

**REPORT OF DRINKING WATER SAMPLING FOR
LEAD CONTENT AT:**

**HOLY FAMILY CATHOLIC SSCHOOL
2606 WASHINGTON AVENUE
GRANITE CITY, ILLINOIS 62040**

PREPARED FOR:

**MR. JEFF MILLER, DIRECTOR OF FACILITIES
HOLY FAMILY CATHOLIC SCHOOL
2606 WASHINGTON AVENUE
GRANITE CITY, ILLINOIS 62040**

PREPARED BY:

**ENVIRONMENTAL CONSULTANTS, LLC
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(618) 343-3590**

SEPTEMBER 2021

DOCUMENT TO BE RETAINED INDEFINITELY

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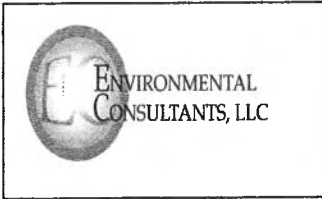
Drinking Water Sampling for Lead
Holy Family Catholic School
2606 Washington Avenue
Granite City, Illinois 62040

EXECUTIVE SUMMARY

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EXECUTIVE SUMMARY



ENVIRONMENTAL CONSULTANTS, LLC

Illinois Office

#6 Meadow Heights Professional Park Drive
Bartonville, Illinois 62234
Phone (618) 343-3590
Fax: (618) 343-3597

September 22, 2021

Mr. Jeff Miller, Director of Facilities
Holy Family Catholic School
1900 St. Clair Avenue
Granite City, Illinois 62040

Subject: Results of Drinking Water Testing for Lead Content

**Site(s): Holy Family Catholic School
1900 St. Clair Avenue
Granite City, Illinois 62040**

Dear Mr. Miller;

On August 2, 2021, Holy Family Catholic School personnel performed lead testing of multiple consumable water sources at Holy Family Catholic School located at 1900 St. Clair Avenue in Granite City, Illinois. Sampling was performed by trained personnel in accordance with USEPA, HUD and State of Illinois Regulations and Guidelines.

All samples were collected on a “first draw” basis. “First draw” is achieved by allowing the water system to rest for at least eight hours prior to sampling in order to collect any existing debris or settlement within the sample. The intent of this sampling is to replicate “worst case scenario” conditions. A second sample from each water source was collected as a “follow up” sample basis. “Follow-up” sampling is achieved by allowing the water system to run for thirty (30) seconds after the first draw sampling. The intent of this sampling is to determine if lead contamination may be in the water lines connected to the water sources and not just at the fixture. Sampling was completed in accordance with the Illinois Senate Bill 550 requirements. The Illinois Department of Public Health (IDPH) and other regulatory agencies recommend that water sources run for at least thirty seconds and as long as two minutes prior to use to avoid settling within the water system.

Drinking water samples were collected from nine (9) locations throughout Holy Family Catholic School during the sampling event. The water samples were collected from drinking fountains and sinks potentially utilized for cooking or drinking activities at the campus. After sample collection, samples were immediately delivered to Teklab, Inc. located in Collinsville, Illinois following strict chain of custody procedures. Teklab is a NELAP accredited and State of Illinois licensed laboratory specializing in drinking water

analysis. Detailed sampling locations and sample results are located in Appendix A of this report.

The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 micrograms per liter ($\mu\text{g/L}$). The analytical sensitivity utilized for the analysis of the water samples submitted identified a reporting limit (RL) of 1.0 microgram of lead per liter ($\mu\text{g/L}$). This reporting value equates to 1.0 parts per billion (ppb) of lead. The USEPA action level for lead in drinking water is 15.0 ppb for PSW. The USEPA document titled "Lead in Drinking Water at Schools and Child Care Facilities" last updated November 9, 2015 identifies an action level for drinking water collected from a plumbing fixture as 20.0 ppb. **All eighteen (18) samples collected from the selected locations at the Holy Family Catholic School reported sample results which were less than the action level.** This information can be found under the National Primary Drinking Water Regulations provided by the EPA, CFR 2010 Title 40. (See Appendix A and B for Sample Results)

Although no additional samples were identified above the action level, EC recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.

The following results require written notification per the Illinois Senate Bill 550 for samples reported above 5 ppb.

Sample ID 2A	EL Hall– Water Fountain 1	13.7 ppm
Sample ID 2B	EL Hall– Water Fountain 1	6.6 ppm
Sample ID 3A	EL Hall– Water Fountain 2	8.2 ppm
Sample ID 3B	EL Hall– Water Fountain 2	17.4 ppm

As a precautionary measure, EC recommends cleaning the two hallway water fountains and retesting prior to use by children or staff.

EC is pleased to provide this information to Holy Family Catholic School and we appreciate the opportunity to provide quality environmental consulting services. Please call us at (618) 343-3590 if you have any questions or to arrange a meeting to discuss.

Sincerely,
Environmental Consultants, LL

Jeffrey M. Faust
Principal

APPENDIX A
SAMPLE LOCATIONS & RESULTS

TABLE 1

Drinking Water Sampling for Lead Content
Holy Family Catholic School
Sampled: August 2, 2021

<u>Sample ID</u>	<u>Location</u>	<u>Water Source</u>	<u>Results (ppb)</u>
01A	Gym Hallway	Fountain	2.1
01B	Gym Hallway	Fountain	3.5
02A	EL Hallway	Fountain	13.7
02B	EL Hallway	Fountain	6.6
03A	EL Hallway	Fountain	8.2
03B	EL Hallway	Fountain	17.4
04A	TL RRS	Sink	1.8
04B	TL RRS	Sink	<1.0
05A	Cafeteria H1	Fountain	2.7
05B	Cafeteria H1	Fountain	2.0
06A	Cafeteria H2	Fountain	2.8
06B	Cafeteria H2	Fountain	2.2
07A	Kitchen	Sink	1.3
07B	Kitchen	Sink	1.4
08A	Kitchen	Sink	3.4
08B	Kitchen	Sink	1.9
09A	Kitchen	Hand Sink	<1.0
09B	Kitchen	Hand Sink	<1.0

APPENDIX B
LABORATORY ANALYSIS



Case Narrative

<http://www.teklabinc.com/>

Client: Holy Family Catholic School

Work Order: 21080083

Client Project: Drinking Water Testing

Report Date: 11-Aug-21

Cooler Receipt Temp: 23.8 °C

Samples were collected in 250mL containers.

Date/Time of last use: 8/1/21 12:00pm

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com



Accreditations

<http://www.teklabinc.com/>

Client: Holy Family Catholic School

Work Order: 21080083

Client Project: Drinking Water Testing

Report Date: 11-Aug-21

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2022	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2022	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2022	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2022	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2021	Collinsville
Arkansas	ADEQ	88-0966		3/14/2022	Collinsville
Illinois	IDPH	17584		5/31/2021	Collinsville
Kentucky	UST	0073		1/31/2022	Collinsville
Missouri	MDNR	00930		5/31/2021	Collinsville
Missouri	MDNR	930		1/31/2022	Collinsville



Laboratory Results

<http://www.teklabinc.com/>

Client: Holy Family Catholic School

Work Order: 21080083

Client Project: Drinking Water Testing

Report Date: 11-Aug-21

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
21080083-001A	001A Gym Hall WF	NELAP		1.0	2.1	µg/L	5	08/10/2021 11:34	08/01/2021 20:06
21080083-002A	001B Gym Hall WF	NELAP		1.0	3.5	µg/L	5	08/10/2021 11:37	08/01/2021 20:07
21080083-003A	002A EL Hall WF1	NELAP		1.0	13.7	µg/L	5	08/10/2021 11:40	08/01/2021 20:09
21080083-004A	002B EL Hall WF1	NELAP		1.0	6.6	µg/L	5	08/10/2021 11:43	08/01/2021 20:11
21080083-005A	003A EL Hall WF2	NELAP		1.0	8.2	µg/L	5	08/10/2021 11:59	08/01/2021 20:13
21080083-006A	003B EL Hall WF2	NELAP		1.0	17.4	µg/L	5	08/10/2021 12:02	08/01/2021 20:15
21080083-007A	004A TL RRS	NELAP		1.0	1.8	µg/L	5	08/10/2021 12:05	08/01/2021 20:18
21080083-008A	004B TL RRS	NELAP		1.0	< 1.0	µg/L	5	08/10/2021 12:08	08/01/2021 20:20
21080083-009A	005A Caf H WF 1	NELAP		1.0	2.7	µg/L	1	08/03/2021 20:55	08/01/2021 20:22
21080083-010A	005B Caf H WF1	NELAP		1.0	2.0	µg/L	1	08/03/2021 21:00	08/01/2021 20:23
21080083-011A	006A Caf H WF2	NELAP		1.0	2.8	µg/L	1	08/03/2021 21:17	08/01/2021 20:26
21080083-012A	006B Caf H WF2	NELAP		1.0	2.2	µg/L	1	08/03/2021 21:23	08/01/2021 20:28
21080083-013A	007A Kit EWS	NELAP		1.0	1.3	µg/L	1	08/03/2021 21:28	08/01/2021 20:30
21080083-014A	007B Kit EWS	NELAP		1.0	1.4	µg/L	1	08/03/2021 21:51	08/01/2021 20:32
21080083-015A	008A Kit EWN	NELAP		1.0	3.4	µg/L	1	08/03/2021 21:56	08/01/2021 20:33
21080083-016A	008B Kit EWN	NELAP		1.0	1.9	µg/L	1	08/03/2021 22:02	08/01/2021 20:35
21080083-017A	009A Kit C Sink	NELAP		1.0	< 1.0	µg/L	1	08/03/2021 22:07	08/01/2021 20:37
21080083-018A	009B Kit C Sink	NELAP		1.0	< 1.0	µg/L	1	08/03/2021 22:13	08/01/2021 20:39

2021 Holy Family Mitigation Plan for Lead/Water Testing Results

As part of our program, Holy Family School developed a plan to test for lead in 9 drinking water fountains and other outlets where students and staff get water for drinking and cooking. We were assisted by Environmental Consultants LLC. The Illinois Department of Public Health lead remediation level in drinking water samples is 5ppb. When a lead sample is detected at or above this level, we take immediate steps to address the source of lead to protect children and staff. The USEPA document titled "Lead in Drinking Water at Schools and Child Care Facilities" last updated November 9, 2015 identifies an action level for drinking water collected from a plumbing fixture as 20.0 ppb. **All eighteen (18) samples collected from the selected locations at the Holy Family Catholic School reported sample results which were less than the USEPA action level.** This information can be found under the National Primary Drinking Water Regulations provided by the EPA, CFR 2010 Title 40. (See Appendix A and B for Sample Results)

As a precautionary measure, Environmental Consultants LLC recommends cleaning the two hallway water fountains and retesting prior to use by children or staff.

Although no additional samples were identified above the action level, Environmental Consultants LLC recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.

The sampling results of our program and our next steps are as follow:

- On August 3, 2021, we tested 9 fixtures throughout our School. This included the hallway drinking water fountains, teachers' lounge sink, and all kitchen faucets.
- Sample results show lead was detected at/above the **Illinois** remediation level in 2 fixtures. No lead was detected in 1 fixture. For the remaining 6 fixtures, lead was detected below 3.5ppm.

The following results require written notification per the Illinois Senate Bill 550 for samples reported above 5 ppb.

Sample ID 2A EL Hall– Water Fountain 1 - 13.7 ppm

Sample ID 2B EL Hall– Water Fountain 1 - 6.6 ppm

Sample ID 3A EL Hall– Water Fountain 2 - 8.2 ppm

Sample ID 3B EL Hall– Water Fountain 2 - 17.4 ppm

- In response to the sampling results, we plan to replace the 2 fixtures that had lead levels at/above the program remediation level of 5 ppm.

These fixtures were removed from service in December of 2019 due to COVID-19, and will remain as such until they are cleaned and re-tested or replaced.

- For the 7 fixtures that lead was detected below the remediation level, we are implementing routine flushing to further minimize potential exposure.

Kitchen staff must flush the Sinks 30 seconds every morning prior to food preparation.

Custodian/Janitor must flush all water fountains, and the teachers lounge sink for 30 seconds each day prior to the remainder of the staff and students' arrival.



September 23, 2021

Holy Family Catholic School
1900 St. Clair Avenue
Granite City, IL 62040

Dear Parents, Faculty, and Staff:

Holy Family Catholic School would like to provide information on our efforts to reduce potential exposure to lead from school drinking water by taking steps that included testing for lead in drinking water in our school and sharing the sampling results. Our school has a state required program to reduce potential exposure to lead in drinking water.

Lead is a toxic metal. When children and others are exposed to lead it can have adverse health effects. "Exposure" to lead in drinking water means that children or staff consume water that contains lead through drinking or food preparation. There is no safe level of lead exposure which is why we are working to identify potential sources of Appendix exposure and are communicating actions that can be taken to both reduce lead and protect children and staff.

As part of our program, Holy Family School developed a plan to test for lead in 9 sources which included the drinking water fountains and other outlets where students and staff use water for drinking and cooking. We were assisted by Environmental Consultants LLC. The Illinois Department of Public Health requires lead remediation if the level of lead in drinking water samples is 5ppb or above. The USEPA document titled "Lead in Drinking Water at Schools and Child Care Facilities", last updated November 9, 2015, identifies an action level for drinking water collected from a plumbing fixture as 20.0 ppb. **All eighteen (18) samples collected from the selected locations at Holy Family Catholic School reported sample results which were less than the required USEPA action level.** This information can be found under the National Primary Drinking Water Regulations provided by the EPA, CFR 2010 Title 40. (See A and B for Sample Results)

As a precautionary measure, Environmental Consultants LLC recommends cleaning the two hallway water fountains and retesting prior to use by children or staff.

Although no additional samples were identified above the action level, Environmental Consultants LLC recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.



The sampling results of our program and our next steps are as follows:

- On August 3, 2021, we tested 9 fixtures taking 18 samples throughout our School. This included the hallway drinking water fountains, teachers' lounge sink, and all kitchen faucets.
- Sample results show lead was detected at/above the **Illinois** remediation level in 2 fixtures. No lead was detected in 1 fixture. For the remaining 6 fixtures, lead was detected below 3.5ppm. The following results require written notification per the Illinois Senate Bill 550 for samples reported above 5 ppb.

Sample ID 2A EL Hall– Water Fountain 1 - 13.7 ppm

Sample ID 2B EL Hall– Water Fountain 1 - 6.6 ppm

Sample ID 3A EL Hall– Water Fountain 2 - 8.2 ppm

Sample ID 3B EL Hall– Water Fountain 2 - 17.4 ppm

- In response to the sampling results, we plan to replace the 2 fixtures that had lead levels at/above the program remediation level of 5 ppm. **These fixtures were removed from service in December of 2019 due to COVID-19, and will remain as such until they are cleaned and retested or get replaced.**
- For the 7 fixtures that lead was detected below the remediation level, we are implementing routine flushing to further minimize potential exposure.

You can view the detailed sample results and remediation plans at <https://holyfamilyhawks.net/>. Protecting the health and wellbeing of your child(ren) is our top priority and we are committed to keeping you informed every step of the way as we implement our program at Holy Family School.

Sincerely,

Holy Family School Administration

Considerations for Parents: The only way to determine an individual child's lead level is to have the child's blood tested. Please contact your health provider to learn more about blood lead testing. The degree of risk depends on the child's total exposure to lead from all sources in the environment – air, soil, dust, food, paint, consumer products, and water. If you have any immediate concerns or would like to learn more about our program to reduce lead in drinking water, please contact Holy Family School at 618-877-5500.

For Illinois requirements or lead testing guideline <https://www.dph.illinois.gov/illinoislead>. For U.S. Environmental Protection Agency (EPA) general information on lead: www.epa.gov/lead. For U.S. EPA information and tools about our 3Ts program on Reducing Lead in Drinking Water in Schools and Child Care Facilities – *Training, Testing and Taking Action*: www.epa.gov/safewater/3ts.

