/2021	2 nd Floor/ Classroom 208 - Sink	0.0047
APS-DW-2F-42	9/1/2021	2 nd Floor/ Classroom 209	No Water Supply at Faucet
APS-SK-2F-43	9/1/2021	2 nd Floor/ Classroom 209 - Sink	0.0089
<u>APS-DW-2F-44</u>	<u>9/1/2021</u>	<u>2nd Floor/ Classroom 210</u>	<u>0.0211</u>
APS-SK-2F-45	9/1/2021	2 nd Floor/ Classroom 210 - Sink	0.0026
APS-DW-2F-46	9/1/2021	2 nd Floor/ Classroom 211	0.0008
APS-SK-2F-47	9/1/2021	2 nd Floor/ Classroom 211 - Sink	0.0087
APS-DW-2F-48	9/1/2021	2 nd Floor/ Classroom 212	<0.0005
APS-SK-2F-49	9/1/2021	2 nd Floor/ Classroom 212 - Sink	0.0093
APS-TL-1F-50	9/1/2021	2 nd Floor/ Teacher's Lounge	0.0011
APS-NS-1F-51	9/1/2021	2 nd Floor/ Nurse's Office - Sink	0.0021
APS-KC-1F-52	9/1/2021	1 st Floor/ Kitchen - Sink	0.0011
<u>APS-FP-1F-53</u>	<u>9/1/2021</u>	<u>1st Floor/ Kitchen – Food Preparation Sink</u>	<u>0.0447</u>
<u>APS-KC-1F-54</u>	<u>9/1/2021</u>	<u>1st Floor/ Kitchen - Sink</u>	<u>0.0534</u>
APS-IM-1F-55	9/1/2021	1 st Floor/ Kitchen – Ice Machine	No Water Supply at Faucet
REFERENCES: <ul style="list-style-type: none"> • State of New Jersey Department of Education lead testing regulations, • United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			

3.0 **RECOMMENDATIONS AND CONCLUSIONS**

The results show there were seven (7) exceedances of lead in the fifty-four (54) locations sampled, highlighted in **bold and underlined** in Table 2.1.

An investigation into the source of lead with follow-up testing is being recommended.

4.0 **REPORT QUALIFICATIONS**

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot

MS. ZORANA FIGUEROA
IRVINGTON BOARD OF EDUCATION
SUPERVISOR OF BUILDINGS AND GOUNDS
RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
AUGUSTA PRE-SCHOOL, 97 AUGUSTA STREET, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.2
SEPTEMBER 20, 2021



guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



September 20, 2021

Emailed to:
zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
BERKELEY TERRACE ELEMENTARY SCHOOL, 787 BERKELEY TERRACE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.3**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 3rd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 11 and September 1, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Thirteen (13) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS BERKELEY TERRACE ELEMENTARY SCHOOL, 787 BERKELEY TERRACE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.3			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
BTS-DW-1 st FL-01	8/11/2021	1 st Floor / Hallway / Across Room 114	<0.0005
BTS-DW-1 st FL-02	8/11/2021	1 st Floor / Hallway / Across Room 105	<0.0005
BTS-DW-1 st FL-03	8/11/2021	1 st Floor / Hallway / Adjacent to Gymnasium	No Water Supply at Faucet
BTS-DW-1 st FL-04	8/11/2021	1 st Floor / Hallway / Adjacent to Gym Bottle Filling Unit	No Water Supply at Faucet
BTS-DW-2 nd FL-05	8/11/2021	2 nd Floor / Hallway / Across Room 216	<0.0005
BTS-DW-2 nd FL-06	8/11/2021	2 nd Floor / Hallway / Adjacent to Room 206	<0.0005
BTS-DW-3 rd FL-07	8/11/2021	3 rd Floor / Hallway / Opposite to Classroom 316	<0.0005
BTS-DW-3 rd FL-08	8/11/2021	3 rd Floor / Hallway / Opposite to Classroom 305	<0.0005
BTS-FB-09	8/11/2021	Field Blank	<0.0005
BTS-FB-01	9/1/2021	Field Blank	<0.0005
BTS-KC-1F-02	9/1/2021	1 st Floor/ Kitchen	0.0014
BTS-KC-1F-03	9/1/2021	1 st Floor/ Kitchen	0.0022
BTS-SK-1F-04	9/1/2021	1 st Floor/ Custodian Office	0.0035
BTS-SK-1F-05	9/1/2021	1 st Floor/ Room 105	0.0051
<u>BTS-SK-1F-06</u>	<u>9/1/2021</u>	<u>1st Floor/ Room 106</u>	<u>0.0201</u>
REFERENCES:			
<ul style="list-style-type: none"> • State of New Jersey Department of Education lead testing regulations, • United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			



3.0 **RECOMMENDATIONS AND CONCLUSIONS**

The results show there was one (1) exceedance of lead in the thirteen (13) locations sampled, highlighted in **bold and underlined** in Table 2.1.

An investigation into the source of the Lead with follow-up testing is being recommended.

4.0 **REPORT QUALIFICATIONS**

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



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September 20, 2021

Emailed to:

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Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
BLUE KNIGHTS ACADEMY, 36 MOUNT VERNON AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.4**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the Ground to the 2nd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 11 September 7, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Nine (9) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS BLUE KNIGHTS ACADEMY, 36 MOUNT VERNON AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.4			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS LEAD
<i>Maximum Contaminant Levels (MCLs): NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
MES-DW-2 nd FL-01	8/11/2021	2 nd Floor / Hallway / Opposite to Classroom 25	Not Present
<u>MES-DW-2ndFL-02</u>	<u>8/11/2021</u>	<u>2nd Floor / Hallway / Opposite to Classroom 26</u>	<u>0.0328</u>
MES-DW-2 nd FL-03	8/11/2021	2 nd Floor / Hallway / Adjacent to Classroom 20	<0.0005
MES-DW-1 st FL-04	8/11/2021	1 st Floor / Hallway / Opposite to Classroom 17	Not Present
MES-DW-1 st FL-05	8/11/2021	1 st Floor / Hallway / Opposite to Classroom 14	Not Present
MES-DW-1 st FL-06	8/11/2021	1 st Floor / Hallway / Adjacent to Girl's Bathroom	0.0026
<u>MES-DW-GF-07</u>	<u>8/11/2021</u>	<u>Ground Floor / Hallway / Opposite to Music Room 4</u>	<u>0.0724</u>
<u>MES-DW-GF-08</u>	<u>8/11/2021</u>	<u>Ground Floor / Hallway / Opposite to Parents Resource Room 3</u>	<u>0.0752</u>
MES-FB-09	8/11/2021	Field Blank	<0.0005
BAK-FB-01	9/7/2021	Field Blank	<0.0005
<u>BAK- TL-2F-02</u>	<u>9/7/2021</u>	<u>2nd Floor/ Teacher' Lounge</u>	<u>0.0421</u>
BAK- NS-1F-03	9/7/2021	1 st Floor/ Nurse Office	0.0025
REFERENCES:			
<ul style="list-style-type: none"> State of New Jersey Department of Education lead testing regulations, United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			

3.0 **RECOMMENDATIONS AND CONCLUSIONS**

The results show there were four (4) exceedances of lead in the nine (9) locations sampled, highlighted in **bold and underlined** in Table 2.1.

An investigation into the source of the lead with follow-up testing is being recommended.



4.0 REPORT QUALIFICATIONS

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time -- how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



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September 20, 2021

Emailed to:
zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
CHANCELLOR AVENUE ELEMENTARY SCHOOL,
844 CHANCELLOR AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.6**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 3rd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 12 and September 7, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Fourteen (14) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS CHANCELLOR AVENUE ELEMENTARY SCHOOL, 844 CHANCELLOR AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.6			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
CAS-FB-01	8/12/2021	Field Blank	<0.0005
CAS-DW-1F-02	8/12/2021	1 st Floor / Hallway / Adjacent to Girl's Toilet	0.0039
CAS-KC-1F-03	8/12/2021	1 st Floor / Hallway / Kitchen Outlet Cold	0.0062
CAS-DW-1F-04	8/12/2021	1 st Floor / Hallway / Adjacent to Kitchen Entrance	<0.0005
CAS-DW-2F-05	8/12/2021	2 nd Floor / Hallway / Adjacent to Room 204	0.0022
CAS-DW-2F-06	8/12/2021	2 nd Floor / Hallway / Opposite to Room 208	<0.0005
CAS-DW-2F-07	8/12/2021	2 nd Floor / Hallway / Opposite to Room 205	<0.0005
CAS-DW-3F-08	8/12/2021	3 rd Floor / Hallway / Adjacent to Room 304	<0.0005
CAS-DW-3F-09	8/12/2021	3 rd Floor / Hallway / Adjacent to Room 305	<0.0005
CAS-FB-01	9/7/2021	Field Blank	<0.0005
CAS-NS-2F-02	9/7/2021	2 nd Floor/ Nurse's Office	0.0053
CAS-SK-2F-03	9/7/2021	2 nd Floor/ Main Office	0.0019
CAS-SK-1F-04	9/7/2021	1st Floor/ Classroom # 108	0.0160
CAS-SK-1F-05	9/7/2021	1 st Floor/ Classroom # 106	No Water Supply at Faucet
CAS-SK-1F-06	9/7/2021	1 st Floor/ Classroom # 104/ Art Room	0.0053
REFERENCES:			
<ul style="list-style-type: none"> • State of New Jersey Department of Education lead testing regulations, • United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			



3.0 RECOMMENDATIONS AND CONCLUSIONS

The results show there was one (1) exceedance of lead in the fourteen (14) locations sampled, highlighted in **bold and underlined** in Table 2.1.

An investigation into the source of the lead with follow-up testing is being recommended.

4.0 REPORT QUALIFICATIONS

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Stephen Pharai', written over a horizontal line.

Stephen Pharai
Program Director



September 20, 2021

Emailed to:
zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
FLORENCE AVENUE SCHOOL, 1324 SPRINGFIELD AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.7**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the Ground to the 2nd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 12 and September 7, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Nine (9) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS FLORENCE AVENUE SCHOOL, 1324 SPRINGFIELD AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.7			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS - LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
FAS-FB-01	8/12/2021	Field Blank	<0.0005
FAS-DW-2F-02	8/12/2021	2 nd Floor / Hallway / Adjacent to Classroom 207	No Water Supply at Faucet
FAS-DW-2F-03	8/12/2021	2 nd Floor / Hallway / Adjacent to Boy's Toilet	0.0059
FAS-DW-1F-04	8/12/2021	1 st Floor / Hallway / Adjacent to Classroom 105	No Water Supply at Faucet
FAS-DW-1F-05	8/12/2021	1 st Floor / Hallway / Adjacent to Boy's Toilet	0.0035
FAS-DW-1F-06	8/12/2021	1 st Floor / Hallway / Adjacent to Cafeteria 109	0.0009
FAS-DW-1F-07	8/12/2021	1 st Floor / Hallway / Adjacent to Classroom 106	Not Present
FAS-DW-1F-08	8/12/2021	1 st Floor / Hallway / Opposite to Room 108 Adjacent to Cafeteria	Not Present
FAS-DW-1F-09	8/12/2021	1 st Floor / Hallway / Opposite to Room 108 Adjacent to Classroom 106B	Not Present
FAS-DW-GF-10	8/12/2021	Ground Floor / Hallway / Adjacent to Girl's Toilet	0.0032
FAS-DW-GF-11	8/12/2021	Ground Floor / Hallway / Adjacent to Corridor Entrance Door	Not Present
FAS-DW-GF-12	8/12/2021	Ground Floor / Hallway / Adjacent to Exit Doors	Not Present
FAS-DW-GF-13	8/12/2021	Ground Floor / Hallway / Adjacent to Classroom 20B (4-2)	Not Present
FAS-FB-01	9/7/2021	Field Blank	<0.0005
FAS-NS-1F-02	9/7/2021	1 st Floor/ Nurse's Office	0.0022
FAS-TL-1F-03	9/7/2021	1 st Floor/ Teacher's Lounge	0.0021
FAS-KC-1F-04	9/7/2021	1 st Floor/ Kitchen Outlet	0.0011
REFERENCES:			



TABLE 2.1 DRINKING WATER SAMPLING RESULTS FLORENCE AVENUE SCHOOL, 1324 SPRINGFIELD AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.7			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
<ul style="list-style-type: none">• State of New Jersey Department of Education lead testing regulations,• United States Environmental Protection Agency's Lead and Copper Rule (LCR)			

3.0 RECOMMENDATIONS AND CONCLUSIONS

The results show there were no exceedances in the nine (9) locations sampled.

No further action is being recommended at this time.

4.0 REPORT QUALIFICATIONS

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



APPENDIX A

CERTIFICATE OF ANALYSIS FOR LEAD



Wednesday, August 25, 2021

Attn:

The Saban Engineering Group, Inc
1001 Avenue of Americas 12th Fl
New York, New York 10018

Project ID: FLORENCE AVENUE SCHOOL
SDG ID: GCI97927
Sample ID#s: CI97927, CI97929, CI97931 - CI97932, CI97936

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



THE Saban Engineering Group, Inc.

Environmental and Industrial Hygiene Professionals

201 Stuyvesant Avenue | Lyndhurst | New Jersey 07071

Tel 201-299-7710 | Fax 201-299-7720 | saban@sabancorp.com | www.sabancorp.com

...ensuring environmental safety and health for all

September 20, 2021

Emailed to:

zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
GROVE STREET SCHOOL, 594 GROVE STREET, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.8**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 3rd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 12 and September 7, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Sixteen (16) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS GROVE STREET SCHOOL, 594 GROVE STREET, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.8			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS - LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
GSS-FB-01	8/12/2021	Field Blank	<0.0005
GSS-DW-1F-02	8/12/2021	1 st Floor / Hallway / Opposite to Office #111	<0.0005
GSS-DW-1F-03	8/12/2021	1 st Floor / Hallway / Opposite to Office 111 – Bottle Filling Unit	<0.0005
GSS-DW-1F-04	8/12/2021	1 st Floor / Hallway / Adjacent to Stock Room252	0.0130
GSS-DW-1F-05	8/12/2021	1 st Floor / Hallway / Adjacent to Male Bathroom	Not Present
GSS-DW-1F-06	8/12/2021	1 st Floor / Hallway / Adjacent to Utility Room 025	Not Present
GSS-DW-1F-07	8/12/2021	1 st Floor / Hallway / Adjacent to Room 014	<0.0005
GSS-DW-1F-08	8/12/2021	1 st Floor / Hallway / Adjacent to Room 014 – Bottle Filling Unit	<0.0005
GSS-DW-2F-09	8/12/2021	2 nd Floor / Hallway / Adjacent to Classroom 207	<0.0005
GSS-DW-2F-10	8/12/2021	2 nd Floor / Hallway / Adjacent to Classroom 207 – Bottle Filling Unit	<0.0005
GSS-DW-3F-11	8/12/2021	3rd Floor / Hallway / Adjacent to Room 314	0.137
GSS-DW-3F-12	8/12/2021	3 rd Floor / Hallway / Adjacent to Room 307	<0.0005
GSS-DW-3F-13	8/12/2021	3 rd Floor / Hallway / Adjacent to Room 307 – Bottle Filling Unit	<0.0005
GSS-FB-01	9/7/2021	Field Blank	<0.0005
GSS-DW-1F-02	9/7/2021	1 st Floor/ Classroom 108	<0.0005
GSS-NS-1F-03	9/7/2021	1 st Floor/ Nurse's Office	0.0053
GSS-DW-1F-04	9/7/2021	1 st Floor/ Classroom 105	<0.0005
GSS-DW-1F-05	9/7/2021	1 st Floor/ Teacher's Lounge	No Water Supply at Faucet



TABLE 2.1 DRINKING WATER SAMPLING RESULTS GROVE STREET SCHOOL, 594 GROVE STREET, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.8			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
<u>GSS-KC-1F-06</u>	<u>9/7/2021</u>	<u>1st Floor/ Kitchen Sink Cold</u>	<u>0.0160</u>
REFERENCES:			
<ul style="list-style-type: none">• State of New Jersey Department of Education lead testing regulations,• United States Environmental Protection Agency's Lead and Copper Rule (LCR)			

3.0 **RECOMMENDATIONS AND CONCLUSIONS**

The results show there were two (2) exceedances of lead in the sixteen (16) locations sampled, highlighted in **bold and underlined** in Table 2.1.

An investigation into the source of the lead with follow-up testing is being recommended.

4.0 **REPORT QUALIFICATIONS**

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



THE Saban Engineering Group, Inc.
Environmental and Industrial Hygiene Professionals

201 Stuyvesant Avenue | Lyndhurst | New Jersey | 07071
Tel 201-299-7710 | Fax 201-299-7720 | saban@sabancorp.com | www.sabancorp.com
ensuring environmental success today...for tomorrow

September 20, 2021

Emailed to:
zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
MADISON AVENUE SCHOOL, 163 MADISON AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.9**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 3rd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 12 and September 7, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Thirty-one (31) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS MADISON AVENUE SCHOOL, 163 MADISON AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.9			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS - LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
MAS-FB-01	8/12/2021	Field Blank	<0.0005
MAS-DW-3F-02	8/12/2021	3 rd Floor / Hallway / Opposite to Janitor's Closet 309 – Bottle Filling Unit	<0.0005
MAS-DW-3F-03	8/12/2021	3 rd Floor / Hallway / Opposite to Janitor's Closet 309	<0.0005
MAS-DW-3F-04	8/12/2021	3 rd Floor / Hallway / Opposite to Room 320-1DF	<0.0005
MAS-DW-3F-05	8/12/2021	3 rd Floor / Hallway / Opposite to Room 320 – 10F – Bottle Filling Unit	<0.0005
MAS-DW-2F-06	8/12/2021	2 nd Floor / Hallway / Adjacent to Media Center 203	<0.0005
MAS-DW-2F-07	8/12/2021	2 nd Floor / Hallway / Adjacent to Media Center 203 – Bottle Filling Unit	<0.0005
MAS-DW-2F-08	8/12/2021	2 nd Floor / Hallway / Adjacent to Boy's Toilet	<0.0005
MAS-DW-2F-09	8/12/2021	2 nd Floor / Hallway / Adjacent to Boy's Toilet – Bottle Filling Unit	<0.0005
MAS-DW-1F-10	8/12/2021	1 st Floor / Hallway / Adjacent to Cafeteria 116	<0.0005
MAS-DW-1F-11	8/12/2021	1 st Floor / Hallway / Adjacent to Boy's Toilet	<0.0005
MAS-DW-1F-12	8/12/2021	1 st Floor / Hallway / Adjacent to Boy's Toilet – Bottle Filling Unit	No Water Supply at Faucet
MAS-FB-01	9/7/2021	Field Blank	<0.0005
MAS-NS-1F-02	9/7/2021	1 st Floor/ Nurse's Office #112	0.0012
MAS-NS-1F-03	9/7/2021	1 st Floor/Nurse's Inside Office #112A	0.0026
MAS-TL-1F-04	9/7/2021	1 st Floor/ Teacher's Lounge	0.0057
MAS-KC-1F-05	9/7/2021	1 st Floor/ Kitchen Sink 1	0.0041
MAS-FP-1F-06	9/7/2021	1 st Floor/ Kitchen Food Preparation Sink	0.0006



TABLE 2.1 DRINKING WATER SAMPLING RESULTS MADISON AVENUE SCHOOL, 163 MADISON AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.9			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
MAS-KC-1F-07	9/7/2021	1 st Floor/ Kitchen Sink 2/ Adj. to Room 117B	0.0038
MAS-KC-1F-08	9/7/2021	1 st Floor/ Kitchen - 3 Compartment Sink	0.0007
MAS-IM-1F-09	9/7/2021	1 st Floor/ Kitchen Ice Machine	<0.0005
MAS-DW-1F-10	9/7/2021	1 st Floor/ Classroom # 105	0.0023
MAS-DW-1F-11	9/7/2021	1 st Floor/ Classroom # 106	0.0031
MAS-DW-1F-12	9/7/2021	1 st Floor/ Classroom #107	0.0056
MAS-DW-1F-13	9/7/2021	1 st Floor/ Classroom # 108	0.0006
MAS-DW-1F-14	9/7/2021	1 st Floor/ Classroom # 109	0.0009
MAS-DW-1F-15	9/7/2021	1 st Floor/ Classroom # 110	0.0018
MAS-DW-2F-16	9/7/2021	2 nd Floor/ Classroom # 208	0.0014
MAS-DW-2F-17	9/7/2021	2 nd Floor/ Classroom # 207	<0.0005
MAS-DW-2F-18	9/7/2021	2 nd Floor/ Classroom # 209	<0.0005
MAS-DW-2F-19	9/7/2021	2 nd Floor/ Classroom # 210	0.0015
MAS-DW-2F-20	9/7/2021	2 nd Floor/ Teacher's Workroom – Bottle Filling Unit	<0.0005
REFERENCES: <ul style="list-style-type: none"> • State of New Jersey Department of Education lead testing regulations, • United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			

3.0 RECOMMENDATIONS AND CONCLUSIONS

The results show there were no exceedances in the thirty-one (31) locations sampled.

No further action is being recommended at this time.

4.0 REPORT QUALIFICATIONS

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to

MS. ZORANA FIGUEROA
IRVINGTON BOARD OF EDUCATION
SUPERVISOR OF BUILDINGS AND GOUNDS
RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
MADISON AVENUE SCHOOL, 163 MADISON AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.9
SEPTEMBER 20, 2021



general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



THE Saban Engineering Group, Inc.

Environmental and Industrial Hygiene Professionals

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designing environmental solutions today...for tomorrow

September 20, 2021

Emailed to:

zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
MOUNT VERNON AVENUE ELEMENTARY SCHOOL,
54 MOUNT VERNON AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.5**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 3rd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 11 and September 1, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Fifty-three (53) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS MOUNT VERNON AVENUE ELEMENTARY SCHOOL, 54 MT VERNON AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.5			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
<i>Maximum Contaminant Levels (MCLs) / NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
MVES-DW-1 st FL-01	8/11/2021	1 st Floor / Hallway / Adjacent to Boy's Toiler 106 - Adults	No Water Supply at Faucet
MVES-DW-1 st FL-02	8/11/2021	1 st Floor / Hallway / Adjacent to Boy's Toiler 106 - Kids	No Water Supply at Faucet
MVES-DW-1 st FL-03	8/11/2021	1 st Floor / Hallway / Central Corridor - Adults	<0.0005
MVES-DW-1 st FL-04	8/11/2021	1 st Floor / Hallway / Central Corridor – Kids	0.0007
MVES-DW-1 st FL-05	8/11/2021	1 st Floor / Hallway / Adjacent to Janitor's Closet - Adults	<0.0005
MVES-DW-1 st FL-06	8/11/2021	1 st Floor / Hallway / Adjacent to Janitor's Closet - Kids	0.0008
MVES-DW-2 nd FL-07	8/11/2021	2 nd Floor / Hallway / Adjacent to Classroom 209	0.0005
MVES-DW-2 nd FL-08	8/11/2021	2 nd Floor / Hallway / Adjacent to Girl's Toiler 236 - Adults	<0.0005
MVES-DW-2 nd FL-09	8/11/2021	2 nd Floor / Hallway / Adjacent to Girl's Toiler 236 - Kids	0.0007
MVES-DW-3 rd FL-10	8/11/2021	3 rd Floor / Hallway / Adjacent to Girl's Toiler 330 - Adults	<0.0005
MVES-DW-3 rd FL-11	8/11/2021	3 rd Floor / Hallway / Adjacent to Girl's Toiler 330 - Kids	0.0007
MVES-FB-12	8/11/2021	Field Blank	<0.0005
MV-FB-01	9/1/2021	Field Blank	<0.0005
MV-KC-1F-02	9/1/2021	1 st Floor/ Kitchen	0.0050
MV-KC-1F-03	9/1/2021	1 st Floor/ Kitchen	0.0015
MV-KC-1F-04	9/1/2021	1 st Floor/ Kitchen	0.0051
MV-TL-1F-05	9/1/2021	1 st Floor/ Teacher's Lounge	0.0027
MV-DW-1F-06	9/1/2021	1 st Floor/ Nurse's Office	No Water Supply at Faucet



TABLE 2.1 DRINKING WATER SAMPLING RESULTS MOUNT VERNON AVENUE ELEMENTARY SCHOOL, 54 MT VERNON AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.5			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
MV-NS-1F-07	9/1/2021	1 st Floor/ Nurse's Office	0.0009
MV-DW-1F-08	9/1/2021	1 st Floor/ Classroom 131	0.0051
MV-DW-1F-09	9/1/2021	1 st Floor/ Classroom 126	0.0019
MV-DW-1F-10	9/1/2021	1 st Floor/ Classroom 133	0.0020
MV-DW-1F-11	9/1/2021	1 st Floor/ Classroom 128	0.0022
MV-DW-1F-12	9/1/2021	1 st Floor/ Hallway Adj. to Junior's Closet 130	<0.0005
MV-DW-1F-13	9/1/2021	1 st Floor/ Hallway Adj. to Junior's Closet 130 - Bottle Filling Unit	<0.0005
MV-DW-1F-14	9/1/2021	1 st Floor/ Classroom 135	0.0041
<u>MV-DW-1F-15</u>	<u>9/1/2021</u>	<u>1st Floor/ Classroom 136</u>	<u>0.0264</u>
MV-DW-1F-16	9/1/2021	1 st Floor/ Classroom 139	0.0037
MV-DW-1F-17	9/1/2021	1 st Floor/ Classroom 138	0.0026
MV-DW-1F-18	9/1/2021	1 st Floor/ Classroom 140	0.0024
MV-DW-1F-19	9/1/2021	1 st Floor/ Classroom 141	0.0139
MV-DW-1F-20	9/1/2021	1 st Floor/ Classroom 142	0.0027
MV-DW-1F-21	9/1/2021	1 st Floor/ Classroom 143	0.0027
MV-DW-2F-22	9/1/2021	2 nd Floor/ Classroom 215	<0.0005
MV-TL-2F-23	9/1/2021	2 nd Floor/ Teacher's Room 217	0.0036
<u>MV-DW-2F-24</u>	<u>9/1/2021</u>	<u>2nd Floor/ Classroom 226</u>	<u>0.0672</u>
MV-DW-2F-25	9/1/2021	2 nd Floor/ Classroom 231	0.0015
MV-DW-2F-26	9/1/2021	2 nd Floor/ Classroom 228	0.0050
MV-DW-2F-27	9/1/2021	2 nd Floor/ Classroom 223	0.0029
MV-DW-2F-28	9/1/2021	2 nd Floor/ Hallway Adj. to Girl's Bathroom	<0.0005
MV-DW-2F-29	9/1/2021	2 nd Floor/ Hallway Adj. to Girl's Bathroom - Bottle Filling Unit	<0.0005
MV-DW-2F-30	9/1/2021	2 nd Floor/ Classroom 238	0.0135
MV-DW-2F-31	9/1/2021	2 nd Floor/ Classroom 240	0.0011



TABLE 2.1 DRINKING WATER SAMPLING RESULTS MOUNT VERNON AVENUE ELEMENTARY SCHOOL, 54 MT VERNON AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.5			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
MV-DW-2F-32	9/1/2021	2 nd Floor/ Classroom 241	0.0029
MV-DW-2F-33	9/1/2021	2 nd Floor/ Classroom 242	0.0010
MV-DW-2F-34	9/1/2021	2 nd Floor/ Classroom 243	0.0012
<u>MV-DW-3F-35</u>	<u>9/1/2021</u>	<u>3rd Floor/ Classroom 331</u>	<u>0.0309</u>
MV-DW-3F-36	9/1/2021	3 rd Floor/ Classroom 326	0.0044
MV-DW-3F-37	9/1/2021	3 rd Floor/ Classroom 333	0.0043
MV-DW-3F-38	9/1/2021	3 rd Floor/ Classroom 328	No Water Supply at Faucet
MV-DW-3F-39	9/1/2021	3 rd Floor Hallway/ Adj. to Girl's Bathroom	<0.0005
MV-DW-3F-40	9/1/2021	3 rd Floor Hallway/ Adj. to Girl's Bathroom - Bottle Filling Unit	<0.0005
MV-DW-3F-41	9/1/2021	3 rd Floor/ Classroom 338	0.0022
MV-DW-3F-42	9/1/2021	3 rd Floor/ Classroom 340	0.0013
MV-DW-3F-43	9/1/2021	3 rd Floor/ Classroom 341	0.0013
MV-DW-3F-44	9/1/2021	3 rd Floor/ Classroom 342	0.0021
MV-DW-3F-45	9/1/2021	3 rd Floor/ Classroom 343	0.0010
REFERENCES:			
<ul style="list-style-type: none"> • State of New Jersey Department of Education lead testing regulations, • United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			

3.0 **RECOMMENDATIONS AND CONCLUSIONS**

The results show there were three (3) exceedances of lead in the fifty-three (53) locations sampled, highlighted in **bold and underlined** in Table 2.1.

An investigation into the source of the lead with follow-up testing is being recommended.

4.0 **REPORT QUALIFICATIONS**

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to

MS. ZORANA FIGUEROA
IRVINGTON BOARD OF EDUCATION
SUPERVISOR OF BUILDINGS AND GOUNDS
RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
MOUNT VERNON AVENUE ELEMENTARY SCHOOL, 54 MOUNT VERNON AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.5
SEPTEMBER 20, 2021



general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,



Stephen Pharaï
Program Director



APPENDIX A

CERTIFICATE OF ANALYSIS FOR LEAD



THE Saban Engineering Group, Inc.

Environmental and Industrial Hygiene Professionals

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designing environmental solutions today, for tomorrow

September 20, 2021

Emailed to:

zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
THURGOOD MARSHALL SCHOOL, 141 MONTGOMERY AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.10**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 2nd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 16 and September 7, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Fourteen (14) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS THURGOOD MARSHALL SCHOOL, 141 MONTGOMERY AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.10			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
TMS-FB-01	8/16/21	Field Blank	<0.0005
TMS-DW-2F-02	8/16/21	2 nd Fl/ Hallway/ Opposite to Classroom 205	No Water Supply at Faucet
TMS-DW-2F-03	8/16/21	2 nd Fl/ Hallway/ 3 rd DW from Room 206	No Water Supply at Faucet
TMS-DW-2F-04	8/16/21	2 nd Fl/ Hallway/ 2 nd DW from Room 206	No Water Supply at Faucet
TMS-DW-2F-05	8/16/21	2 nd Fl/ Hallway/ 1 st DW from Room 206	No Water Supply at Faucet
TMS-DW-2F-06	8/16/21	2 nd Fl/ Hallway/ Adj. to Girl's Toilet 2005	<0.0005
TMS-DW-2F-07	8/16/21	2 nd Fl/ Hallway/ Adj. to Computer Room 216	No Water Supply at Faucet
TMS-DW-1F-08	8/16/21	1 st Fl/ Hallway/ Adj. to Guidance Room 120	0.0008
TMS-DW-1F-09	8/16/21	1 st Fl/ Hallway/ Adj. to Girl's Toilet 1005	<0.0005
TMS-DW-1F-10	8/16/21	1 st Fl/ Gym/ 1 st DW Adj. to Boy's Locker 1086	No Water Supply at Faucet
TMS-DW-1F-11	8/16/21	1 st Fl/ Gym/ 2 nd DW Adj. to Boy's Locker 1086	No Water Supply at Faucet
TMS-DW-1F-12	8/16/21	1 st Fl/ Hallway/ 1 st DW Adj. to Girl's Locker 1095	No Water Supply at Faucet
TMS-DW-1F-13	8/16/21	1 st Fl/ Hallway/ 2 nd DW Adj. to Girl's Locker 1095	No Water Supply at Faucet
TMS-DW-1F-14	8/16/21	1 st Fl/ Hallway/ 1 st DW Adj. to Girl's Toilet 1005	0.0037
TMS-DW-1F-15	8/16/21	1 st Fl/ Hallway/ 2 nd DW Adj. to Girl's Toilet 1005	0.0027
TMS-DW-1F-16	8/16/21	1 st Fl/ Hallway/ 3 rd DW Adj. to Girl's Toilet 1005	0.0139
TMS-DW-1F-17	8/16/21	1 st Fl/ Hallway/ 4 th DW Adj. to Girl's Toilet 1005	0.0041
TMS-FB-01	9/7/2021	Field Blank	<0.0005



TABLE 2.1 DRINKING WATER SAMPLING RESULTS THURGOOD MARSHALL SCHOOL, 141 MONTGOMERY AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.10			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
TMS-TL-1F-02	9/7/2021	1 st Floor/ Teacher's Lounge	0.0030
TMS-NS-1F-03	9/7/2021	1 st Floor/ Nurse's Office	0.0016
TMS-FP-1F-04	9/7/2021	1 st Floor/ Kitchen Food Preparation Sink	0.0077
TMS-KC-1F-05	9/7/2021	1 st Floor/ Kitchen Sink Adj. to Room # 134	0.0025
TMS-KC-1F-06	9/7/2021	1 st Floor/ Kitchen/ Three Compartment Sink	Sample Not Collected
TMS-KC-1F-07	9/7/2021	1 st Floor/ Kitchen/ Three Compartment Sink - Adj. to Exit	0.0021
REFERENCES: <ul style="list-style-type: none"> • State of New Jersey Department of Education lead testing regulations, • United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			

3.0 **RECOMMENDATIONS AND CONCLUSIONS**

The results show there were no exceedances in the fourteen (14) locations sampled.

No further action is being recommended at this time.

4.0 **REPORT QUALIFICATIONS**

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

MS. ZORANA FIGUEROA
IRVINGTON BOARD OF EDUCATION
SUPERVISOR OF BUILDINGS AND GOUNDS
RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
THURGOOD MARSHALL SCHOOL, 141 MONTGOMERY AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.10
SEPTEMBER 20, 2021



We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



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September 20, 2021

Emailed to:
zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

RE: DRINKING WATER SAMPLING & ANALYSIS
UNIVERSITY ELEMENTARY SCHOOL, 1 UNIVERSITY PLACE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.12

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 4th floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 16 and September 8, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Fifty-one (51) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS UNIVERSITY ELEMENTARY SCHOOL, 1 UNIVERSITY PLACE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.12			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS - LEAD
<i>Maximum Contaminant Levels (MCLs): NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
UES-FB-01	8/16/2021	Field Blank	<0.0005
UES-DW-1F-02	8/16/2021	1 st FI/ Hallway/ Adj. to Stairwell #1	<0.0005
UES-DW-1F-03	8/16/2021	1 st FI/ Hallway/ 2 nd DW from Stairwell #1	No Water Supply at Faucet
UES-DW-1F-04	8/16/2021	1 st FI/ Hallway/ 2 nd DW from Stairwell #1- Bottle Filling Unit	<0.0005
UES-DW-1F-05	8/16/2021	1 st FI/ Hallway/ Adj. to Mechanical Room 159	<0.0005
UES-DW-1F-06	8/16/2021	1 st FI/ Hallway/ 2 nd DW from Mechanical Room 159	<0.0005
UES-DW-2F-07	8/16/2021	2 nd FI/ Hallway/ Adj. to Data Room 211	<0.0005
UES-DW-2F-08	8/16/2021	2 nd FI/ Hallway/ Adj. to Data Room 218	<0.0005
UES-DW-2F-09	8/16/2021	2 nd FI/ Hallway/ Adj. to Data Room 218 – Bottle Filling Unit	No Water Supply at Faucet
UES-DW-2F-10	8/16/2021	2 nd FI/ Hallway/ Adj. to Junior's Closet 240	<0.0005
UES-DW-2F-11	8/16/2021	2 nd FI/ Hallway/ Adj. to Junior's Closet 240 – Bottle Filling Unit	<0.0005
UES-DW-3F-12	8/16/2021	2 nd FI/ Hallway/ 2 nd DW from Junior's Closet 240	No Water Supply at Faucet
UES-DW-3F-13	8/16/2021	3 rd FI/ Hallway/ Adj. to Data Room 318	<0.0005
UES-DW-3F-14	8/16/2021	3 rd FI/ Hallway/ Adj. to Data Room 318 – Bottle Filling Unit	<0.0005
UES-DW-3F-15	8/16/2021	3 rd FI/ Hallway/ Adj. to Boy's Bathroom 317	No Water Supply at Faucet
UES-DW-3F-16	8/16/2021	3 rd FI/ Hallway/ Adj. to Men's Bathroom 338	<0.0005
UES-DW-3F-17	8/16/2021	3 rd FI/ Hallway/ Adj. to Men's Bathroom 338 - Bottle Filling Unit	<0.0005
UES-DW-3F-18	8/16/2021	3 rd FI/ Hallway/ 2 nd DW from Men's Bathroom 338	No Water Supply at Faucet



TABLE 2.1 DRINKING WATER SAMPLING RESULTS UNIVERSITY ELEMENTARY SCHOOL, 1 UNIVERSITY PLACE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.12			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
UES-FB-01	9/8/2021	Field Blank	<0.0005
UES-DW-1F-02	9/8/2021	1 st Floor/ Kindergarten Room # 145	0.0144
UES-DW-1F-03	9/8/2021	1 st Floor/ Kindergarten Room # 154	No Water Supply at Faucet
UES-DW-1F-04	9/8/2021	1 st Floor/ Kindergarten Room # 147	0.0025
UES-DW-1F-05	9/8/2021	1 st Floor/ Kindergarten Room # 152	0.0069
UES-DW-1F-06	9/8/2021	1 st Floor/ Kindergarten Room # 149	0.0090
UES-KC-1F-07	9/8/2021	1 st Floor/ Kitchen Opp. to Entrance	0.0061
UES-IM-1F-08	9/8/2021	1 st Floor/ Kitchen Ice Machine	0.0007
UES-KC-1F-09	9/8/2021	1 st Floor/ Kitchen 3 Compartment Sink Adj. to Ice Machine	0.0018
UES-KC-1F-10	9/8/2021	1 st Floor/ Kitchen 3 Compartment 2 nd Ice Machine	0.0021
<u>UES-KC-1F-11</u>	<u>9/8/2021</u>	<u>1st Floor/ Kitchen Sink Adj. to Slicer</u>	<u>0.0990</u>
<u>UES-KC-1F-12</u>	<u>9/8/2021</u>	<u>1st Floor/ Kitchen 2 Compartment Sink Adj. to Slicer</u>	<u>0.0239</u>
UES-KC-1F-13	9/8/2021	1 st Floor/ Kitchen 2 Compartment Sink 2 nd from Slicer	0.0054
UES-KC-1F-14	9/8/2021	1 st Floor/ Kitchen Sink Adj. to Kitchen Office	0.0043
<u>UES-KC-1F-15</u>	<u>9/8/2021</u>	<u>1st Floor/ Kitchen Sink Adj. to Food Freezer</u>	<u>0.0226</u>
UES-TL-1F-16	9/8/2021	1 st Floor/ Teacher's Lounge	0.0082
<u>UES-DW-2F-17</u>	<u>9/8/2021</u>	<u>2nd Floor/ Classroom # 229</u>	<u>0.0165</u>
UES-DW-2F-18	9/8/2021	2 nd Floor/ Classroom # 226	0.0143
UES-DW-2F-19	9/8/2021	2 nd Floor/ Classroom # 231	0.0065
<u>UES-DW-2F-20</u>	<u>9/8/2021</u>	<u>2nd Floor/ Classroom # 224</u>	<u>0.0444</u>
<u>UES-DW-2F-21</u>	<u>9/8/2021</u>	<u>2nd Floor/ Classroom # 222</u>	<u>0.0174</u>
<u>UES-DW-2F-22</u>	<u>9/8/2021</u>	<u>2nd Floor/ Classroom # 244</u>	<u>0.0241</u>
UES-DW-2F-23	9/8/2021	2 nd Floor/ Classroom # 219	0.0035
UES-DW-2F-24	9/8/2021	2 nd Floor/ Classroom # 247	0.0077
UES-DW-3F-25	9/8/2021	3 rd Floor/ Classroom # 326	0.0073



TABLE 2.1 DRINKING WATER SAMPLING RESULTS UNIVERSITY ELEMENTARY SCHOOL, 1 UNIVERSITY PLACE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.12			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
UES-DW-3F-26	9/8/2021	3 rd Floor/ Classroom # 330	0.0028
UES-DW-3F-27	9/8/2021	3rd Floor/ Classroom # 324	0.256
UES-DW-3F-28	9/8/2021	3 rd Floor/ Classroom # 332	No Water Supply at Faucet
UES-DW-3F-29	9/8/2021	3 rd Floor/ Classroom # 322	0.0035
UES-DW-3F-30	9/8/2021	3 rd Floor/ Classroom # 313	No Water Supply at Faucet
UES-DW-3F-31	9/8/2021	3 rd Floor/ Classroom # 303	0.0088
UES-DW-3F-32	9/8/2021	3 rd Floor/ Classroom # 313	0.0091
UES-DW-3F-33	9/8/2021	3 rd Floor/ Classroom # 304	0.0057
UES-DW-3F-34	9/8/2021	3 rd Floor/ Classroom # 312	No Water Supply at Faucet
UES-DW-3F-35	9/8/2021	3 rd Floor/ Classroom # 305	0.0069
UES-DW-3F-36	9/8/2021	3rd Floor/ Classroom # 306	0.0183
UES-DW-3F-37	9/8/2021	3 rd Floor/ Classroom # 310	0.0071
UES-CT-4F-38	9/8/2021	4 th Floor/ Administrative Section Cafeteria	0.0020
UES-NS-2F-39	9/8/2021	2 nd Floor Nurse's Office - Sink	0.0033
UES-DW-2F-40	9/8/2021	2 nd Floor Nurse's Office - Fountain	0.0077
UES-NS-2F-41	9/8/2021	2 nd Floor Nurse's Office Room # 206 D- Sink	0.0035
UES-DW-2F-42	9/8/2021	2nd Floor Nurse's Office Room # 206 D- Fountain	0.0196
REFERENCES: <ul style="list-style-type: none"> • State of New Jersey Department of Education lead testing regulations, • United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			

3.0 **RECOMMENDATIONS AND CONCLUSIONS**

The results show there were ten (10) exceedances of lead in the fifty-one (51) locations sampled, highlighted in bold and highlighted in Table 2.1.

An investigation into the source of the lead with follow-up testing is being recommended.



4.0 REPORT QUALIFICATIONS

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



THE Saban Engineering Group, Inc.
Environmental and Industrial Hygiene Professionals

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September 20, 2021

Emailed to:
zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
UNION AVENUE MIDDLE SCHOOL, 427 UNION AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.11**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 3rd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 18 and September 8, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Twenty-five (25) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS UNION AVENUE MIDDLE SCHOOL, 427 UNION AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.11			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
UAMS-FB-01	8/18/2021	Field Blank	<0.0005
UAMS-DW-1F-02	8/18/2021	1 st Fl/ Hallway/ Adj. to Room 115 - Adults	0.0007
UAMS-DW-1F-03	8/18/2021	1 st Fl/ Hallway/ Adj. to Room 115 - Kids	0.0019
UAMS-DW-1F-04	8/18/2021	1 st Fl/ Gymnasium/ DW - Adults	No Water Supply at Faucet
UAMS-DW-1F-05	8/18/2021	1 st Fl/ Gymnasium/ DW - Kids	No Water Supply at Faucet
UAMS-DW-1F-06	8/18/2021	1 st Fl/ Hallway/ Adj. to Music Room 1116	No Water Supply at Faucet
UAMS-DW-2F-07	8/18/2021	2 nd Fl/ Hallway/ Adj. to Girl's Toilet 2061	<0.0005
UAMS-DW-2F-08	8/18/2021	2 nd Fl/ Hallway/ Adj. to Men's Bathroom - Kids	0.0015
UAMS-DW-2F-09	8/18/2021	2 nd Fl/ Hallway/ Adj. to Men's Bathroom - Adults	No Water Supply at Faucet
UAMS-DW-2F-10	8/18/2021	2 nd Fl/ Hallway/ Adj. to Elevator	0.0028
UAMS-DW-2F-11	8/18/2021	2 nd Fl/ Hallway/ 2 nd DW from Elevator	0.0007
UAMS-DW-2F-12	8/18/2021	2 nd Fl/ Hallway/ 3 rd DW from Elevator	No Water Supply at Faucet
UAMS-DW-2F-13	8/18/2021	2 nd Fl/ Hallway/ 4 th DW from Elevator	0.0853
UAMS-DW-3F-14	8/18/2021	3 rd Fl/ Hallway/ Adj. to Elevator	0.0028
UAMS-DW-3F-15	8/18/2021	3 rd Fl/ Hallway/ 2 nd DW from Elevator	No Water Supply at Faucet
UAMS-DW-3F-16	8/18/2021	3 rd Fl/ Hallway/ 3 rd DW from Elevator	0.0012
UAMS-DW-3F-17	8/18/2021	3 rd Fl/ Hallway/ 4 th DW from Elevator	No Water Supply at Faucet
UAMS-DW-3F-18	8/18/2021	3 rd Fl/ Hallway/ Adj. to Boy's Toilet 3047	0.0045
UAMS-DW-3F-19	8/18/2021	3 rd Fl/ Hallway/ Adj. to Boy's Toilet 3047 - Kids	No Water Supply at Faucet



TABLE 2.1
DRINKING WATER SAMPLING RESULTS
UNION AVENUE MIDDLE SCHOOL, 427 UNION AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.11

SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS - LEAD
UAMS-DW-3F-20	8/18/2021	3 rd Fl/ Hallway/ Adj. to Girl's Toilet 3054 - Kids	0.0007
UAMS-DW-3F-21	8/18/2021	3 rd Fl/ Hallway/ Adj. to Girl's Toilet 3054 - Adults	No Water Supply at Faucet
UAMS-DW-1F-22	8/18/2021	1 st Fl/ Hallway/ Adj. to Classroom 127	0.0012
UAMS-DW-1F-23	8/18/2021	1 st Fl/ Hallway/ 2 nd DW from Classroom 127	No Water Supply at Faucet
UAMS-DW-1F-24	8/18/2021	1 st Fl/ Hallway/ 3 rd DW from Classroom 127	<0.0005
UAMS-DW-1F-25	8/18/2021	1 st Fl/ Hallway/ 4 th DW from Classroom 127	0.0017
UAMS-DW-1F-26	8/18/2021	1 st Fl/ Hallway/ Adj. to Junior's Closet 1017 - Adults	0.0147
UAMS-DW-1F-27	8/18/2021	1 st Fl/ Hallway/ Adj. to Junior's Closet 1017 - Kids	No Water Supply at Faucet
UAMS-FB-01	9/8/2021	Field Blank	<0.0005
UAMS-TL-1F-02	9/8/2021	1 st Floor/ Teacher's Lounge	0.0006
UAMS-KC-1F-03	9/8/2021	1 st Floor/ Kitchen Sink Adj. to Entrance	0.0068
UAMS-FP-1F-04	9/8/2021	1 st Floor/ Kitchen Food Prep Sink Adj. to Exhaust	0.0077
UAMS-KC-1F-05	9/8/2021	1 st Floor/ Kitchen Sink Adj. to Locker Room	0.0020
<u>UAMS-KC-1F-06</u>	<u>9/8/2021</u>	<u>1st Floor/ Kitchen Sink Adj. to Exit</u>	<u>0.0164</u>
UAMS-FP-1F-07	9/8/2021	1 st Floor/ Kitchen Food Prep Sink Adj. to Storage	0.0065
UAMS-NS-1F-08	9/8/2021	1 st Floor/ Nurse's Office	0.0009
<u>UAMS-NS-1F-09</u>	<u>9/8/2021</u>	<u>1st Floor/ Room Inside Nurse's Office</u>	<u>1.43</u>

REFERENCES:

- State of New Jersey Department of Education lead testing regulations,
- United States Environmental Protection Agency's Lead and Copper Rule (LCR)

3.0 **RECOMMENDATIONS AND CONCLUSIONS**

The results show there were two (2) exceedances of lead in the twenty-five (25) locations sampled, highlighted in **bold and underlined** in Table 2.1.

An investigation into the source of the lead with follow-up testing is being recommended.



4.0 REPORT QUALIFICATIONS

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



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Environmental and Industrial Hygiene Professionals

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September 20, 2021

Emailed to:

zfigueroa@irvington.k12.nj.us

Ms. Zorana Figueroa, CEFM
Supervisor of Buildings & Grounds
Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
UNIVERSITY MIDDLE SCHOOL, 255 MYRTLE AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.13**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the 1st to the 3rd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 16 and September 8, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Twenty (20) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS UNIVERSITY MIDDLE SCHOOL, 255 MYRTLE AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.13			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS - LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
UMS-FB-01	8/16/2021	Field Blank	<0.0005
UMS-DW-1F-02	8/16/2021	1 st Fl/ Hallway/ Lobby 1008	0.0011
UMS-DW-1F-03	8/16/2021	1 st Fl/ Hallway/ Adj. to Room 123	0.0007
UMS-DW-1F-04	8/16/2021	1 st Fl/ Hallway/ Adj. to Gym Entrance	0.0015
UMS-DW-1F-05	8/16/2021	1 st Fl/ Hallway/ Opp. to Classroom 106	0.0007
UMS-DW-1F-06	8/16/2021	1 st Fl/ Hallway/ Adj. to Junior's Closet 1045	0.0018
UMS-DW-2F-07	8/16/2021	2 nd Fl/ Hallway/ Lobby 2008	<0.0005
UMS-DW-2F-08	8/16/2021	2 nd Fl/ Hallway/ Adj. to Room 226	0.0060
UMS-DW-2F-09	8/16/2021	2 nd Fl/ Hallway/ Adj. to Junior's Closet 2028	No Water Supply at Faucet
UMS-DW-2F-10	8/16/2021	2 nd Fl/ Hallway/ Opp. to Classroom 204	<0.0005
UMS-DW-3F-11	8/16/2021	3 rd Fl/ Hallway/ Lobby 3008	0.0309
UMS-DW-3F-12	8/16/2021	3 rd Fl/ Hallway/ Adj. to Room 325	<0.0005
UMS-DW-3F-13	8/16/2021	3 rd Fl/ Hallway/ Opp. to Room 307	<0.0005
UMS-DW-3F-14	8/16/2021	3 rd Fl/ Hallway/ Opp. to Room 304	No Water Supply at Faucet
UMS-FB-01	9/8/2021	Field Blank	<0.0005
UMS-NS-1F-02	9/8/2021	1 st Floor/ Nurse's Office	0.0021
UMS-NS-1F-03	9/8/2021	1 st Floor/ Nurse's Office Room #16C	No Water Supply at Faucet
UMS-TL-1F-04	9/8/2021	1st Floor/ Teacher's Lounge	0.0194



TABLE 2.1 DRINKING WATER SAMPLING RESULTS UNIVERSITY MIDDLE SCHOOL, 255 MYRTLE AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.13			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
UMS-DW-1F-05	9/8/2021	1 st Floor/ Cafeteria - Adults	0.0036
UMS-DW-1F-06	9/8/2021	1 st Floor/ Cafeteria - Kids	0.0056
UMS-KC-1F-07	9/8/2021	1 st Floor/ Kitchen Sink - 3 Compartment	0.0007
UMS-KC-1F-08	9/8/2021	1 st Floor/ Kitchen Sink - Adj. To Exit	0.0041
UMS-FP-1F-09	9/8/2021	1 st Floor/ Kitchen – Food Preparation Sink	0.0022
REFERENCES: <ul style="list-style-type: none"> • State of New Jersey Department of Education lead testing regulations, • United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			

3.0 RECOMMENDATIONS AND CONCLUSIONS

The results show there was one (1) exceedance of lead in the twenty (20) locations sampled, highlighted in **bold and underlined** in Table 2.1.

An investigation into the source of the lead with follow-up testing is being recommended.

4.0 REPORT QUALIFICATIONS

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

MS. ZORANA FIGUEROA
IRVINGTON BOARD OF EDUCATION
SUPERVISOR OF BUILDINGS AND GOUNDS
RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
UNIVERSITY MIDDLE SCHOOL, 255 MYRTLE AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.13
SEPTEMBER 20, 2021



We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director



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September 20, 2021

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Irvington Board of Education
503 Union Ave
Irvington, NJ 07111

**RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
IRVINGTON HIGH SCHOOL, 1253 CLINTON AVENUE, IRVINGTON, NJ
SABAN PROJECT NO. 31553.13.01.1**

Dear Ms. Figueroa,

The Saban Engineering Group, Inc. (Saban), under contract with the Irvington Board of Education (IBOE), is pleased to submit this letter report detailing the results of the lead drinking water sampling and analysis conducted at multiple drinking water sources within the school located at the above referenced site (hereby called the "Subject Area"). This report presents some relevant general project information, followed by the results, conclusions and recommendations.

1.0 SCOPE OF WORK

The scope of work was limited to the drinking water sources from the Basement to the 3rd floor and conducted in accordance with the Quality Assurance Project Plan (QAPP) and Sampling and Analysis Project Plan (SAPP) under the direction and approval of IBOE's Program Manager, Ms. Zorana Figueroa. On August 9, August 10 and September 8, 2021, Saban's Industrial Hygiene Technicians met with a representative from IBOE who provided access to the Subject Area. As part of this project the following tasks were performed:

- An initial walkthrough to identify the drinking water sampling sources,
- Conduct drinking water sampling for lead,
- Preparation of sample data log/chain of custody forms and submit for analysis, and
- Submittal of samples for analysis.

The samples collected were "Initial First Draw Samples" and wearing gloves, collected the first 250ml of water that has remained motionless in the drinking water outlet for a minimum of 8 hours and a maximum of 48 hours in a pre-cleaned 250ml wide-mouth sample container that was previously prepared with a preservative. For each set of samples collected in the building, a field blank using ASTM Type 1 Reagent Water was collected.

2.0 RESULTS

Forty-five (45) lead drinking water samples were collected and submitted for analysis. The lead samples were analyzed by Phoenix Environmental Laboratories, Inc. (Lab ID: CT-003), an independent third-party analytical laboratory certified by New Jersey Department of Environmental Protection for lead in drinking water analysis.



The Irvington Board of Education is considered a Public Water System (Non-Transient Non-Community - NTNC) and compliance with the DOE lead testing regulations as well as the United States Environmental Protection Agency's Lead and Copper Rule (LCR) is required. The Lead and Copper Rule (LCR) requirements was developed to protect public health by minimizing lead and copper levels in drinking water. The LCR established an action level of 0.0155 mg/L (15.5 ppb). There is no safe level of lead, the lead action level is a level that requires action to be taken and is not health based.

Table 2.1 below presents the sample locations and the corresponding results for lead.

TABLE 2.1 DRINKING WATER SAMPLING RESULTS IRVINGTON HIGH SCHOOL, 1253 CLINTON AVENUE, IRVINGTON, NJ SABAN PROJECT NO. 31553.13.01.1			
SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS – LEAD
<i>Maximum Contaminant Levels (MCLs), NJDEP Action Levels</i>			<i>(0.0155 mg/L)</i>
IHS-DW-BSMT-01	8/9/2021	Basement / Hallway / Adjacent to Women's Bathroom	<0.0005
IHS-DW-BSMT-02	8/9/2021	Basement / Hallway / Adjacent to Women's Bathroom – Bottle Filling Unit	<0.0005
<u>IHS-DW-BSMT-03</u>	<u>8/9/2021</u>	<u>Basement / Hallway / Opposite to Classroom #12</u>	<u>0.0365</u>
IHS-DW-1 st fl-04	8/9/2021	1 st Floor / Hallway / Adjacent to Women's Bathroom	<0.0005
IHS-DW-1 st fl-05	8/9/2021	1 st Floor / Hallway / Adjacent to Women's Bathroom – Bottle Filling Unit	<0.0005
IHS-DW-1 st fl-06	8/9/2021	1 st Floor / Hallway / Adjacent to Auditorium	0.0092
IHS-DW-1 st fl-07	8/9/2021	1 st Floor / Hallway / Between Auditorium & Men's Bathroom	<0.0005
IHS-DW-1 st fl-08	8/9/2021	1 st Floor / Hallway / Between Auditorium & Men's Bathroom – Bottle Filling Unit	<0.0005
IHS-DW-1 st fl-09	8/9/2021	1 st Floor / Hallway / Adjacent to Classroom 101	0.0039
<u>IHS-DW-1stfl-10</u>	<u>8/9/2021</u>	<u>1st Floor / Hallway / Adjacent to Corridor Entrance</u>	<u>0.0614</u>
IHS-DW-2 nd fl-11	8/9/2021	2 nd Floor / Hallway / Opposite to Classroom 218	0.0070
IHS-DW-2 nd fl-12	8/9/2021	2 nd Floor / Hallway / Across Classroom 201	0.0029
IHS-DW-2 nd fl-13	8/9/2021	2 nd Floor / Hallway / Opposite to Server Room 207B	0.0023
IHS-DW-2 nd fl-14	8/9/2021	2 nd Floor / Hallway / Opposite to Classroom 209	<0.0005
IHS-DW-2 nd fl-15	8/9/2021	2 nd Floor / Hallway / Opposite to Classroom 209 – Bottle Filling Unit	<0.0005
IHS-DW-3 rd fl-16	8/9/2021	3 rd Floor / Hallway / Opposite to Classroom 319	<0.0005
IHS-DW-3 rd fl-17	8/9/2021	3 rd Floor / Hallway / Opposite to Classroom 319 – Bottle Filling Unit	<0.0005
IHS-DW-3 rd fl-18	8/9/2021	3 rd Floor / Hallway / Across Classroom 301	<0.0005
IHS-DW-3 rd fl-19	8/9/2021	3 rd Floor / Hallway / Opposite to Classroom 307	No Water Supply at Faucet



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SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS - LEAD
IHS-DW-3rdfl-20	8/9/2021	3rd Floor / Hallway / Opposite to Classroom 309	0.0156
IHS-FB-29	8/9/2021	Field Blank	<0.0005
IHS-DW-1 st fl-21	8/10/2021	West Wing / 1 st Floor / Hallway / Adjacent to Room 400	<0.0005
IHS-DW-1 st fl-22	8/10/2021	West Wing / 1 st Floor / Hallway / Adjacent to Room 400 – Bottle Filling Unit	<0.0005
IHS-DW-3 rd fl-23	8/10/2021	West Wing / 3 rd Floor / Hallway / Adjacent to Janitor's Room	<0.0005
IHS-DW-3 rd fl-24	8/10/2021	West Wing / 3 rd Floor / Hallway / Adjacent to Janitor's Room – Bottle Filling Unit	<0.0005
IHS-DW-3 rd fl-25	8/10/2021	West Wing / 3 rd Floor / Hallway / Adjacent to Room 606	0.0080
IHS-DW-2 nd fl-26	8/10/2021	West Wing / 2 nd Floor / Hallway / Adjacent to Janitor's Room	<0.0005
IHS-DW-2 nd fl-27	8/10/2021	West Wing / 2 nd Floor / Hallway / Adjacent to Janitor's Room – Bottle Filling Unit	<0.0005
IHS-DW-2 nd fl-28	8/10/2021	West Wing / 2 nd Floor / Hallway / Adjacent to Room 505	No Water Supply at Faucet
IHS-FB-30	8/10/2021	Field Blank	<0.0005
IHS-FB-01	9/8/2021	Field Blank	<0.0005
IHS-NS-1F-02	9/8/2021	1ST Floor/ Nurse's Office	0.0416
IHS-NS-1F-03	9/8/2021	1 ST Floor/ Office Inside Nurse's Office	0.0009
IHS-KC-3F-04	9/8/2021	3 rd Floor/ Kitchen Sink Adj. to Entrance	0.0045
IHS-KC-3F-05	9/8/2021	3 rd Floor/ Kitchen Sink 2 nd from Entrance	0.0016
IHS-FP-3F-06	9/8/2021	3 rd Floor/ Kitchen food Prep Sink Opp. to Oven	0.0010
IHS-FP-3F-07	9/8/2021	3rd Floor/ Kitchen food Prep Sink Opp. to Oven	0.0414
IHS-FP-3F-08	9/8/2021	3 rd Floor/ Kitchen food Prep Sink Near Cafeteria Entrance	0.0025
IHS-KC-3F-09	9/8/2021	3 rd Floor/ Kitchen Sink Adj. to Burner	0.0058
IHS-KC-3F-10	9/8/2021	3 rd Floor/ Kitchen Sink – 3 Compartment – 1 st Sink from Entrance	0.0006
IHS-KC-3F-11	9/8/2021	3 rd Floor/ Kitchen Sink – 3 Compartment – 2 nd Sink from Entrance	0.0026
IHS-IM-BS-12	9/8/2021	Basement/ Training Room Ice Machine	<0.0005
IHS-SK-BS-13	9/8/2021	Basement/ Training Room/ Sink	0.0015



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SAMPLE I.D.	DATE OF SAMPLING	DESCRIPTION / LOCATION	RESULTS - LEAD
IHS-IM-MS-14	9/8/2021	MacDonald's Shed/ Ice Machine	<0.0005
IHS-SK-MS-15	9/8/2021	MacDonald's Shed/ 3 Compartment Sink Adj. to Entrance	<0.0005
IHS-SK-MS-16	9/8/2021	MacDonald's Shed/ 3 Compartment Sink 2 nd from Entrance	0.0016
IHS-PO-PG-17	9/8/2021	Water Meter Room/ Outlet	0.0015
REFERENCES: <ul style="list-style-type: none"> • State of New Jersey Department of Education lead testing regulations, • United States Environmental Protection Agency's Lead and Copper Rule (LCR) 			

3.0 RECOMMENDATIONS AND CONCLUSIONS

The results show there were five (5) exceedances of lead in the forty-five (45) locations sampled, highlighted in **bold and underlined** in Table 2.1.

An investigation into the source of the lead with follow-up testing is being recommended.

4.0 REPORT QUALIFICATIONS

Please note that this report is an initial water sampling event detailing the results of the water sampling conducted and not a remediation work plan. The sample locations may not be representative of all locations within the building. Saban has performed the tasks set forth above in a thorough and professional manner consistent with industry standards and the conditions and limitations enclosed in the report. Saban cannot guarantee and does not warrant that this limited evaluation has revealed all adverse environmental conditions affecting the site. The sampling standards and protocols utilized and recommended by Saban conform to general industry practices for the assessment of potable water sampling in an indoor environment. The results and opinions set forth by Saban are based on the information in our possession as of the date of this report.

Sampling results, when conducted, are limited in that they represent levels at the time of sampling only and gives a "snap-shot" estimate for a single point in time – how well it represents other locations and times is uncertain since the amounts and types of contaminants, if any, in the environment are always changing. Changes in operating procedures, ventilation, temperature, occupancy, equipment, contaminant sources, products used, and other conditions may cause variations in sampling results.

MS. ZORANA FIGUEROA
IRVINGTON BOARD OF EDUCATION
SUPERVISOR OF BUILDINGS AND GOUNDS
RE: LEAD DRINKING WATER SAMPLING & ANALYSIS
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SEPTEMBER 20, 2021



We appreciate the opportunity to provide the Irvington Board of Education with these industrial hygiene consulting services. If you have any questions or comments, please feel free to contact me at (201) 299-7710 or at saban@sabancorp.com. Thank you.

Sincerely,

Stephen Pharai
Program Director