

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

**SUPPORT SERVICES  
101 SUPPORT SERVICE DR.  
WENTZVILLE, MISSOURI 63385**



*PREPARED FOR:*

**MRS. ANGELA HAWKINS  
DIRECTOR OF FACILITIES/SAFETY COORDINATOR  
WENTZVILLE R-IV SCHOOL DISTRICT  
101 SUPPORT SERVICE DRIVE  
WENTZVILLE, MISSOURI 63385**

*PREPARED BY:*

**J.S. HELD, LLC  
#6 MEADOW HEIGHTS PROFESSIONAL PARK  
COLLINSVILLE, ILLINOIS 62234  
(618) 343-3590**

**DECEMBER 2023**

**DOCUMENT TO BE RETAINED INDEFINITELY**

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# **EXECUTIVE SUMMARY**

December 28, 2023

Mrs. Angela Hawkins  
Director of Maintenance  
Wentzville R-IV School District  
101 Support Service Drive  
O'Fallon, Missouri 63366

**Subject: Results of Drinking Water Testing for Lead Content**

**Site(s): Support Services  
101 Support Service Dr  
Wentzville, MO 63385**

Dear Mrs. Hawkins,

On the morning of December 15<sup>th</sup>, 2023, J.S. Held, LLC performed lead testing of multiple water sources at the Support Services located at 101 Support Service Dr in Wentzville, Missouri. The sampling was performed by trained and licensed personnel in accordance with USEPA, HUD and State of Missouri Regulations and Guidelines. Work was performed in accordance with the newly amended Missouri Senate Bill 681.

All inspectors involved with sampling activities had EPA approved training in lead. Certifications for our firm and the inspector collecting the samples are included as Appendix C to this document.

All samples were collected on a “first draw” and “second 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. J.S. Held proposes to collect a second sample from each source as a “follow-up sample” per the Missouri Senate Bill 681 requirements. As such, J.S. Held inspector met at the building at 6:10 a.m. to collect water samples before the systems were used by staff or students. The State of Missouri 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 four (4) different locations throughout Support Services 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 iced down and 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. **Seven (7) samples collected from the selected locations at the Support Services 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) The Missouri Senate Bill 1075 require potable plumbing fixtures to be less than 5.0 ppb, the levels area above 5 ppb, then action shall be necessary to filter the water from the fixture or clean/repair/replace the fixture and retest until the levels are reported below 5 ppb.

**All samples collected from the selected locations at the Support Services were less than the 5 ppb requirements under Senate Bill 681. The district will be required to provide notification to parents and staff within 7 days of receiving these sample results and results shall be posted on the district website within 2 weeks. Any samples reported over 5 ppb should be re-sampled on an annual basis at a minimum.**

**J.S. Held recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.**

J.S. Held is pleased to provide this information to Wentzville R-IV School District 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,  
J.S. Held, LLC

*Jim Yasitis*

Jim Yasitis  
Vice President of Environmental Health & Safety

# **APPENDIX A**

## **SAMPLE LOCATIONS & RESULTS**

**TABLE 1**

**Drinking Water Sampling for Lead Content  
Wentzville R-IV School District  
Support Services  
Sampled: December 15, 2023**

<b>Sample ID</b>	<b>Location</b>	<b>Water Source</b>	<b>Results (ppb)</b>
01A	Break Room	Sink	<1.0
01B	Break Room	Sink	1.0
02	Break Room	Ice Machine	<1.0
03A	Near Women's Restroom (Left)	Fountain	2.2
03B	Near Women's Restroom (Left)	Fountain	2.1
04A	Near Women's Restroom (Right)	Fountain	2.0
04B	Near Women's Restroom (Right)	Fountain	1.6

#####

Water sources in excess of 20 ppb. Recommendation is to remove from service immediately. Do not return to service until re-testing confirms mitigation was effective.

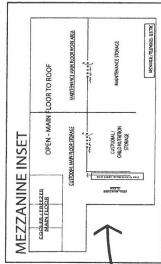
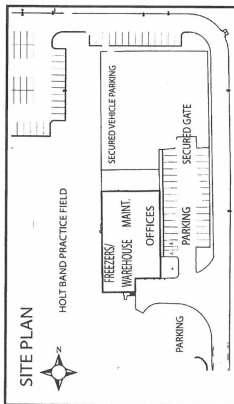
#####

Water source is 5-19.9 ppb, but still displays evidence of lead. Recommendation is to re-test source on an annual basis at a minimum.

**Sample Legend**

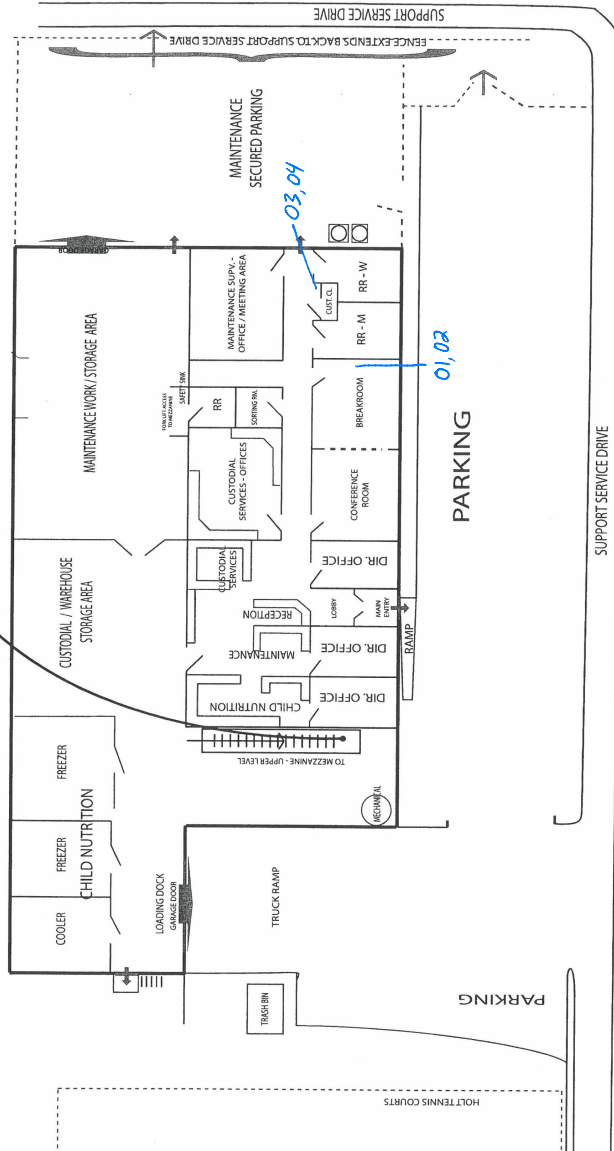
“A” = First Draw

“B” = Second Draw



HOLT FACULTY  
PARKING

HOLT BAND FIELD





# **APPENDIX B**

## **LABORATORY ANALYSIS**

December 27, 2023

Jim Yasitis  
J.S. Held  
#6 Meadow Heights Professional Park  
Collinsville, IL 62234  
TEL: (618) 343-3590  
FAX: (618) 343-3597



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

**RE:** Wentzville SD Water Sampling 231000104

**WorkOrder:** 23121273

Dear Jim Yasitis:

TEKLAB, INC received 7 samples on 12/15/2023 11:06:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Marvin L. Darling  
Project Manager  
(618)344-1004 ex 41  
[mdarling@teklabinc.com](mailto:mdarling@teklabinc.com)

**Client:** J.S. Held

**Work Order:** 23121273

**Client Project:** Wentzville SD Water Sampling 231000104

**Report Date:** 27-Dec-23

**This reporting package includes the following:**

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**Client:** J.S. Held**Work Order:** 23121273**Client Project:** Wentzville SD Water Sampling 231000104**Report Date:** 27-Dec-23**Abbr Definition**

\* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count ( > 200 CFU )

**Client:** J.S. Held

**Work Order:** 23121273

**Client Project:** Wentzville SD Water Sampling 231000104

**Report Date:** 27-Dec-23

### Qualifiers

- |   |  |
|---|--|
| # - Unknown hydrocarbon                               | B - Analyte detected in associated Method Blank              |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range                           |
| H - Holding times exceeded                            | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits        | M - Manual Integration used to determine area response       |
| ND - Not Detected at the Reporting Limit              | R - RPD outside accepted recovery limits                     |
| S - Spike Recovery outside recovery limits            | T - TIC(Tentatively identified compound)                     |
| X - Value exceeds Maximum Contaminant Level           |  |



## Case Narrative

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

**Client:** J.S. Held

**Work Order:** 23121273

**Client Project:** Wentzville SD Water Sampling 231000104

**Report Date:** 27-Dec-23

**Cooler Receipt Temp:** NA °C

### 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

**Client:** J.S. Held**Work Order:** 23121273**Client Project:** Wentzville SD Water Sampling 231000104**Report Date:** 27-Dec-23

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2024	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



## Laboratory Results

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

Client: J.S. Held

Work Order: 23121273

Client Project: Wentzville SD Water Sampling 231000104

Report Date: 27-Dec-23

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									
23121273-001A	01A	NELAP		1.0	< 1.0	µg/L	1	12/20/2023 14:47	12/15/2023 6:00
23121273-002A	01B	NELAP		1.0	1.0	µg/L	1	12/20/2023 15:50	12/15/2023 6:00
23121273-003A	02	NELAP		1.0	< 1.0	µg/L	1	12/19/2023 16:03	12/15/2023 6:00
23121273-004A	03A	NELAP		1.0	2.2	µg/L	1	12/19/2023 16:07	12/15/2023 6:00
23121273-005A	03B	NELAP		1.0	2.1	µg/L	1	12/19/2023 16:11	12/15/2023 6:00
23121273-006A	04A	NELAP		1.0	2.0	µg/L	1	12/19/2023 16:15	12/15/2023 6:00
23121273-007A	04B	NELAP		1.0	1.6	µg/L	1	12/19/2023 16:19	12/15/2023 6:00





## Receiving Check List

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

Client: J.S. Held

Work Order: 23121273

Client Project: Wentzville SD Water Sampling 231000104

Report Date: 27-Dec-23

Carrier: Brad Frisch

Received By: HAW

Completed by:

On:

15-Dec-23

Mary E Kemp

Reviewed by:

On:

15-Dec-23

Ellie Hopkins

Pages to follow:

Chain of custody

1

Extra pages included

1

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C

NA

Type of thermal preservation?

None ☒

Ice ☐

Blue Ice ☐

Dry Ice

☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☒

No ☐

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory.

pg. 1 of 1 Work Order # 2312173

pg. 1 of 1 Work Order # 2312173

Samples on: ☐ Ice ☐ Blue Ice ☒ No Ice      NA °C  
Preserved in: ☐ Lab ☐ Field      FOR LAB USE ONLY  
Lab Notes:  
  
Comments: *Support Services*  
  
*Please report in ppb.*

- Are these samples known to be involved in litigation? If yes, a surcharge will apply. ☐ Yes ☒ No
- Are these samples known to be hazardous? ☐ Yes ☒ No
- Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. ☒ Yes ☐ No

[illegible]

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

WHITE - LAURENCE YELMAN CARRIE

## **APPENDIX C**

### **CREDENTIALS**



**STATE OF MISSOURI**  
**DEPARTMENT OF HEALTH AND SENIOR SERVICES**

**LEAD OCCUPATION LICENSE REGISTRATION**

Issued to:

**Bradley M. Frisch**

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

**Lead Risk Assessor**  
Category of License

Issuance Date: **3/1/2022**  
Expiration Date: **3/1/2024**  
License Number: **160229-300004900**



*Paula F. Nickelson*

Paula F. Nickelson  
Acting Director  
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102



COLLEGE FOR  
**PUBLIC HEALTH & SOCIAL JUSTICE**  
SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

**Brad Frisch**

2668 Kettering Court, Saint Charles, MO 63303

has attended 8 contact hours of training and successfully passed an examination

**Lead Risk Assessor Refresher**

St. Louis, MO

Certificate # CEET 325 - 3/7/2022 - 117395

Examination Date: 3/7/2022

CEUs: 0.8

Certificate expiration is 3 years from examination date for Illinois Dept. of Public Health

Center for Environmental Education and Training, 3545 Lafayette, St. Louis, MO 63104

(314) 977-8256 sls.edu/x39753.xml

This training course has been accredited by the Illinois Department of Public Health, and by the Missouri Department of Health & Senior Services.

*Christopher C. King*  
Christopher C. King PhD  
Director, Center for Environmental  
Education and Training

**State of Missouri**  
**Department of Natural Resources**

**Certificate of Approval**  
**for Chemical Laboratory Service**

This is to certify that

**Teklab, Incorporated**

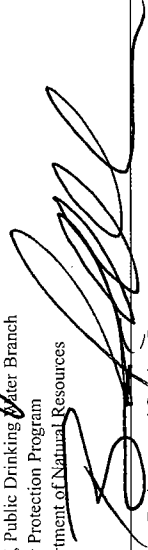
is hereby approved to perform the analysis of drinking water as specified on the  
Certified Parameter List, which must accompany this certificate to be valid.


Certification No. 930

Date Issued May 26, 2016

Expiration Date January 31, 2017

  
\_\_\_\_\_  
Chief, Public Drinking Water Branch  
Water Protection Program  
Department of Natural Resources

  
\_\_\_\_\_  
Director, Environmental Services Program  
Department of Natural Resources

  
\_\_\_\_\_  
Evaluation Officer, Environmental Services Program  
Department of Natural Resources

**MISSOURI DEPARTMENT OF NATURAL RESOURCES**

**DRINKING WATER LABORATORY**

**CERTIFIED PARAMETER LIST**

This is to certify that

# Teklab, Incorporated

located at

5445 Horseshoe Lake Road, Collinsville, Illinois

has been approved to perform the indicated procedures on drinking water under the Missouri Public Drinking Water Regulations (10 CSR 60-5.020). Specific method numbers or references are included in parenthesis when appropriate.

## **METALS**

***EPA 200.7*** – Aluminum, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Magnesium, Manganese, Nickel, Silver, Sodium, Zinc;

***EPA 200.8*** – Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Manganese, Molybdenum, Nickel, Selenium, Silver, Thallium, Zinc;

***EPA 245.1*** – Mercury; ***SM 3112B*** – Mercury;

## **INORGANIC NONMETALLIC CONSTITUENTS**

***EPA 353.2*** – Nitrate, Nitrite; ***SM 4500Cl-G*** – Residual Free Chlorine; ***SM 4500CN-E*** – Cyanide;

***SM 4500F-C*** – Fluoride; ***SM 4500H+-B*** – pH; ***SM 4500NO2-B*** – Nitrite;

***SM 4500P-E*** – Orthophosphate as P; ***SM 4500Si-E*** – Silica;

## **PHYSICAL & AGGREGATE PROPERTIES**

***SM 2120B*** – Color; ***SM 2130B*** – Turbidity; ***SM 2320B*** – Alkalinity; ***SM 2340B*** – Hardness;

***SM 2340C*** – Hardness; ***SM 2510B*** – Conductivity; ***SM 2550B*** – Temperature;

***EPA 180.1*** – Turbidity;

## **AGGREGATE ORGANIC CONSTITUENTS**

***SM 5310C*** – Total Organic Carbon; ***SM 5310C*** – Dissolved Organic Carbon

**Expiration Date: January 31, 2017**

**Missouri Certificate No.: 930**

**Original Certifying State: Illinois**