



June 25, 2018

Mr. Thomas Klotz
St. John the Baptist Catholic School
12319 New Hampshire Avenue
Silver Spring, Maryland 20904

**RE: Lead in Drinking Water Sampling Services
St. John the Baptist Catholic School
12319 New Hampshire Avenue
Silver Spring, Maryland 20904
Apex Project No: ADWPB-024**

Dear Mr. Klotz:

Apex Companies, LLC (Apex) is pleased to present this letter report summarizing the results of its lead in drinking water sampling services performed on May 16, 2018 at St. John the Baptist Catholic School located at 12319 New Hampshire Avenue in Silver Spring, Maryland.

Apex appreciates the opportunity to be of service to the St. John the Baptist Catholic School. If you have any questions or comments, please call me at (301) 417-0200.

Sincerely,
Apex Companies, LLC

A handwritten signature in blue ink, appearing to read 'H. Hare'.

Harrison H. Hare
Project Manager
Maryland Division

1.0 SCOPE OF WORK

At the request of St. John the Baptist Catholic School, Apex Companies, LLC (Apex) conducted drinking water sampling at the St. John the Baptist Catholic School campus located at 12319 New Hampshire Avenue in Silver Spring, Maryland. Apex was granted access and escorted by a representative of the St. John the Baptist Catholic School in order to perform the sampling. Sample services were conducted on May 16, 2018 and consisted of the collection of samples from fifty-seven (57) drinking water sources.

2.0 WATER SAMPLING SUMMARY AND PROTOCOL

Apex's State of Maryland Department of Environment (MDE)-certified Drinking Water Sampler, Mr. J. Esteban Moncada, performed water sampling throughout the above referenced location using protocols based on the Environmental Protection Agency (EPA) publication "*Lead in Drinking Water in Schools and Non-Residential Buildings*", April 1994, as well as the protocol defined in the MDE regulation for Lead in Drinking Water – Public and Nonpublic Schools (COMAR 26.16.07).

Each drinking outlet in an occupied school must be sampled for lead content in water. Drinking water outlets are defined in COMAR 26.16.07 as potable water fixtures that are used or potentially used for drinking or food preparation. Drinking water outlets include the following:

- Water fountains, faucets, or tap used or potentially used for drinking or food preparation; and,
- Ice-making and hot drink machines.

The containers used to collect water samples were prepared by Phase Separation Science, Inc. (PSS) of Baltimore, Maryland, a National Environmental Laboratory Accreditation Program (NELAP)-and MDE-accredited laboratory. Each container is prepared with a nitric acid (HNO₃) solution acting as a preservative and shipped with ice to ensure the appropriate holding time for each sample is not exceeded.

In accordance with the EPA publication "*Lead in Drinking Water in Schools and Non-Residential Buildings*" and COMAR 26.16.07, drinking water sources were isolated from use by School personnel for a minimum of eight (8) hours prior to Apex's arrival on site. All samples were collected prior to school opening as defined between the hours of 5:00 am to 7:30 am. Per COMAR 26.16.07, first draw samples were collected from each source as part of the water sampling.

3.0 LEAD IN DRINKING WATER SAMPLE RESULTS

Sampling was performed by Apex's MDE-certified Drinking Water Sampler, Mr. J. Esteban Moncada. A total of fifty-seven (57) samples were collected from fifty-seven (57) drinking water sources from the four (4) buildings on the campus following an isolation period of at least eight (8) hours and not more than eighteen (18) hours prior to its last use per COMAR 26.16.07. This isolation period was used to ensure that the water collected was representative of the buildings normal water use. Samples were submitted under chain of custody to Phase PSS of Baltimore, Maryland, for analysis by EPA Method 200.8. PSS is a NELAP- and MDE-accredited laboratory for lead in water analysis by EPA Method 200.8. Laboratory data and chain of custody are included in **Appendix A**. Laboratory results for samples collected on May 16, 2018 in the Main Building, the Lyon Center, the Church, and the Kazista Center are summarized in **Tables 1** through **4**, respectively.

Table 1
Lead in Drinking Water Sample Results

St. John the Baptist Catholic School – Main Building
 12319 New Hampshire Avenue
 Silver Spring, Maryland 20904

Collected May 16, 2018

Sample ID	Location	Date/Time Sampled	Lead (µg/L)	Comment
051618-SJB-JEM-W01	Upper Grades Girls' Bathroom Sink #1	05/16/18 0500	5.7	< AL, Not Waiver Eligible
051618-SJB-JEM-W02	Upper Grades Girls' Bathroom Sink #2	05/16/18 0501	1.3	< AL, Waiver Eligible
051618-SJB-JEM-W03	Upper Grades Girls' Bathroom Sink #3	05/16/18 0502	2.2	< AL, Waiver Eligible
051618-SJB-JEM-W04	Upper Grades Girls' Bathroom Sink #4	05/16/18 0503	1.4	< AL, Waiver Eligible
051618-SJB-JEM-W05	Upper Grades Girls' Bathroom Sink #5	05/16/18 0504	2.6	< AL, Waiver Eligible
051618-SJB-JEM-W06	Upper Grades Boys' Bathroom Sink #1	05/16/18 0508	1.0	< AL, Waiver Eligible
051618-SJB-JEM-W07	Upper Grades Boys' Bathroom Sink #2	05/16/18 0509	ND	< AL, Waiver Eligible
051618-SJB-JEM-W08	Upper Grades Boys' Bathroom Sink #3	05/16/18 0510	1.8	< AL, Waiver Eligible
051618-SJB-JEM-W09	Upper Grades Boys' Bathroom Sink #4	05/16/18 0511	6.1	< AL, Not Waiver Eligible
051618-SJB-JEM-W10	Tall Water Fountain Outside 7 th Grade	05/16/18 0514	ND	< AL, Waiver Eligible
051618-SJB-JEM-W11	Short Water Fountain Outside 7 th Grade	05/16/18 0515	ND	< AL, Waiver Eligible
051618-SJB-JEM-W12	Bottle Refill Source Outside 7 th Grade	05/16/18 0517	ND	< AL, Waiver Eligible
051618-SJB-JEM-W13	7 th Grade Classroom Closet Sink	05/16/18 0518	ND	< AL, Waiver Eligible
051618-SJB-JEM-W14	6th Grade Classroom Closet Sink	05/16/18 0519	5.2	< AL, Not Waiver Eligible
051618-SJB-JEM-W15	Teachers' Lounge Sink	05/16/18 0522	ND	< AL, Waiver Eligible
051618-SJB-JEM-W16	Teachers' Lounge Bathroom Sink – Left	05/16/18 0523	ND	< AL, Waiver Eligible
051618-SJB-JEM-W17	Teachers' Lounge Bathroom Sink – Right	05/16/18 0524	ND	< AL, Waiver Eligible
051618-SJB-JEM-W18	School Office – Nurse's Room Sink	05/16/18 0525	ND	< AL, Waiver Eligible
051618-SJB-JEM-W19	Lower Grades Boys' Bathroom Sink #1	05/16/18 0529	1.4	< AL, Waiver Eligible
051618-SJB-JEM-W20	Lower Grades Boys' Bathroom Sink #2	05/16/18 0530	1.0	< AL, Waiver Eligible
051618-SJB-JEM-W21	Lower Grades Girls' Bathroom Sink #1	05/16/18 0540	1.5	< AL, Waiver Eligible
051618-SJB-JEM-W22	Lower Grades Girls' Bathroom Sink #2	05/16/18 0541	1.3	< AL, Waiver Eligible

Sample ID	Location	Date/Time Sampled	Lead (µg/L)	Comment
051618-SJB-JEM-W23	Water Fountain Outside Lower Grades Bathrooms	05/16/18 0543	ND	< AL, Waiver Eligible
051618-SJB-JEM-W24	1 st Grade Bathroom Sink	05/16/18 0545	1.0	< AL, Waiver Eligible
051618-SJB-JEM-W25	Den Bathroom Sink	05/16/18 0546	1.8	< AL, Waiver Eligible
051618-SJB-JEM-W34	Kitchen Sink by Windows	05/16/18 0605	1.5	< AL, Waiver Eligible
051618-SJB-JEM-W35	Kitchen Sink by Refrigeration	05/16/18 0608	4.2	< AL, Waiver Eligible
051618-SJB-JEM-W36	Gym Water Fountain	05/16/18 0610	ND	< AL, Waiver Eligible

µg/L – micrograms per liter, equivalent to parts per billion (ppb)
 ND – Not detected at or above the laboratory practical limit of 1.0 µg/L
 > – greater than; < – less than

EPA/COMAR Action Level (AL) = 20 µg/L (Lead)

- If source is > AL, response actions required. See Recommendations.

Resampling Waiver:

- If source is < AL and < 5.0 µg/L, school may apply for waiver to not require resampling of that source within 3 years. If no waiver is obtained, source must be resampled within 3 years.
- If source is < AL but > 5.0 µg/L, source must be resampled within 3 years.

Table 2
Lead in Drinking Water Sample Results

St. John the Baptist Catholic School – Lyon Center
 12319 New Hampshire Avenue
 Silver Spring, Maryland 20904

Collected May 16, 2018

Sample ID	Location	Date/Time Sampled	Lead (µg/L)	Comment
051618-SJB-JEM-W26	Pre-K Classroom Sink	05/16/18 0547	ND	< AL, Waiver Eligible
051618-SJB-JEM-W27	Pre-K Bathroom Sink	05/16/18 0548	1.3	< AL, Waiver Eligible
051618-SJB-JEM-W28	Kitchen Sink	05/16/18 0550	1.2	< AL, Waiver Eligible
051618-SJB-JEM-W29	Boys' Bathroom Sink #1	05/16/18 0551	ND	< AL, Waiver Eligible
051618-SJB-JEM-W30	Boys' Bathroom Sink #2	05/16/18 0552	ND	< AL, Waiver Eligible
051618-SJB-JEM-W31	Girls' Bathroom Sink #1	05/16/18 0553	ND	< AL, Waiver Eligible
051618-SJB-JEM-W32	Girls' Bathroom Sink #2	05/16/18 0554	ND	< AL, Waiver Eligible
051618-SJB-JEM-W33	Water Fountain Outside Bathrooms	05/16/18 0557	ND	< AL, Waiver Eligible

µg/L – micrograms per liter, equivalent to parts per billion (ppb)

ND – Not detected at or above the laboratory practical limit of 1.0 µg/L

> – greater than; < – less than

EPA/COMAR Action Level (AL) = 20 µg/L (Lead)

- If source is > AL, response actions required. See Recommendations.

Resampling Waiver:

- If source is < AL and < 5.0 µg/L, school may apply for waiver to not require resampling of that source within 3 years. If no waiver is obtained, source must be resampled within 3 years.
- If source is < AL but > 5.0 µg/L, source must be resampled within 3 years.

Table 3
Lead in Drinking Water Sample Results

St. John the Baptist Catholic School – Church
 12319 New Hampshire Avenue
 Silver Spring, Maryland 20904

Collected May 16, 2018

Sample ID	Location	Date/Time Sampled	Lead (µg/L)	Comment
051618-SJB-JEM-W37	Ladies' Bathroom Sink	05/16/18 0612	ND	< AL, Waiver Eligible
051618-SJB-JEM-W38	Men's Bathroom Sink	05/16/18 0613	ND	< AL, Waiver Eligible
051618-SJB-JEM-W39	Water Fountain Outside Bathrooms	05/16/18 0614	ND	< AL, Waiver Eligible
051618-SJB-JEM-W40	Music Room Bathroom Sink	05/16/18 0616	3.5	< AL, Waiver Eligible
051618-SJB-JEM-W41	Sacristy Bathroom Sink	05/16/18 0620	4.1	< AL, Waiver Eligible

µg/L – micrograms per liter, equivalent to parts per billion (ppb)

ND – Not detected at or above the laboratory practical limit of 1.0 µg/L

> – greater than; < – less than

EPA/COMAR Action Level (AL) = 20 µg/L (Lead)

- If source is > AL, response actions required. See Recommendations.

Resampling Waiver:

- If source is < AL and < 5.0 µg/L, school may apply for waiver to not require resampling of that source within 3 years. If no waiver is obtained, source must be resampled within 3 years.
- If source is < AL but > 5.0 µg/L, source must be resampled within 3 years.

Table 4
Lead in Drinking Water Sample Results

St. John the Baptist Catholic School – Kazista Center
 12319 New Hampshire Avenue
 Silver Spring, Maryland 20904

Collected May 16, 2018

Sample ID	Location	Date/Time Sampled	Lead (µg/L)	Comment
051618-SJB-JEM-W42	Upper Level Ladies' Bathroom Sink	05/16/18 0621	ND	< AL, Waiver Eligible
051618-SJB-JEM-W43	Upper Level Men's Bathroom Sink	05/16/18 0623	ND	< AL, Waiver Eligible
051618-SJB-JEM-W44	Upper Level Kitchen Sink	05/16/18 0625	ND	< AL, Waiver Eligible
051618-SJB-JEM-W45	Upper Level Art Room Teacher's Sink	05/16/18 0629	ND	< AL, Waiver Eligible
051618-SJB-JEM-W46	Upper Level Art Room Classroom Sink	05/16/18 0632	ND	< AL, Waiver Eligible
051618-SJB-JEM-W47	Lower Level Men's Bathroom Sink #1	05/16/18 0635	5.3	< AL, Not Waiver Eligible
051618-SJB-JEM-W48	Lower Level Men's Bathroom Sink #2	05/16/18 0636	ND	< AL, Waiver Eligible
051618-SJB-JEM-W49	Lower Level Ladies' Bathroom Sink #1	05/16/18 0637	ND	< AL, Waiver Eligible
051618-SJB-JEM-W50	Lower Level Ladies' Bathroom Sink #2	05/16/18 0640	ND	< AL, Waiver Eligible
051618-SJB-JEM-W51	Lower Level Tall Water Fountain	05/16/18 0650	ND	< AL, Waiver Eligible
051618-SJB-JEM-W52	Lower Level Short Water Fountain	05/16/18 0654	ND	< AL, Waiver Eligible
051618-SJB-JEM-W53	Lower Level Kindergarten Bathroom Sink	05/16/18 0658	ND	< AL, Waiver Eligible
051618-SJB-JEM-W54	Lower Level Kindergarten Classroom Sink	05/16/18 0710	ND	< AL, Waiver Eligible
051618-SJB-JEM-W55	Lower Level Kindergarten Classroom Water Fountain	05/16/18 0714	ND	< AL, Waiver Eligible
051618-SJB-JEM-W56	Lower Level Teachers' Bathroom Sink	05/16/18 0718	ND	< AL, Waiver Eligible
051618-SJB-JEM-W57	Lower Level Library Sink	05/16/18 0725	ND	< AL, Waiver Eligible

µg/L – micrograms per liter, equivalent to parts per billion (ppb)
 ND – Not detected at or above the laboratory practical limit of 1.0 µg/L
 > – greater than; < – less than

EPA/COMAR Action Level (AL) = 20 µg/L (Lead)

- If source is > AL, response actions required. See Recommendations.

Resampling Waiver:

- If source is < AL and < 5.0 µg/L, school may apply for waiver to not require resampling of that source within 3 years. If no waiver is obtained, source must be resampled within 3 years.
- If source is < AL but > 5.0 µg/L, source must be resampled within 3 years.

4.0 CONCLUSION

Apex collected A total of fifty-seven (57) samples were collected from fifty-seven (57) drinking water sources from the four (4) buildings on the campus using a first draw method. The samples were analyzed for concentrations of lead.

The results of the laboratory analysis revealed the following sources had lead concentrations greater than the EPA/COMAR 26.16.07 Action Level (AL) of 20 micrograms per liter ($\mu\text{g/L}$):

- No sources sampled had measured lead concentrations above the AL.

COMAR 26.16.07 defines an “elevated lead level” as a concentration of lead greater than 5.0 $\mu\text{g/L}$. The results of the laboratory analysis revealed the following sources had lead concentrations below the EPA/COMAR 26.16.07 AL of 20 $\mu\text{g/L}$ but above the elevated lead level of 5.0 $\mu\text{g/L}$:

- Main Building – Upper Grades Girls’ Bathroom Sink #1
- Main Building – Upper Grades Boys’ Bathroom Sink #4
- Main Building – 6th Grade Classroom Closet Sink
- Kazista Center – Lower Level Men’s Bathroom Sink #1

5.0 RECOMMENDATIONS

Per COMAR 26.16.07, Apex recommends:

- As no sources were above the AL, no response actions are required; and
- The fifty-seven (57) sources sampled be resampled for lead concentration within three (3) years of this sampling, unless a waiver for resampling is obtained on a per-source basis.
 - The four (4) sources identified above with lead concentrations above 5.0 $\mu\text{g/L}$ are **NOT eligible for a waiver**.
 - The remaining fifty-three (53) sources sampled are eligible for a waiver as they had lead concentrations below 5.0 $\mu\text{g/L}$.

5.1 Waiver Applications

Under COMAR 26.16.07, the local education agency (LEA) can apply for waivers for resampling for sources that meet the following requirements:

- The drinking water outlets in the school building have been tested for the presence of lead in a manner that substantially complies with regulation issued under this section [COMAR 26.16.07]; and
- The test results indicate no elevated levels of lead in any of the drinking water outlets in the school greater than 5.0 $\mu\text{g/L}$. Sources that are found to contain greater than 5.0 $\mu\text{g/L}$ of lead, but less than 20.0 $\mu\text{g/L}$ do not qualify for a waiver and must be resampled within three (3) years.

6.0 STATE REGULATORY SUBMISSIONS

Maryland Department of the Environment (MDE) requires that the following forms be sent in to them via mail or email:

- All lead sample results using the State Laboratory Reporting Form (Appendix A)
- The State Sample Collection Forms (Appendix B)
- A completed Lead Sample Certification Form (Appendix C)
- Drawings demarcating the sample locations (Appendix D)

Apex will initially submit the above documentation to MDE on the behalf of St. John the Baptist Catholic School.

However, MDE may require additional copies or changes to the documents which may require St. John the Baptist Catholic School to re-submit to MDE.

If mailing the required forms in, the address that should be used is:

**Maryland Department of the Environment
Water Supply Program
1800 Washington Blvd, Suite 450
Baltimore, MD 21230**

If emailing the required forms be sure to include "SAMPLE CERTIFICATON" and the school name in the subject line. The email address to be used is:

Reporting.leadsschoolwater@maryland.gov

7.0 REPORT RELIANCE AND USE

This report documents the findings of the services performed by Apex in accordance with our contractual agreement with St. John the Baptist Catholic School. The findings, opinions, and conclusions of this report are for the exclusive use of the St. John the Baptist Catholic School. This report shall not be provided to any other person, entity, or public or governmental agency (unless otherwise mandated by law) without the St. John the Baptist Catholic School's written consent. Reliance on this report for any use or by parties other than specifically stated herein is prohibited without the expressed written consent of both Apex and the St. John the Baptist Catholic School. This document is not intended for any purposes other than those expressly set forth herein or as described in Apex's proposal or for use by parties other than for whom it has been prepared.

APPENDIX A

Lead in Drinking Water Laboratory Data/Chain of Custody
&
State Laboratory Reporting Form

APPENDIX B

State Sample Collection Forms

APPENDIX C

Lead Sample Certification Form

APPENDIX D

Drawing(s) Demarcating Sample Locations