# REPORT OF DRINKING WATER SAMPLING FOR LEAD CONTENT AT:

## LIBERTY HIGH SCHOOL 2275 SOMMERS RD LAKE SAINT LOUIS, MISSOURI 63367



PREPARED FOR:

MRS. ANGELA HAWKINS
DIRECTOR OF MAINTENANCE
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

**OCTOBER 2023** 

DOCUMENT TO BE RETAINED INDEFINITELY

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Wentzville R-IV School District
Liberty High School
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Lake Saint Louis, Missouri 63367

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# **EXECUTIVE SUMMARY**



6 Meadow Heights Professional Park Drive Collinsville, IL 62234 | US

jsheld.com

November 3<sup>rd</sup>, 2023

Mrs. Angela Hawkins Director of Maintenance Wentzville R-IV School District 101 Support Service Drive Wentzville, Missouri 63385

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

Site(s): Liberty HS

2275 Sommers Rd

Lake Saint Louis, Missouri 63367

Dear Mrs. Hawkins

On the morning of October 24<sup>th</sup>, 2023, J.S. Held (JSH) performed lead testing of multiple water sources at the Liberty High School located at 2275 Sommers Rd, Lake Saint Louis, 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. JSH proposes to collect a second sample from each source as a "follow-up sample" per the Missouri Senate Bill 681 requirements. As such, JSH inspectors met at the school at 3:00 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 Seventy-Two (72) different locations throughout Liberty High 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 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 (µg/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 (µg/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. One Hundred Thirty-seven (137) samples collected from the selected locations at the Liberty High 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) 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. . One (1) sample collected from the selected locations at the Liberty High School reported a sample result which is above 5 ppb (See Appendix A and B for Sample Results

The following results are greater than the 5 ppb requirements under Senate Bill 681.

Sample ID 04A Kitchen- 503A Dish Room 3 Bay (Dish Sprayer) – Sink (6.3 ppb)

At this time all water sources testing at 5 ppb or above should be removed from service until filtration can be added or these sources are repaired/replaced and retested reporting under 5 ppb. These sources are subject to additional maintenance activities and response actions prior to use. Before being put back in service. In addition, all sources will be subject to an ongoing maintenance program and re-testing at appropriate intervals. 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.

Page 3 Mrs. Hawkins November 3<sup>rd</sup>, 2023

JSH 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 Liberty High School

Sampled: October 24, 2023

Samp	le ID Location	Water Source	Results (ppb)
01A	Kitchen- 503A Dish Room Dish Sprayer	Sink	1.3
01B	Kitchen- 503A Dish Room Dish Sprayer	Sink	<1.0
02A	Kitchen- 503A Dish Room 3 Bay (Left)	Sink	1.5
02B	Kitchen- 503A Dish Room 3 Bay (Left)	Sink	<1.0
03A	Kitchen- 503A Dish Room 3 Bay (Right)	Sink	4.0
03B	Kitchen- 503A Dish Room 3 Bay (Right)	Sink	<1.0
04A	Kitchen- 503A Dish Room 3 Bay (Dish Sprayer)	Sink	6.3
04B	Kitchen- 503A Dish Room 3 Bay (Dish Sprayer)	Sink	<1.0
05A	Kitchen- 2 Bay	Sink	<1.0
05B	Kitchen- 2 Bay	Sink	<1.0
06A	Kitchen- Back Wall- Pot Filler	Sink	<1.0
06B	Kitchen- Back Wall- Pot Filler	Sink	<1.0
07A	Kitchen- Back Wall- Single Bay	Sink	<1.0
07B	Kitchen- Back Wall- Single Bay	Sink	<1.0
08A	Kitchen- Near 503D- Cooking Area- Single Bay	Sink	<1.0
08B	Kitchen- Near 503D- Cooking Area- Single Bay	Sink	<1.0
09A	Kitchen- Near Ice Machine- Single Bay	Sink	<1.0
09B	Kitchen- Near Ice Machine- Single Bay	Sink	<1.0
10	Kitchen- Ice Machine	Ice Machine	<1.0
11 <b>A</b>	Near 500D (Left Center)	Fountain	<1.0
11B	Near 500D (Left Center)	Fountain	<1.0
12A	Near 500D (Right Center)	Fountain	<1.0
12B	Near 500D (Right Center)	Fountain	<1.0
13A	Near 500D (Right)	Fountain	<1.0
13B	Near 500D (Right)	Fountain	<1.0
14A	Cafeteria near Restrooms (Left Center)	Fountain	<1.0
14B	Cafeteria near Restrooms (Left Center)	Fountain	<1.0
15A	Cafeteria near Restrooms (Right Center)	Fountain	<1.0
15B	Cafeteria near Restrooms (Right Center)	Fountain	<1.0
16A	Cafeteria near Restrooms (Right)	Fountain	<1.0
16B	Cafeteria near Restrooms (Right)	Fountain	<1.0
17A	Near 609- Set 1 (Right)	Fountain	<1.0
17B	Near 609- Set 1 (Right)	Fountain	<1.0

Samp	ole ID Location	Water Source	Results (ppb)
18A	Near 609- Set 2 (Left)	Fountain	<1.0
18B	Near 609- Set 2 (Left)	Fountain	<1.0
19A	Near 609- Set 3 (Left)	Fountain	<1.0
19B	Near 609- Set 3 (Left)	Fountain	<1.0
20A	Near 609- Set 3 (Right)	Fountain	<1.0
20B	Near 609- Set 3 (Right)	Fountain	<1.0
21A	Hall Outside Auxiliary Gym (Left)	Fountain	<1.0
21B	Hall Outside Auxiliary Gym (Left)	Fountain	<1.0
22A	Hall Outside Auxiliary Gym (Right)	Fountain	<1.0
22B	Hall Outside Auxiliary Gym (Right)	Fountain	<1.0
23A	Room 602- Concession Area	Sink	<1.0
23B	Room 602- Concession Area	Sink	<1.0
24	Room 602– Concession Area	Ice Machine	<1.0
25A	Room 300- Nurse's Office	Sink	<1.0
25B	Room 300- Nurse's Office	Sink	<1.0
26	Room 300– Nurse's Office	Ice Machine	<1.0
27A	Room 608- Teacher's Lounge	Sink	<1.0
27B	Room 608- Teacher's Lounge	Sink	<1.0
28A	Near Room 445 (Left)	Fountain	<1.0
28B	Near Room 445 (Left)	Fountain	<1.0
29A	Near Room 445 (Right Center)	Fountain	<1.0
29B	Near Room 445 (Right Center)	Fountain	<1.0
30A	Near Room 445 (Right)	Fountain	<1.0
30B	Near Room 445 (Right)	Fountain	<1.0
31A	Near Room 412 (Left Center)	Fountain	<1.0
31B	Near Room 412 (Left Center)	Fountain	<1.0
32A	Near Room 412 (Right Center)	Fountain	<1.0
32B	Near Room 412 (Right Center)	Fountain	<1.0
33A	Near Room 412 (Right)	Fountain	<1.0
33B	Near Room 412 (Right)	Fountain	<1.0
34A	Room 423 Workroom	Sink	<1.0
34B	Room 423 Workroom	Sink	<1.0
35A	Near Room 220 (Left Center)	Fountain	<1.0
35B	Near Room 220 (Left Center)	Fountain	<1.0
36A	Near Room 220 (Right Center)	Fountain	<1.0
36B	Near Room 220 (Right Center)	Fountain	1.2
37A	Near Room 220 (Right)	Fountain	<1.0
37B	Near Room 220 (Right)	Fountain	<1.0
38A	Room 221 Workroom	Sink	<1.0
38B	Room 221 Workroom	Sink	<1.0
39A	Room 129 Workroom	Sink	1.1
39B	Room 129 Workroom	Sink	<1.0
40A	Near Room 132 (Left Center)	Fountain	<1.0
40B	Near Room 132 (Left Center)	Fountain	<1.0
41A	Near Room 132 (Right Center)	Fountain	<1.0

Samp	ole ID Location	Water Source	Results (ppb
41B	Near Room 132 (Right Center)	Fountain	<1.0
42A	Near Room 132 (Right)	Fountain	<1.0
42B	Near Room 132 (Right)	Fountain	<1.0
43A	Near Room 318 (Left Center)	Fountain	<1.0
43B	Near Room 318 (Left Center)	Fountain	<1.0
44A	Near Room 318 (Right Center)	Fountain	<1.0
44B	Near Room 318 (Right Center)	Fountain	1.1
45A	Near Room 318 (Right)	Fountain	<1.0
45B	Near Room 318 (Right)	Fountain	<1.0
46A	Room 313- Back Wall- 3 Bay	Sink	1.5
46B	Room 313- Back Wall- 3 Bay	Sink	<1.0
47A	Room 313- Right Wall- 3 Bay	Sink	2.6
47B	Room 313- Right Wall- 3 Bay	Sink	<1.0
48	Room 313- Ice machine	Ice Machine	<1.0
49A	Room 321 Workroom	Sink	<1.0
49B	Room 321 Workroom	Sink	<1.0
50A	Room 323A Child Development (Left)	Sink	<1.0
50B	Room 323A Child Development (Left)	Sink	<1.0
51A	Room 323A Child Development (Right)	Sink	<1.0
51B	Room 323A Child Development (Right)	Sink	<1.0
52A	Near Room 328 (Left)	Fountain	<1.0
52A	Near Room 328 (Left)	Fountain	<1.0
53A	Near Room 328 (Right Center)	Fountain	<1.0
53A	Near Room 328 (Right Center)	Fountain	<1.0
54A	Near Room 328 (Right)	Fountain	<1.0
54B	Near Room 328 (Right)	Fountain	<1.0
55A	Concession (Near Football)	Sink	1.1
55B	Concession (Near Football)	Sink	<1.0
55 <b>Б</b>	Concession (Near Football)	Ice Machine	<1.0
57A	Outside Concession (Near Football)	Fountain	<1.0
	,	Fountain	
57B 58A	Outside Concession (Near Football) Kitchen- Cooking Area- Pot Filler	Sink	<1.0 <1.0
	<u> </u>		
58B	Kitchen- Cooking Area- Pot Filler	Sink	<1.0
59A	Near 500D (Left)	Fountain	<1.0
59B	Near 500D (Left)	Fountain	<1.0
60A	Cafeteria near Restrooms (Left)	Fountain	<1.0
60B	Cafeteria near Restrooms (Left)	Fountain	<1.0
61A	Near 609- Set 1 (Left)	Fountain	<1.0
61B	Near 609- Set 1 (Left)	Fountain	<1.0
62A	Near 609- Set 2 (Right)	Fountain	<1.0
62B	Near 609- Set 2 (Right)	Fountain	<1.0
63A	Near Room 445 (Left Center)	Fountain	<1.0
63B	Near Room 445 (Left Center)	Fountain	<1.0
64A	Near Room 412 (Left)	Fountain	<1.0
64B	Near Room 412 (Left)	Fountain	<1.0

Samp	le ID Location	Water Source	Results (ppb)
65	Room 423 Workroom	Ice Machine	<1.0
66A	Near Room 220 (Left)	Fountain	<1.0
66B	Near Room 220 (Left)	Fountain	<1.0
67A	Near Room 132 (Left)	Fountain	<1.0
67B	Near Room 132 (Left)	Fountain	<1.0
68A	Near Room 328 (Left Center)	Fountain	<1.0
68B	Near Room 328 (Left Center)	Fountain	<1.0
69	Room 321 Workroom	Ice Machine	1.1
70A	Near Room 318 (Left)	Fountain	<1.0
70B	Near Room 318 (Left)	Fountain	<1.0
71A	Near Men's Makeup (Left)	Fountain	<1.0
71B	Near Men's Makeup (Left)	Fountain	<1.0
72A	Near Men's Makeup (Right)	Fountain	<1.0
72B	Near Men's Makeup (Right)	Fountain	<1.0



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.

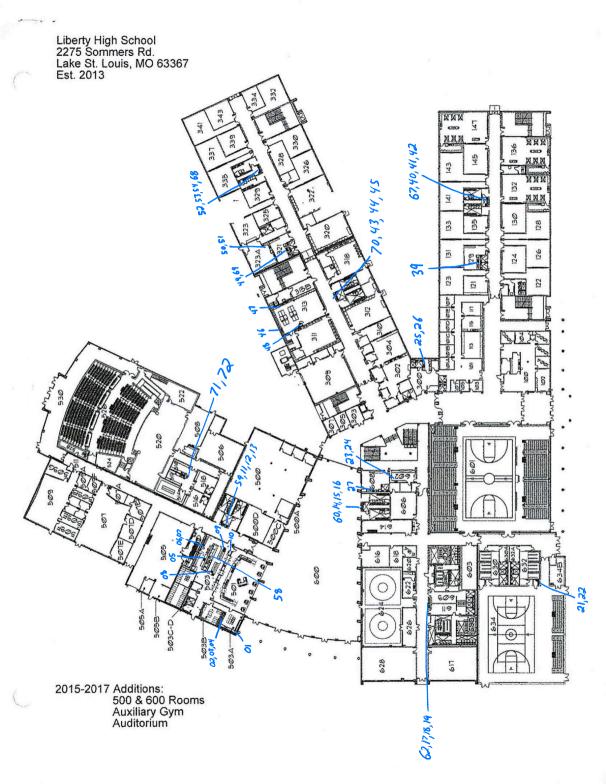


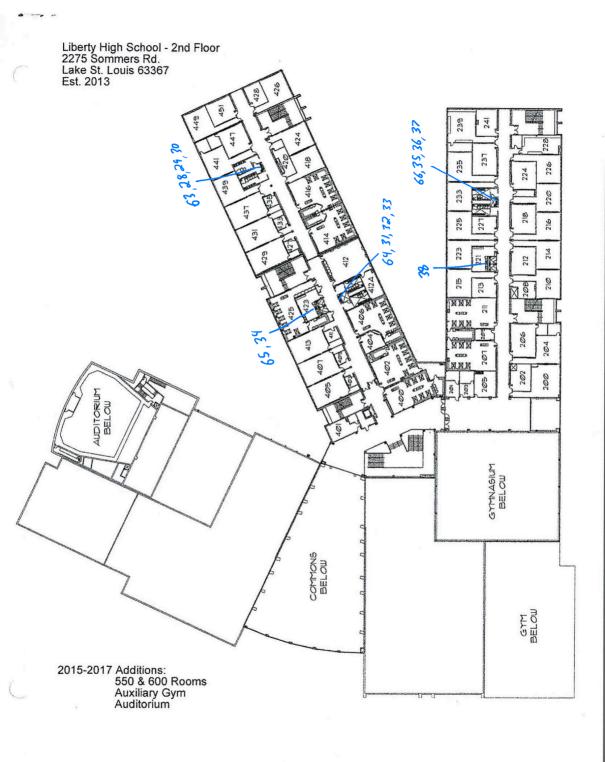
Water source is 5-19.9 ppb, but still displays evidence of lead. Recommendation is to re-test source on an annual basis at a minimum.

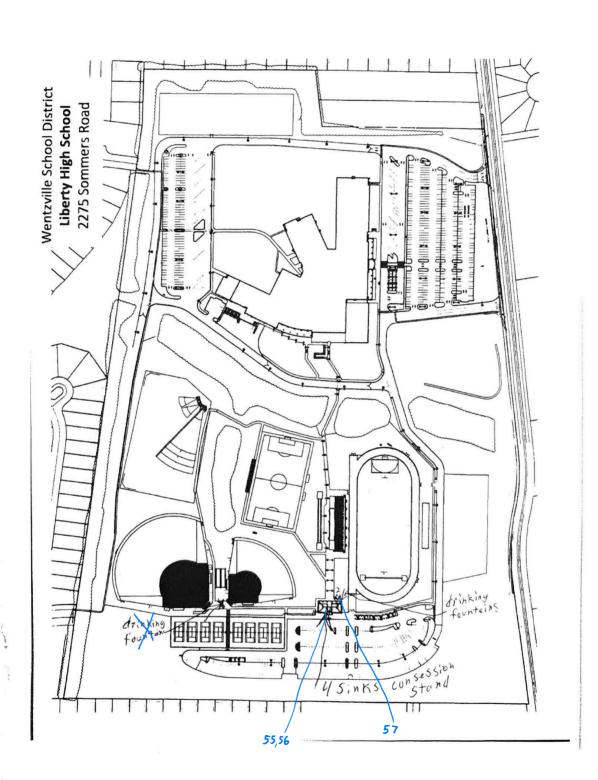
### **Sample Legend**

"A" = First Draw

"B" = Second Draw







# APPENDIX B LABORATORY ANALYSIS



November 03, 2023

Jim Yasitis
Environmental Consultants, LLC
#6 Meadow Heights Professional Park
Collinsville, IL 62234

TEL: (618) 343-3590 FAX: (618) 343-3597

TNI TNI TNI TNI

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

**RE:** Wentzville SD Water Sampling 231000104 Liberty WorkOrder: 23101950

Dear Jim Yasitis:

TEKLAB, INC received 70 samples on 10/24/2023 10:19:00 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

Mowin L. Darling I



# **Report Contents**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101950
Client Project: Wentzville SD Water Sampling 231000104 Liberty Report Date: 03-Nov-23

### This reporting package includes the following:

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Receiving Check List	9
Chain of Custody	Appended



#### **Definitions**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101950

Client Project: Wentzville SD Water Sampling 231000104 Liberty Report Date: 03-Nov-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 )



### **Definitions**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101950

Client Project: Wentzville SD Water Sampling 231000104 Liberty Report Date: 03-Nov-23

### Qualifiers

- # Unknown hydrocarbon
- C RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
  - S Spike Recovery outside recovery limits
  - X Value exceeds Maximum Contaminant Level

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)



### **Case Narrative**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101950 Report Date: 03-Nov-23

Client Project: Wentzville SD Water Sampling 231000104 Liberty

Cooler Receipt Temp: N/A °C

### **Locations**

	Collinsville		Springfield	Kansas City					
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road				
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214				
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998				
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998				
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com				
	Collinsville Air		Chicago						
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.						
	Collinsville, IL 62234-7425		Downers Grove, IL 60515						
Phone	(618) 344-1004	Phone	(630) 324-6855						
Fax	(618) 344-1005	Fax							
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com						



### **Accreditations**

### http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101950

Client Project: Wentzville SD Water Sampling 231000104 Liberty Report Date: 03-Nov-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: Environmental Consultants, LLC Work Order: 23101950

Client Project: Wentzville SD Water Sampling 231000104 Liberty Report Date: 03-Nov-23

Matrix: DRINKING WATER

	Client Sample ID		DI	Dogult	I Inita	DF	Data Analyzad	Data Callastad
-	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
•	200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
23101950-001A		NELAP	1.0	1.3	μg/L	1	11/01/2023 22:26	10/24/2023 3:00
23101950-002A		NELAP	1.0	< 1.0	μg/L	1	11/01/2023 22:30	10/24/2023 3:00
23101950-003A		NELAP	1.0	1.5	μg/L	1	11/01/2023 22:33	10/24/2023 3:00
23101950-004A		NELAP	1.0	< 1.0	μg/L	1	11/01/2023 11:01	10/24/2023 3:00
23101950-005A		NELAP	1.0	4.0	μg/L	1	11/01/2023 11:06	10/24/2023 3:00
23101950-006A		NELAP	1.0	< 1.0	μg/L	1	11/01/2023 11:10	10/24/2023 3:00
23101950-007A		NELAP	1.0	6.3	μg/L	5	11/02/2023 9:52	10/24/2023 3:00
23101950-008A		NELAP	1.0	< 1.0	μg/L	1	11/01/2023 11:14	10/24/2023 3:00
23101950-009A		NELAP	1.0	< 1.0	μg/L	1	11/01/2023 11:19	10/26/2023 0:00
23101950-010A	05B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 11:27	10/26/2023 0:00
23101950-011A	06A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 11:32	10/24/2023 3:00
23101950-012A	06B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 11:23	10/24/2023 3:00
23101950-013A	07A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 11:58	10/24/2023 3:00
23101950-014A	07B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 12:02	10/24/2023 3:00
23101950-015A	A80	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 12:06	10/24/2023 3:00
23101950-016A	08B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 12:10	10/24/2023 3:00
23101950-017A	09A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 12:15	10/24/2023 3:00
23101950-018A	09B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 12:19	10/24/2023 3:00
23101950-019A	10	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 12:23	10/24/2023 3:00
23101950-020A	11A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 12:54	10/24/2023 3:00
23101950-021A	11B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 12:28	10/24/2023 3:00
23101950-022A	12A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 12:58	10/24/2023 3:00
23101950-023A	12B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 13:02	10/24/2023 3:00
23101950-024A	13A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 13:06	10/24/2023 3:00
23101950-025A	13B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 13:11	10/24/2023 3:00
23101950-026A	14A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 13:15	10/24/2023 3:00
23101950-027A	14B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 13:24	10/24/2023 3:00
23101950-028A	15A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 13:19	10/24/2023 3:00
23101950-029A	15B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 13:50	10/24/2023 3:00
23101950-030A	16A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 13:54	10/24/2023 3:00
23101950-031A	16B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 13:58	10/24/2023 3:00
23101950-032A	17A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 14:03	10/24/2023 3:00
23101950-033A	17B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 14:07	10/24/2023 3:00
23101950-034A	18A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 14:11	10/24/2023 3:00
23101950-035A	18B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 14:15	10/24/2023 3:00
23101950-036A	19A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 14:20	10/24/2023 3:00
23101950-037A	19B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 14:24	10/24/2023 3:00
23101950-038A	20A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 14:28	10/24/2023 3:00
23101950-039A	20B	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 13:39	10/24/2023 3:00
23101950-040A	21A	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 13:11	10/24/2023 3:00
23101950-041A	21B	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 13:15	10/24/2023 3:00
23101950-042A	22A	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 13:19	10/24/2023 3:00
23101950-043A		NELAP	1.0	< 1.0	μg/L	1	11/02/2023 13:23	10/24/2023 3:00
23101950-044A	23A	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 13:27	10/24/2023 3:00
23101950-045A	23B	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 13:31	10/24/2023 3:00
23101950-046A	24	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 13:35	10/24/2023 3:00
23101950-047A	25A	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 14:03	10/24/2023 3:00
23101950-048A	25B	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 14:07	10/24/2023 3:00



# **Laboratory Results**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101950

Client Project: Wentzville SD Water Sampling 231000104 Liberty Report Date: 03-Nov-23

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	I, 200.8 R5.4, META	LS BY ICPMS (TOTAL)	)					
Lead								
23101950-049	A 26	NELAP	1.0	< 1.0	μg/L	5	11/02/2023 9:56	10/24/2023 3:00
23101950-050	A 27A	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 14:11	10/24/2023 3:00
23101950-051	A 27B	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 14:15	10/24/2023 3:00
23101950-052	A 28A	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 14:20	10/24/2023 3:00
23101950-053	A 28B	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 14:24	10/24/2023 3:00
23101950-054	A 29A	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 14:32	10/24/2023 3:00
23101950-055	A 29B	NELAP	1.0	< 1.0	μg/L	1	11/02/2023 14:28	10/24/2023 3:00
23101950-056	A 30A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 16:38	10/24/2023 3:00
23101950-057	A 30B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 16:42	10/24/2023 3:00
23101950-058	A 31A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 16:46	10/24/2023 3:00
23101950-059	A 31B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 17:08	10/24/2023 3:00
23101950-060	A 32A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 16:51	10/24/2023 3:00
23101950-061	A 32B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 16:55	10/24/2023 3:00
23101950-062	A 33A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 16:59	10/24/2023 3:00
23101950-063	A 33B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 17:03	10/24/2023 3:00
23101950-064	A 34A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 17:34	10/24/2023 3:00
23101950-065	A 34B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 17:38	10/24/2023 3:00
23101950-066	A 35A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 17:42	10/24/2023 3:00
23101950-067	A 35B	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 17:47	10/24/2023 3:00
23101950-068	A 36A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 18:04	10/24/2023 3:00
23101950-069	A 36B	NELAP	1.0	1.2	μg/L	1	11/01/2023 17:51	10/24/2023 3:00
23101950-070	A 37A	NELAP	1.0	< 1.0	μg/L	1	11/01/2023 17:55	10/24/2023 3:00



### **Receiving Check List**

http://www.teklabinc.com/

Work Order: 23101950 Client: Environmental Consultants, LLC Client Project: Wentzville SD Water Sampling 231000104 Liberty Report Date: 03-Nov-23 Carrier: Devon Rathbun Received By: AMD Elizabeth a Hurley Completed by: Reviewed by: On: On: 26-Oct-23 27-Oct-23 Elizabeth A. Hurley Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **~** Ice \_ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L No 🗹 Chain of custody agrees with sample labels? Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** Sample containers intact? Yes No Yes No Sufficient sample volume for indicated test? **~** No  $\square$ All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: Yes 🗸 No  $\square$ Container/Temp Blank temperature in compliance? 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 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀

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.

05A and 05B were not received. Per Devon Rathbun, client will recollect. - SAH/AMD/ehurley - 10/26/2023 5:45:44 PM

pg. 1 of 14 Work Order # 23101950

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City   State   Zip: Collinsville, IL 6	(2234							Lab	Blook	86,		<												
Contact: Jim Yasitis	Phone:	618-39	13-3	3590				44	AIS!	M IV	j	201	l (Gla	4183	Y	28_	W	VO:	$\Delta \chi$	$\omega_{\rm I}$	ШY	Иſ	Ma	*
E-Mail: <u>james, yasitis@jsheld.co</u>	m Fax:	618-39	13-3	597				Con L	nme Læ,	NS		IJ	Na	ulas Sc	lma	, C	ЭA	ð	$\mathbb{C}$	۵	9	m :12:	) <b>(</b> 2)	
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pg. 2 of 14 Work Order #23101950

Clip State (2): Collarentle, II 62279  Contact: Im Varitie Phone: 6/8-348-3590  E-Mail: james, varitie(); jteld.com Fax: 6/8-348-3590  Are these samples known to be involved in Highletter? If yes, a surcharge will apply. The II No. Are there are precised exporting limits to be medical the requested analysis? If yes, please provided in the involved in Highletter? If yes, a surcharge will apply. The II No. Are there are precised analysis? If yes, please provided in the involved in Highletter? If yes, a surcharge will apply. The II No. Are there are precised analysis? If yes, please provided in the involved in Highletter? If yes, a surcharge will apply. The II No. Are there are precised analysis? If yes, please provided in the involved in Highletter? If yes, a surcharge will apply. The II No. Are the involved in Highletter? If yes, a surcharge will apply. The II No. Are the involved in Highletter? If yes, a surcharge will apply. The II No. Are the involved in Highletter? If yes, a surcharge will apply. The II No. Are the involved in Highletter? If yes, a surcharge will apply. The II No. Are the involved in Highletter? If yes, a surcharge will apply. The II No. Are the involved in Highletter? If yes, a surcharge will apply. The II No. Are the involved in Highletter? If yes, a surcharge will apply. The II No. Are the involved in Highletter. If yes, a surcharge will apply. The II No. Are the II No. Are the involved in Highletter. If yes, a surcharge will apply. The II No. Are the II No.													
City / State / Zip: Collinsville, TL 62234  Contact: Im / Asitis	Client: J. S. Held		5	lample	ion: E	Ice	🗆 Blue lo	te 🖸 N	o ica		_ eg		
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Contact: Jim Vasitis Phone: 6/8-34/3-3590  E-Mail: James, gasitis@jsheld.com Fax: 6/8-34/3-3597  Are these samples known to be involved in litigation? If yes, a surcharge will apply. If yee If No Are these samples known to be hazardous? If yes, a surcharge will apply. If yee If No Are these samples known to be hazardous? If yes, a surcharge will apply. If yee, please provide limits in comments section. If Yes If No Project Name I Number Waster Sampling  Project Name I Number Sampling  Results Requested Standard I - 2-Day (100% Surcharge)  Billing Instructions  # and Type of Containers  # and Type of Container				ab Not	45.								
E-Mail: james, yas:/iy@jsheld.com Fax: 6/3-341-3597  Are these samples known to be involved in intigation? If yes, a surcharge will apply. If yes is No Are these samples known to be hazerdous? If yes, a surcharge will apply. If yes, please provide limits in comment section. Elves In No Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Elves In No Are there are required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. Elves In No Are the sample Collector's Name Project Name /			3590										
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pg. 3 of 14 Work Order \$23101950

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pg. 4 of 14 Work Order # 23101950

Client: J. S. Held					San	ples	on:		ce l	3 Blue	lce	🗆 No	Ica			°C			
Address: 6 Meadow Heig	hts Prof Park				Pres	erve	on.	Ø	Lab	OF	eld.	FC	)R LAI	) USE	OML	<u>Y</u>			
City   State   Zip: Collinsville, IL 6	(2234				Lab	Nob	iĝ.												
Contact: Jim Yasitis	Phone: 6/2	- 343-35	90																
E-Mail: james. yasitis@jsheld.co.	n Fax: <u>6/</u>	7-343-35	97		Con L			L	. U i	Sci	e Open	ı							
Are these samples known to be involved in lition Are these samples known to be hazardous? If Are there any required reporting limits to be maked in comment section. 图 Yes 日 No	☐ Yes ☑ No let on the requested ar	alysis? If ye	es, please	provide						200 F	*VV								
Project Name / Number	Sample Co	ilector's	Name			MAT	RIX				NDIC	ATE A	NALY:	SIS RE	EQUE	STE	D	<del></del>	
Wentzuille SD Water Sampling 231000104	Brad Frise	h-				fer	Chrysle Market		()		CACTOR MANAGEM						-		
Results Requested Bi	lling Instructions	# and Ty				y We		93	(DM)		A PROPERTY AND A PROP								
☑ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other ☐ 3 Day (50% Surcharge)	•	UNPRES FNO3	. Z	HÖ,	Water	Drinking Water	Soit	Sp. Waste	~	- Amplement Cres	energy begggdddiadd						A CANADA SA		
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pg. <u>5</u> of <u>14</u> Work Order # <u>23101950</u>

Client: J.S. Held			51	mpleson: 🖫	ice I Blueice I Noice	e
Address: 6 Meadow Height	's Prof Park		Pn	eservedin: E	Lab El Field <u>FOR</u>	LAB:USE ONLY
City   State   Zip: Collinsville, IL 62	?234		l II.a	b Hales:		
Contact: Jim Yasitis	_ Phone: <u>6/8-</u>	343-3590				
E-Mail: james, yasitis@jsheld.com	Fax:6/8-	343-3597		maments: . Lec IV	HiYk School	
* Are these samples known to be involved in litigat  Are these samples known to be hazardous?   Are there any required reporting limits to be met limits in comment section.	-		INU DO			
Project Name / Number Wentzuille SD Water Sampling	Sample Coll	ector's Name		MATRIX	INDICATE ANA	LYSIS REQUESTED
231000104	Brad Frisch			aker.		
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☐ Other ☐ 3 Day (50% Surcharge)	ate/Time Sampled		NaHSO4 Other	Water Drinking Water Soil Sludge Sp. Waste	ad	
Lab Use Only Sample Identification D	ate/Time Sampled	Nac Rec Nac Nac	Z O Z		Lea	
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050 274	VU	χ		χ	X	
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	- January					<u> </u>

pg. 6 of 14 Work Order # 23101950

Client: J. S. Held							aichp	les c	ın.		CØ.	I Blue	ice	🗆 Ni	i Ica				°C		
Address: 6 Meadow He	ights Prof Park	•			_	P	resc	ryed	ikl;	Ø	Laio	OF.	icid :	Ē	or i	AB:	USE.	ONL	1		
City   State   Zip: Collinsuille, IL	6.2234						ab k	lokat													
Contact: Jim Yasitis	Phone: _6	18-343-	3590																		
E-Mall: james. yasitis@jsheld.c	om Fax: <u>6</u>	18-343-	3597			III.		neni A		L	' 'G'I	. <i>Sc.</i>	i oga								
Are these samples known to be involved in I Are these samples known to be hazardous? Are there any required reporting limits to be limits in comment section. 图 Yes □ No	☐ Yes ☑ No met on the requested	analysis? I	f yes, plo	ease pr		'   W						27b.									
Project Name / Number	Sample	Collector	's Nam	e ·			N	atr	N			-	indic.	ate /	ANAL	LYSI	SRE	QUE	STE	D	 
Wentzville SD Water Sampling 231000104	Brad Fri	rch						Water				SEEDING AN APPLICATION									
	Billing Instruction		Type of					a Wea	-	93	(md)										l
☑ Standard □ 1-2 Day (100% Surcharge) □ Other □ 3 Day (50% Surcharge) □ Lab Use Only Sample Identification	•	N N N	¥ ő		NaMSO4	h	Water	Drinking Soil	Sludge	Sp. Waste	~		overent Decades							- Automotive	
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pg. 7 of 14 Work Order #2310 950

Summer District Distr

Client:	J.S. Held									ami	iles	фħ	ı, E	] le	co I	J (B)	ue le	ję i	3 N	o Ica				<b>e</b> 6			
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City / State / Zip	: Collinsuille, IL 6	2234								ab i	lok	lŝ,															
Contact: Jim	Yasitis .	Pho	one: <u>6/8</u> -	343	359	0																					
E-Mail: james	. yasitis@jsheld.co	n Fax	: <u>618</u>	-343	359	7				om				U	iyı	C	<i>71</i>	-0,41									
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Results R				# and						900	3 We	An action construction		9	(pm)	COC-MANAGEMENT	and the second second	C. C									
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October 30, 2023

Jeff Faust Environmental Consultants, LLC #6 Meadow Heights Professional Park Collinsville, IL 62234

TEL: (618) 343-3590 FAX: (618) 343-3597 TNI PBORATORY

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

**RE:** Wentzville SD Water Sampling 231000104 - Holt WorkOrder: 23101292

High

Dear Jeff Faust:

TEKLAB, INC received 63 samples on 10/17/2023 11:19:00 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

Mowin L. Darling I



# **Report Contents**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101292
Client Project: Wentzville SD Water Sampling 231000104 - Holt High Report Date: 30-Oct-23

### This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	9
Chain of Custody	Appended



#### **Definitions**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101292

Client Project: Wentzville SD Water Sampling 231000104 - Holt High Report Date: 30-Oct-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 )



### **Definitions**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101292

Client Project: Wentzville SD Water Sampling 231000104 - Holt High Report Date: 30-Oct-23

#### **Qualifiers**

- # Unknown hydrocarbon
- C RL shown is a Client Requested Quantitation Limit
- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
  - S Spike Recovery outside recovery limits
  - X Value exceeds Maximum Contaminant Level

- B Analyte detected in associated Method Blank
- E Value above quantitation range
- I Associated internal standard was outside method criteria
- M Manual Integration used to determine area response
- R RPD outside accepted recovery limits
- T TIC(Tentatively identified compound)



### **Case Narrative**

http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101292

Client Project: Wentzville SD Water Sampling 231000104 - Holt High Report Date: 30-Oct-23

Cooler Receipt Temp: N/A °C

### **Locations**

	Collinsville		Springfield		Kansas City
Address	5445 Horseshoe Lake Road	Address	3920 Pintail Dr	Address	8421 Nieman Road
	Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214
Phone	(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998
Fax	(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998
Email	jhriley@teklabinc.com	Email	KKlostermann@teklabinc.com	Email	jhriley@teklabinc.com
	Collinsville Air		Chicago		
Address	5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.		
	Collinsville, IL 62234-7425		Downers Grove, IL 60515		
Phone	(618) 344-1004	Phone	(630) 324-6855		
Fax	(618) 344-1005	Fax			
Email	EHurley@teklabinc.com	Email	arenner@teklabinc.com		



# **Accreditations**

#### http://www.teklabinc.com/

Client: Environmental Consultants, LLC Work Order: 23101292

Client Project: Wentzville SD Water Sampling 231000104 - Holt High Report Date: 30-Oct-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/

Report Date: 30-Oct-23

Client: Environmental Consultants, LLC Work Order: 23101292

Client Project: Wentzville SD Water Sampling 231000104 - Holt High

Matrix: DRINKING WATER

Matrix	DRINKING WAT	EK						
Sample ID C	Client Sample ID	Certification (	Qual RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 2	200.8 R5.4, META	LS BY ICPMS (TO	OTAL)					
Lead	,		,					
23101292-001A	36B	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 17:46	10/17/2023 4:00
23101292-002A	37A	NELAP	1.0	2.3	μg/L	1	10/25/2023 17:49	10/17/2023 4:00
23101292-003A	37B	NELAP	1.0	1.8	μg/L	1	10/25/2023 17:53	10/17/2023 4:00
23101292-004A	38A	NELAP	1.0	2.4	μg/L	1	10/25/2023 18:04	10/17/2023 4:00
23101292-005A	38B	NELAP	1.0	3.3	μg/L	1	10/25/2023 18:08	10/17/2023 4:00
23101292-006A	39A	NELAP	1.0	2.5	μg/L	1	10/25/2023 18:11	10/17/2023 4:00
23101292-007A	39B	NELAP	1.0	3.3	μg/L	1	10/25/2023 18:15	10/17/2023 4:00
23101292-008A	40A	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 18:19	10/17/2023 4:00
23101292-009A	40B	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 18:33	10/17/2023 4:00
23101292-010A	41A	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 18:37	10/17/2023 4:00
23101292-011A		NELAP	1.0	< 1.0	μg/L	1	10/25/2023 18:41	10/17/2023 4:00
23101292-012A	42A	NELAP	1.0	3.6	μg/L	1	10/25/2023 18:44	10/17/2023 4:00
23101292-013A	42B	NELAP	1.0	5.4	μg/L	1	10/25/2023 18:48	10/17/2023 4:00
23101292-014A	43A	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 18:59	10/17/2023 4:00
23101292-015A	43B	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 19:02	10/17/2023 4:00
23101292-016A	44A	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 19:06	10/17/2023 4:00
23101292-017A	44B	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 19:21	10/17/2023 4:00
23101292-018A	45A	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 19:24	10/17/2023 4:00
23101292-019A	45B	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 19:35	10/17/2023 4:00
23101292-020A	46A	NELAP	1.0	1.4	μg/L	1	10/25/2023 19:39	10/17/2023 4:00
23101292-021A	46B	NELAP	1.0	< 1.0	μg/L	1	10/25/2023 19:43	10/17/2023 4:00
23101292-022A	47A	NELAP	1.0	6.4	μg/L	1	10/25/2023 19:46	10/17/2023 4:00
23101292-023A	47B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 10:39	10/17/2023 4:00
23101292-024A	48A	NELAP	1.0	2.6	μg/L	1	10/27/2023 10:21	10/17/2023 4:00
23101292-025A	48B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 10:26	10/17/2023 4:00
23101292-026A	49	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 10:30	10/17/2023 4:00
23101292-027A	50A	NELAP	1.0	2.2	μg/L	1	10/27/2023 10:34	10/17/2023 4:00
23101292-028A	50B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 11:05	10/17/2023 4:00
23101292-029A	51A	NELAP	1.0	9.9	μg/L	1	10/27/2023 11:09	10/17/2023 4:00
23101292-030A	51B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 11:13	10/17/2023 4:00
23101292-031A	52A	NELAP	1.0	1.0	μg/L	1	10/27/2023 11:18	10/17/2023 4:00
23101292-032A	52B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 11:22	10/17/2023 4:00
23101292-033A		NELAP	1.0	5.8	μg/L	1	10/27/2023 11:35	10/17/2023 4:00
23101292-034A	53B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 11:26	10/17/2023 4:00
23101292-035A	54A	NELAP	1.0	4.8	μg/L	1	10/27/2023 11:31	10/17/2023 4:00
23101292-036A	54B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 12:01	10/17/2023 4:00
23101292-037A	55A	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 12:05	10/17/2023 4:00
23101292-038A	55B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 12:09	10/17/2023 4:00
23101292-039A	56A	NELAP	1.0	2.6	μg/L	1	10/27/2023 12:14	10/17/2023 4:00
23101292-040A	56B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 12:18	10/17/2023 4:00
23101292-041A	57A	NELAP	1.0	23.2	μg/L	1	10/27/2023 12:22	10/17/2023 4:00
23101292-042A	57B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 12:26	10/17/2023 4:00
23101292-043A	58A	NELAP	1.0	10.8	μg/L	1	10/27/2023 12:31	10/17/2023 4:00
23101292-044A	58B	NELAP	1.0	1.3	μg/L	1	10/27/2023 12:57	10/17/2023 4:00
23101292-045A	59A	NELAP	1.0	1.2	μg/L	1	10/27/2023 13:01	10/17/2023 4:00
23101292-046A	59B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 13:05	10/17/2023 4:00
23101292-047A	60A	NELAP	1.0	< 1.0	μg/L μg/L	1	10/27/2023 13:10	10/17/2023 4:00
23101292-047A	60B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 13:10	10/17/2023 4:00
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# **Laboratory Results**

#### http://www.teklabinc.com/

Report Date: 30-Oct-23

Client: Environmental Consultants, LLC Work Order: 23101292

Client Project: Wentzville SD Water Sampling 231000104 - Holt High

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4	4, 200.8 R5.4, META	LS BY ICPMS (TOTAL)						
Lead								
23101292-049	A 61A	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 13:18	10/17/2023 4:00
23101292-050	A 62B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 13:22	10/17/2023 4:00
23101292-051	A 63A	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 13:53	10/17/2023 4:00
23101292-052	A 63B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 13:57	10/17/2023 4:00
23101292-053	A 64A	NELAP	1.0	2.2	μg/L	1	10/27/2023 13:27	10/17/2023 4:00
23101292-054	A 64B	NELAP	1.0	3.3	μg/L	1	10/27/2023 14:01	10/17/2023 4:00
23101292-055	A 65A	NELAP	1.0	3.9	μg/L	1	10/27/2023 14:06	10/17/2023 4:00
23101292-056	A 65B	NELAP	1.0	4.5	μg/L	1	10/27/2023 14:10	10/17/2023 4:00
23101292-057	A 66	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 14:14	10/17/2023 4:00
23101292-058	A 67A	NELAP	1.0	3.7	μg/L	1	10/27/2023 14:19	10/17/2023 4:00
23101292-059	A 67B	NELAP	1.0	4.5	μg/L	1	10/27/2023 16:02	10/17/2023 4:00
23101292-060	A 68A	NELAP	1.0	2.5	μg/L	1	10/27/2023 16:06	10/17/2023 4:00
23101292-061	A 68B	NELAP	1.0	4.1	μg/L	1	10/27/2023 16:15	10/17/2023 0:00
23101292-062	A 61B	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 16:11	10/17/2023 4:00
23101292-063	A 62A	NELAP	1.0	< 1.0	μg/L	1	10/27/2023 16:41	10/17/2023 4:00



### **Receiving Check List**

http://www.teklabinc.com/

Work Order: 23101292 Client: Environmental Consultants, LLC Client Project: Wentzville SD Water Sampling 231000104 - Holt High Report Date: 30-Oct-23 Carrier: Employee Received By: AMD Completed by: Reviewed by: OMOON DISCULC On: On: 18-Oct-23 18-Oct-23 Amber Dilallo Ellie Hopkins Extra pages included 4 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **V** Ice \_ Blue Ice None Dry Ice Chain of custody present? **~** No L Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** Samples in proper container/bottle? Yes No 🗀 **V** Sample containers intact? Yes No Yes **~** No Sufficient sample volume for indicated test? **~** No  $\square$ All samples received within holding time? Yes NA 🗸 Field Lab 🗌 Reported field parameters measured: Yes 🗸 No 🗌 Container/Temp Blank temperature in compliance? 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 🗸 No TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No  $\square$ 

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 10/18/2023 1:36:35 PM

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

61B and 62A received but not listed on CoC. - AMD/ERH 10/18/23

pg. 8 of 14 Work Order # 1000

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E-Mail: james	.yasitis@jsheld.com	· Fax:	618-	343-	359	7			C	DIN	nen	KS.													ŽIII	<b>3</b> 0 %	
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pg. <u>10 of 14</u> Work Order # 23101 293

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pg. 12 of 14 Work Order # <u>33101292</u>

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Contact: Jim Yasitis	Phone	618-	343-	3590																					
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#### TABLE 1

# Drinking Water Sampling for Lead Content Wentzville R-IV School District Holt High School

Sampled: October 17, 2023

Samp	ole ID Location	Water Source	Results (ppb)
01A	Near Room A310	Fountain	Microsophic Commission of the
01B	Near Room A310	Fountain	
02A	Near Room A342 (Right)	Fountain	
02B	Near Room A342 (Right)	Fountain	
03A	Near Room A342 (Left)	Fountain	
03B	Near Room A342 (Left)	Fountain	
04A	3 <sup>rd</sup> Floor Addition Room 504 (Right)	Fountain	
04B	3 <sup>rd</sup> Floor Addition Room 504 (Right)	Fountain	
05A	3 <sup>rd</sup> Floor Addition Room 504 (Left)	Fountain	
05B	3 <sup>rd</sup> Floor Addition Room 504 (Left)	Fountain	
06A	Food Lab Room A336 West Island	Sink	
06B	Food Lab Room A336 West Island	Sink	
07A	Food Lab Room A336 Dishwashing West	Sink	
07B	Food Lab Room A336 Dishwashing West	Sink	
08A	Food Lab Room A336 North 3-bay (Right)	Sink	
08B	Food Lab Room A336 North 3-bay (Right)	Sink	
09A	Food Lab Room A336 North 3-bay (Left)	Sink	
09B	Food Lab Room A336 North 3-bay (Left)	Sink	
10A	Food Lab Room A336 North 2-bay	Sink	
10B	Food Lab Room A336 North 2-bay	Sink	
11A	Food Lab Room A338 Pre-K	Sink	
11B	Food Lab Room A338 Pre-K	Sink	
. 12A	Near Room A415 (Right)	Fountain	
12B	Near Room A415 (Right)	Fountain	
13A	Near Room A415 (Left)	Fountain	
13B	Near Room A415 (Left)	Fountain	
14A	Near Room A401 Guidance Office (Right)	Fountain	
14B	Near Room A401 Guidance Office (Right)	Fountain	
15A	Near Room A401 Guidance Office (Left)	Fountain	
15B	Near Room A401 Guidance Office (Left)	Fountain	
16A	Gym Foyer	Fountain	
16B	Gym Foyer	Fountain	
17A	Near Nurses Office (Right)	Fountain	
17B	Near Nurses Office (Right)	Fountain	
18A	Near Nurses Office (Left)	Fountain	

Samp	le ID Location	Water Source	Results (ppb)
18B	Near Nurses Office (Left)	Fountain	
19A	Nurse's Office	Sink	
19B	Nurse's Office	Sink	
20	Nurse's Office	Ice Machine	
21A	Near Room B107 (Right)	Fountain	
21B	Near Room B107 (Right)	Fountain	
22A	Near Room B107 (Left)	Fountain	
22B	Near Room B107 (Left)	Fountain	
23A	Boys Locker Room (Right)	Fountain	
23B	Boys Locker Room (Right)	Fountain	
24A	Boys Locker Room (Left)	Fountain	
24B	Boys Locker Room (Left)	Fountain	
25A	Near Room B104 Boys Locker Room (R)	Fountain	
25B	Near Room B104 Boys Locker Room (R)	Fountain	
26A	Near Room B104 Boys Locker Room (L)	Fountain	
26B	Near Room B104 Boys Locker Room (L)	Fountain	
27A	Girls Locker Room (Right)	Fountain	
27B	Girls Locker Room (Right)	Fountain	
28A	Girls Locker Room (Left)	Fountain	
28B	Girls Locker Room (Left)	Fountain	
29A	B99F Girl's Locker Room (Right)	Fountain	
29B	B99F Girl's Locker Room (Right)	Fountain	
30A	B99F Girl's Locker Room (Left)	Fountain	
30B	B99F Girl's Locker Room (Left)	Fountain	
31A	B99B Boy's Locker Room (Right)	Fountain	
31B	B99B Boy's Locker Room (Right)	Fountain	
32A	B99B Boy's Locker Room (Left)	Fountain	
32B	B99B Boy's Locker Room (Left)	Fountain	
33A	By A99B Restroom (Right)	Fountain	
33B	By A99B Restroom (Right)	Fountain	
34A	By A99B Restroom (Left)	Fountain	
34B	By A99B Restroom (Left)	Fountain	
35A	Small Gym Concession Stand A990	Sink	
35A	Small Gym Concession Stand A 990	Sink	
36A	Gym Concession Stand	Sink Sink	
36B	Gym Concession Stand Assault Near Room B405 Jones Auditorium	Fountain	
37A 37B	Near Room B405 Jones Auditorium	Fountain	
37B	Near Room B409 (Right)	Fountain	
38B	Near Room B409 (Right)	Fountain	
39A	Near Room B409 (Left)	Fountain	
39B	Near Room B409 (Left)	Fountain	
40A	Near Room B410 (Right)	Fountain	
40B	Near Room B410 (Right)	Fountain	

Samp	le ID Location	Water Source	Results (ppb)
41A	Near Room B410 (Left)	Fountain	
41B	Near Room B410 (Left)	Fountain	
42A	Near Room B426	Fountain	
42B	Near Room B426	Fountain	
43A	Near Room B305 (Right)	Fountain	
43B	Near Room B305 (Right)	Fountain	
44A	Near Room B305 (Left)	Fountain	
44B	Near Room B305 (Left)	Fountain	
45A	South Pan Storage Area	Sink	
45B	South Pan Storage Area	Sink	
46A	South Kitchen- Pot Filler	Sink	
46B	South Kitchen- Pot Filler	Sink	
47A	South Kitchen- Middle (Left)	Sink	
47B	South Kitchen- Middle (Left)	Sink	
48A	South Kitchen- Middle (Right)	Sink	
48B	South Kitchen- Middle (Right)	Sink	
49	North Kitchen-Ice Machine	Ice Machine	
50A	North Kitchen- Near Serving Station	Sink	
50B	North Kitchen- Near Serving Station	Sink	
51A	North Kitchen- Dishwashing Sink (Left)	Sink	
51B	North Kitchen- Dishwashing Sink (Left)	Sink	
52A	North Kitchen- Dishwashing Sink (Middle)	Sink	
52B	North Kitchen-Dishwashing Sink (Middle)	Sink	
53A	North Kitchen- Dishwashing Sink (Right)	Sink	
53B	North Kitchen- Dishwashing Sink (Right)	Sink	
54A	North Kitchen- Near Freezer (Right)	Sink	
54B	North Kitchen- Near Freezer (Right)	Sink	
55A	North Kitchen- Near Freezer (Left)	Sink	
55B	North Kitchen- Near Freezer (Left)	Sink	
56A	North Middle Section (Right)	Sink	
56B	North Middle Section (Right)	Sink	
57A	North Middle Section (Middle)	Sink	
57B	North Middle Section (Middle)	Sink	
58A	North Middle Section (Left)	Sink	
58B	North Middle Section (Left)	Sink	
59A	North Kitchen- Pot Filler	Sink	
59B	North Kitchen- Pot Filler	Sink	
60A	Cafeteria- Women's Restroom (Right)	Fountain	
60B	Cafeteria- Women's Restroom (Right)	Fountain	
61A	Cafeteria- Women's Restroom (Left)	Fountain	
61B	Cafeteria- Women's Restroom (Left)	Fountain	
62A	Cafeteria- Men's Restrooms (Right)	Fountain	
62B	Cafeteria- Men's Restrooms (Right)	Fountain	
63A	Cafeteria- Men's Restrooms (Left)	Fountain	
63B	Cafeteria- Men's Restrooms (Left)	Fountain	

Samp	le ID Location	Water Source	Results (ppb)
64A	Sobey Field – Concession Stand	Sink	
64B	Sobey Field - Concession Stand	Sink	
65A	Baseball Field - Concession Stand	Sink	
65B	Baseball Field - Concession Stand	Sink	
66	Baseball Field - Concession Stand	Ice Machine	
67A	Baseball Field (Right)	Fountain	
67B	Baseball Field (Right)	Fountain	
68A	Baseball Field (Left)	Fountain	
68B	Baseball Field (Left)	Fountain	



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 < 20 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

# 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



Daves J. Nichelson

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

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

# PUBLIC HEALTH & SOCIAL JUSTICE

SAINT LOUIS UNIVERSITY

CENTER FOR ENVIRONMENTAL EDUCATION AND TRAINING

verifies that

# Brad Frisch

2668 Kettering Court, Saint Charles, MO 63303

contact hours of training and successfully passed an examination  $\infty$ has attended

Lead Risk Assessor Refresher

St. Louis, MO

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

Christopher C. Kinc

Director, Center for Environmental Education and Training

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 slu.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.

# 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 Number	930	Godflood
Date Issued	December 13, 2021	Laboratory Ced frication Authority, Public Drinking Water Branch Missouri Department of Natural Resources
Expiration Date	January 31, 2025	Rola Visel
		Laboratory Certification Officer, Environmental Services Program

# STATE OF ILLINOIS

# **ENVIRONMENTAL PROTECTION AGENCY NELAP - RECOGNIZED**

# **ENVIRONMENTAL LABORATORY ACCREDITATION**

is hereby granted to

Teklab, Incorporated 5445 Horseshoe Lake Rd. Collinsville, IL 62234 **NELAP ACCREDITED** 

Accreditation Number #100226



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Primary Accrediting Authority: Illinois

Millie Rose Supervisor

Environmental Laboratory Accreditation Program

Certificate No: 1002262023-17

Expiration Date: 1/31/2024 Issued On: 4/11/2023

MillicRose

# State of Illinois

# **Environmental Protection Agency**

# **Awards the Certificate of Approval to:**

Teklab, Incorporated 5445 Horseshoe Lake Rd. Collinsville, IL 62234

The Illinois Environmental Laboratory Accreditation Program encourages all clients and data users to verify the most current scope of accreditation for Teklab, Incorporated.

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Non Potable Water)	
Method EPA 120.1	п
Conductivity	IL
Method EPA 1631E	
Mercury	IL
Method EPA 1664A Rev: 1	
Oil & Grease	IL
Method EPA 180.1 Rev: 2	
Turbidity	IL
Method EPA 200.7 Rev: 4.4	
Aluminum	IL
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	IL
Boron	IL
Cadmium	IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Iron	IL
Lead	IL
Magnesium	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Phosphorus	IL 
Potassium	IL 
Selenium	IL 
Silver	IL :
Sodium	IL II
Thallium	IL II
Tin Titanium	IL IL
Vanadium	IL IL
Zinc	IL
	IL
Method EPA 200.8 Rev: 5.4	
Aluminum	IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Non Potable Water)	
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	IL
Cadmium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Lead	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Selenium	IL
Silver	IL
Thallium	IL
Vanadium	IL
Zinc	IL
Method EPA 245.1 Rev: 3	
Mercury	IL
Method EPA 335.4 Rev: 1	
Cyanide	IL
Method EPA 350.1 Rev: 2	
Ammonia as N	IL
	12
Method EPA 351.2 Rev: 2	
Total Kjeldahl Nitrogen (TKN)	IL
Method EPA 353.2 Rev: 2	
Nitrate	IL
Nitrate-nitrite	IL
Nitrite as N	IL
Method EPA 365.4	
Phosphorus	IL
Method EPA 375.2 Rev: 2	
Sulfate	IL
Method EPA 410.4 Rev: 2	
Chemical oxygen demand	IL
	12
Method EPA 420.1	п
Total phenolics	IL
Method EPA 420.4 Rev: 1	
Total phenolics	IL
Method EPA 608.3 GC-ECD	
4,4'-DDD	IL
4,4'-DDE	IL
4,4'-DDT	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Araclar-1242 (PCB-1242)	II

IL

Aroclor-1242 (PCB-1242)

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: CWA (Non Potable Water) Aroclor-1248 (PCB-1248) IL Aroclor-1254 (PCB-1254) IL Aroclor-1260 (PCB-1260) IL beta-BHC (beta-Hexachlorocyclohexane) IL Chlordane (tech.)(N.O.S.) IL delta-BHC IL Dieldrin IL IL Endosulfan I Endosulfan II IL Endosulfan sulfate IL Endrin IL Endrin aldehyde IL gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) IL Heptachlor IL Heptachlor epoxide IL Methoxychlor IL IL Toxaphene (Chlorinated camphene) Method EPA 615 2,4,5-T IL 2,4-D IL Dicamba IL Silvex (2,4,5-TP) IL Method EPA 624.1 1,1,1-Trichloroethane IL 1,1,2,2-Tetrachloroethane IL 1,1,2-Trichloroethane IL 1,1-Dichloroethane IL 1,1-Dichloroethylene IL 1,2-Dichlorobenzene (o-Dichlorobenzene) IL 1,2-Dichloroethane (Ethylene dichloride) IL 1,2-Dichloropropane IL 1,3-Dichlorobenzene IL 1,4-Dichlorobenzene IL 2-Chloroethyl vinyl ether IL Acetonitrile IL Acrolein (Propenal) IL Acrylonitrile IL Benzene IL Bromodichloromethane IL IL Bromoform IL Carbon tetrachloride Chlorobenzene IL Chlorodibromomethane IL Chloroethane (Ethyl chloride) IL Chloroform IL cis-1,3-Dichloropropene IL Ethylbenzene IL Methyl bromide (Bromomethane) IL Methyl chloride (Chloromethane) IL Methyl tert-butyl ether (MTBE) IL Methylene chloride (Dichloromethane) IL

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: CWA (Non Potable Water) Tetrachloroethylene (Perchloroethylene) IL Toluene IL trans-1,2-Dichloroethylene IL trans-1,3-Dichloropropylene IL Trichloroethene (Trichloroethylene) IL Trichlorofluoromethane (Fluorotrichloromethane, Freon 11) IL IL Vinyl chloride IL Xylene (total) Method EPA 625.1 1,2,4-Trichlorobenzene IL 2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether IL 2,4,6-Trichlorophenol IL IL 2,4-Dichlorophenol IL 2,4-Dimethylphenol 2,4-Dinitrophenol IL 2,4-Dinitrotoluene (2,4-DNT) IL 2,6-Dinitrotoluene (2,6-DNT) IL 2-Chloronaphthalene IL 2-Chlorophenol IL 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) IL 2-Nitrophenol IL 3,3'-Dichlorobenzidine IL IL 4-Bromophenyl phenyl ether IL 4-Chloro-3-methylphenol 4-Chlorophenyl phenylether IL 4-Nitrophenol IL Acenaphthene IL Acenaphthylene IL Anthracene IL Benzidine IL Benzo(a)anthracene IL Benzo(a)pyrene IL Benzo(b)fluoranthene IL IL Benzo(g,h,i)perylene IL Benzo(k)fluoranthene bis(2-Chloroethoxy)methane IL bis(2-Chloroethyl) ether IL bis(2-Ethylhexyl) phthalate (DEHP) IL Butyl benzyl phthalate IL Carbazole IL Chrysene IL IL Dibenz(a,h) anthracene Diethyl phthalate IL Dimethyl phthalate IL IL Di-n-butyl phthalate Di-n-octyl phthalate IL Fluoranthene ILFluorene IL Hexachlorobenzene IL Hexachlorobutadiene IL IL Hexachlorocyclopentadiene Hexachloroethane IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Non Potable Water)	
Indeno(1,2,3-cd) pyrene	IL
Isophorone	IL
Naphthalene	IL
Nitrobenzene	IL
n-Nitrosodimethylamine	IL
n-Nitrosodi-n-propylamine	IL 
n-Nitrosodiphenylamine	IL
Pentachlorophenol Phenanthrene	IL IL
Phenol	IL IL
Pyrene	IL
Pyridine	IL
Method OIA 1677-09	
Available Cyanide	IL
Method SM 2120 B-2011	
Color	IL
Method SM 2130 B-2011	, <u> </u>
Turbidity	IL
•	IL.
Method SM 2310 B-2011	IL
Acidity, as CaCO3	IL
Method SM 2320 B-2011	
Alkalinity as CaCO3	IL
Method SM 2340 B-1997	
Hardness	IL
Method SM 2510 B-2011	
Conductivity	IL
Method SM 2540 B-2011	
Residue-total	IL
Method SM 2540 C-2011	
Residue-filterable (TDS)	IL
Method SM 2540 D-2011	
Residue-nonfilterable (TSS)	IL
Method SM 2540 E-2011	
Residue-volatile	IL
Method SM 2540 F-2011	
Residue-settleable	IL
Method SM 3500-Cr B-2011	
Chromium VI	IL
Method SM 4500-CI G-2011	
Total residual chlorine	IL
Method SM 4500-CI C-1997	
Chloride	IL
Method SM 4500-Cl C-2011	
Chloride	IL
Method SM 4500-Cl E-2000	· <b>-</b>
Chloride	IL
	12
Method SM 4500-CI E-2011	

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Non Potable Water) Chloride	IL
Method SM 4500-F C-2011 Fluoride	IL
<b>Method SM 4500-H+ B-2011</b> pH	IL
Method SM 4500-NH3 G-2011 Ammonia	IL
Method SM 4500-NO2 B-2011 Nitrite	IL
Method SM 4500-NO3 F-2000 Nitrate plus Nitrite as N	IL
Method SM 4500-O G-2001 Oxygen, dissolved	IL
Method SM 4500-P E-2011 Orthophosphate as P	IL
Method SM 4500-S2 D-2011 Sulfide	IL
Method SM 4500-SO3 B-2011 Sulfite-SO3	IL
Method SM 5210 B-2011  Biochemical oxygen demand Carbonaceous BOD, CBOD	IL IL
Method SM 5220 D-2011 Chemical oxygen demand	IL
Method SM 5310 C-2011  Total organic carbon	IL
Method SM 5540 C-2011 Surfactants - MBAS	IL

Field of Testing /Matrix: CWA (Solid & Hazardous Material)	
Method EPA 160.4	
Residue-volatile	IL
	·-
Method EPA 245.1 Rev: 3	
Mercury	IL
Method EPA 351.2 Rev: 2	
Total Kjeldahl Nitrogen (TKN)	IL
Method EPA 353.2 Rev: 2	
Nitrate	IL
Nitrate-nitrite	IL
Nitrite as N	IL
Method EPA 365.4	
Phosphorus	IL
Method EPA 420.1	
Total phenolics	IL
Method EPA 608.3 GC-ECD	
4,4'-DDD	IL
4,4'-DDE	IL IL
4,4'-DDT	IL
Aldrin	IL
alpha-BHC (alpha-Hexachlorocyclohexane)	IL
Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL
beta-BHC (beta-Hexachlorocyclohexane)	IL
Chlordane (tech.)(N.O.S.)	IL
delta-BHC	IL
Dieldrin	IL
Endosulfan I	IL
Endosulfan II	IL
Endosulfan sulfate	IL
Endrin	IL
Endrin aldehyde	IL
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	IL
Heptachlor	IL
Heptachlor epoxide	IL
Methoxychlor	IL 
Toxaphene (Chlorinated camphene)	IL
Method EPA 624.1	
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL 
1,1-Dichloroethylene	IL 
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL 
1,2-Dichloroethane (Ethylene dichloride)	IL 
1,2-Dichloropropane	IL

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: CWA (Solid & Hazardous Material) 1,3-Dichlorobenzene IL 1,4-Dichlorobenzene IL 2-Chloroethyl vinyl ether IL Acetonitrile IL Acrolein (Propenal) IL IL Acrylonitrile Benzene IL Bromodichloromethane IL Bromoform IL Carbon tetrachloride IL Chlorobenzene IL Chlorodibromomethane IL Chloroethane (Ethyl chloride) IL Chloroform IL IL cis-1,3-Dichloropropene IL Ethylbenzene Methyl bromide (Bromomethane) IL Methyl chloride (Chloromethane) IL Methyl tert-butyl ether (MTBE) IL Methylene chloride (Dichloromethane) IL Tetrachloroethylene (Perchloroethylene) IL Toluene IL IL trans-1,2-Dichloroethylene trans-1,3-Dichloropropylene IL Trichloroethene (Trichloroethylene) IL Trichlorofluoromethane (Fluorotrichloromethane, Freon 11) IL Vinyl chloride IL Xylene (total) IL Method EPA 625.1 1,2,4-Trichlorobenzene IL 2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether IL 2,4,6-Trichlorophenol IL 2,4-Dichlorophenol IL 2,4-Dimethylphenol IL 2,4-Dinitrophenol IL 2,4-Dinitrotoluene (2,4-DNT) IL 2,6-Dinitrotoluene (2,6-DNT) IL 2-Chloronaphthalene IL 2-Chlorophenol IL 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) IL 2-Nitrophenol IL IL 3,3'-Dichlorobenzidine 4-Bromophenyl phenyl ether IL 4-Chloro-3-methylphenol IL 4-Nitrophenol IL Acenaphthene IL Acenaphthylene IL Anthracene IL Benzidine IL Benzo(a)anthracene IL IL Benzo(a)pyrene Benzo(b)fluoranthene IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: CWA (Solid & Hazardous Material)	
Benzo(g,h,i)perylene	IL
Benzo(k)fluoranthene	IL
bis(2-Chloroethoxy)methane	IL
bis(2-Chloroethyl) ether	IL
bis(2-Ethylhexyl) phthalate (DEHP)	IL
Butyl benzyl phthalate	IL
Carbazole	IL
Chrysene	IL
Dibenz(a,h) anthracene	IL
Diethyl phthalate	IL
Dimethyl phthalate	IL
Di-n-butyl phthalate	IL
Di-n-octyl phthalate	IL
Fluoranthene	IL
Fluorene	IL
Hexachlorobenzene	IL
Hexachlorobutadiene	IL
Hexachlorocyclopentadiene	IL 
Hexachloroethane	IL 
Indeno(1,2,3-cd) pyrene	IL 
Isophorone	IL 
Naphthalene	IL 
Nitrobenzene	IL 
n-Nitrosodimethylamine	IL 
n-Nitrosodi-n-propylamine	IL 
n-Nitrosodiphenylamine	IL 
Pentachlorophenol	IL 
Phenanthrene Phenol	IL
	IL 
Pyrene	IL
Pyridine	IL
Method SM 2340 B-1997	
Hardness	IL
Method SM 2540 C-1997	
Residue-filterable (TDS)	IL
Method SM 2540 F-1997	
Residue-settleable	IL
Method SM 4500-CI C-1997	
Chloride	IL
Method SM 4500-Cl C-2011	16
	11
Chloride	IL
Method SM 4500-CI E-2000	
Chloride	IL
Method SM 4500-NO2 B-2011	
Nitrite	IL
Method SM 4500-NO3 F-2000	
Nitrate plus Nitrite as N	IL
Method SM 4500-P E-1999	
Orthophosphate as P	IL
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Certificate No.: 1002262023-17 Primary AB

Field of Testing /Matrix: CWA (Solid & Hazardous Material)

Method SM 4500-SO3 B-2000

Sulfite-SO3

Certificate No.: 1002262023-17 Primary AB

Certificate No.: 1002262023-17	· · · · · · · · · · · · · · · · · · ·
Field of Testing /Matrix: RCRA (Non Potable Water)	
Method EPA 1010A	
Ignitability	IL
Method EPA 1020B	
Ignitability	IL
Method EPA 1311 Rev: 0	
Toxicity Characteristic Leaching Procedure (TCLP)	IL
Method EPA 1312 Rev: 0	
Synthetic Precipitation Leaching Procedure (SPLP)	IL
Method EPA 6010B Rev: 2	"L
Aluminum	IL
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	iL
Boron	IL
Cadmium	IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Iron	IL
Lead	IL 
Lithium	IL 
Magnesium	IL 
Manganese	IL IL
Molybdenum Nickel	IL IL
Phosphorus	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Strontium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL 
Zinc	IL
Method EPA 6020A Rev: 1	
Aluminum	IL
Antimony	IL 
Arsenic	IL 
Barium Bondlium	IL II
Beryllium Boron	IL IL
Boron Cadmium	IL IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
••	

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: RCRA (Non Potable Water) Iron IL Lead IL Magnesium IL Manganese IL Molybdenum IL Nickel IL Potassium IL Selenium IL Silver IL Sodium IL **Thallium** IL Vanadium IL IL Zinc Method EPA 7196A Rev: 1 Chromium VI IL Method EPA 7470A Rev: 1 Mercury IL Method EPA 8015B Rev: 2 IL Diesel range organics (DRO) Ethanol IL Ethylene glycol IL Isobutyl alcohol (2-Methyl-1-propanol) IL Isopropyl alcohol (2-Propanol, Isopropanol) IL IL Methanol n-Butyl alcohol (1-Butanol, n-Butanol) IL n-Propanol (1-Propanol) IL IL tert-Butyl alcohol Method EPA 8081B 4,4'-DDD IL 4,4'-DDE IL 4,4'-DDT IL Alachlor IL Aldrin IL IL alpha-BHC (alpha-Hexachlorocyclohexane) alpha-Chlordane, cis-Chlordane IL beta-BHC (beta-Hexachlorocyclohexane) IL Chlordane (tech.)(N.O.S.) IL delta-BHC IL Dieldrin IL Endosulfan I IL Endosulfan II IL Endosulfan sulfate IL **Endrin** IL Endrin aldehyde IL Endrin ketone IL gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) IL gamma-Chlordane IL Heptachlor IL Heptachlor epoxide IL Methoxychlor IL Toxaphene (Chlorinated camphene) IL

Field of Testing /Matrix: RCRA (Non Potable Water)	
Method EPA 8082 Rev: 0	
Aroclor-1016 (PCB-1016)	IL
Aroclor-1221 (PCB-1221)	IL
Aroclor-1232 (PCB-1232)	IL
Aroclor-1242 (PCB-1242)	IL
Aroclor-1248 (PCB-1248)	IL
Aroclor-1254 (PCB-1254)	IL
Aroclor-1260 (PCB-1260)	IL
Method EPA 8151A	
2,4,5-T	IL
2,4-D	IL
2,4-DB	IL
3,5-Dichlorobenzoic acid	IL
4-Nitrophenol	IL
Acifluorfen	IL
Bentazon	IL
Chloramben	IL
Dalapon	IL
DCPA di acid degradate	IL
Dicamba	IL
Dichloroprop (Dichlorprop)	IL
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	IL
MCPA	IL IL
MCPP	IL "
Pentachlorophenol	IL "
Picloram	IL 
Silvex (2,4,5-TP)	IL
Method EPA 8260B	
1,1,1,2-Tetrachloroethane	IL
1,1,1-Trichloroethane	IL
1,1,2,2-Tetrachloroethane	IL
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	IL
1,1,2-Trichloroethane	IL
1,1-Dichloroethane	IL
1,1-Dichloroethylene	IL
1,1-Dichloropropene	IL
1,2,3-Trichlorobenzene	IL
1,2,3-Trichloropropane	IL
1,2,4-Trichlorobenzene	IL
1,2,4-Trimethylbenzene	IL
1,2-Dibromo-3-chloropropane (DBCP)	IL
1,2-Dibromoethane (EDB, Ethylene dibromide)	IL
1,2-Dichlorobenzene (o-Dichlorobenzene)	IL
1,2-Dichloroethane (Ethylene dichloride)	IL
1,2-Dichloropropane	IL
1,3,5-Trimethylbenzene	IL
1,3-Dichlorobenzene	IL
1,3-Dichloropropane	IL
1,4-Dichlorobenzene	IL
1-Chlorobutane	IL
2,2-Dichloropropane	IL

ld of Testing /Matrix: RCRA (Non Potable Water)	
2-Butanone (Methyl ethyl ketone, MEK)	IL
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	iL
2-Hexanone	iL
2-Nitropropane	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Acrylonitrile	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	ïL
Bromodichloromethane	ĪL
Bromoform	iL
Carbon disulfide	IL
Carbon tetrachloride	IL
Chlorobenzene	IL
Chlorodibromomethane	IL.
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	iL
cis-1,4-Dichloro-2-butene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Di-isopropylether (DIPE) (Isopropyl Ether)	IL
Ethyl acetate	IL
Ethyl methacrylate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Hexachloroethane	IL
Iodomethane (Methyl iodide)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl acrylate	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	IL
Naphthalene	IL
n-Butylbenzene	IL
Nitrobenzene	IL
n-Propylbenzene	iL

Certificate No.: 1002262023-17 Primary AB

Certificate 140 1002202011	
Field of Testing /Matrix: RCRA (Non Potable Water)	
o-Xylene	IL
Pentachloroethane	IL
Propionitrile (Ethyl cyanide)	IL
p-Xylene	IL
sec-Butylbenzene	IL
Styrene	IL
tert-Butyl alcohol	IL
tert-Butylbenzene	IL
Tetrachloroethylene (Perchloroethylene)	IL
Tetrahydrofuran (THF)	IL
Toluene	IL
trans-1,2-Dichloroethylene	IL
trans-1,3-Dichloropropylene	IL
	IL
Trichloroethene (Trichloroethylene)	IL
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	IL
	IL
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·	IL
Method EPA 8270C Rev: 3	
	IL
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4-Chloroaniline	IL

**Primary AB** Certificate No.: 1002262023-17 RCRA (Non Potable Water) Field of Testing /Matrix: 4-Chlorophenyl phenylether IL 4-Dimethyl aminoazobenzene IL 4-Methylphenol (p-Cresol) IL 4-Nitroaniline IL 4-Nitrophenol IL 5-Nitro-o-toluidine IL IL 7,12-Dimethylbenz(a) anthracene IL Acenaphthene Acenaphthylene IL IL Acetophenone Aniline IL Anthracene IL Benzidine IL Benzo(a)anthracene IL IL Benzo(a)pyrene Benzo(b)fluoranthene IL IL Benzo(g,h,i)perylene Benzo(k)fluoranthene IL Benzoic acid IL Benzyl alcohol IL bis(2-Chloroethoxy)methane IL bis(2-Chloroethyl) ether IL bis(2-Ethylhexyl) phthalate (DEHP) IL Butyl benzyl phthalate IL Carbazole IL Chlorobenzilate IL Chrysene IL IL Diallate Dibenz(a,h) anthracene IL Dibenzofuran IL Diethyl phthalate IL IL Dimethoate IL Dimethyl phthalate Di-n-butyl phthalate IL Di-n-octyl phthalate IL Diphenylamine IL Ethyl methanesulfonate IL **Famphur** IL Fluoranthene IL Fluorene IL Hexachlorobenzene IL Hexachlorobutadiene IL Hexachlorocyclopentadiene IL Hexachloroethane IL Hexachloropropene IL Indeno(1,2,3-cd) pyrene IL Isodrin IL Isophorone IL Isosafrole IL Methyl methanesulfonate IL Naphthalene IL

Nitrobenzene

IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: RCRA (Non Potable Water)	
n-Nitrosodiethylamine	IL
n-Nitrosodimethylamine	IL
n-Nitroso-di-n-butylamine	IL
n-Nitrosodi-n-propylamine	IL
n-Nitrosodiphenylamine	IL
n-Nitrosomethylethylamine	IL
n-Nitrosopiperidine	IL
n-Nitrosopyrrolidine	IL
o,o,o-Triethyl phosphorothioate	IL
Parathion	IL
Pentachlorobenzene	IL
Pentachloronitrobenzene	IL
Pentachlorophenol	IL
Phenanthrene	IL
Phenol	IL
Pronamide (Kerb)	IL
Pyrene	IL
Pyridine	IL
Safrole	IL
Method EPA 8270C Mod LVI	
Acetochlor	IL
Alachlor	IL
Atrazine	IL
Butylate	IL
Cyanazine	IL
EPTC (Eptam, s-ethyl-dipropyl thio carbamate)	IL
Metolachlor	IL 
Metribuzin	IL 
Pendimethalin (Penoxalin)	IL 
Simazine	IL 
Trifluralin (Treflan)	IL
Method EPA 9012A Rev: 1	
Cyanide	IL
Method EPA 9014 Rev: 0	
Cyanide	IL
Method EPA 9020B Rev: 2	
Total organic halides (TOX)	IL
Method EPA 9023 Rev: 0	· <del>-</del>
Extractable organics halides (EOX)	IL
	IL
Method EPA 9036 Rev: 0	
Sulfate	IL
Method EPA 9040B Rev: 2	
pH	IL
Method EPA 9050A Rev: 1	
Conductivity	IL
Method EPA 9060A	
Total organic carbon	IL
Method EPA 9065 Rev: 0	. <u>-</u>
	IL
Total phenolics	IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: RCRA (Non Potable Water)	
Method EPA 9066 Rev: 0 Total phenolics	IL
Method EPA 9095A Paint Filter Test	IL
Method EPA 9214 Rev: 0 Fluoride	IL
Method EPA 9251 Rev: 0 Chloride	IL

Certificate No.: 1002262023-17

Certificate No.: 1002262023-17	
Field of Testing /Matrix: RCRA (Solid & Hazardous Material)	
Method EPA 1010A	
Ignitability	IL
Method EPA 1020B	
Ignitability	IL
Method EPA 1311 Rev: 0	
Toxicity Characteristic Leaching Procedure (TCLP)	IL
Method EPA 1312 Rev: 0	12
Synthetic Precipitation Leaching Procedure (SPLP)	IL
	IL
Method EPA 6010B Rev: 2  Aluminum	IL
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	IL
Boron	IL
Cadmium	IL
Calcium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Iron	IL
Lead	IL 
Lithium	IL 
Magnesium	IL "
Manganese	IL IL
Molybdenum Nickel	IL
Phosphorus	IL
Potassium	IL
Selenium	IL
Silver	IL
Sodium	IL
Strontium	IL
Thallium	IL
Tin	IL
Titanium	IL
Vanadium	IL 
Zinc	IL
Method EPA 6020A Rev: 1	
Aluminum	IL
Antimony	IL 
Arsenic	IL "
Barium Barilium	IL IL
Beryllium Boron	IL IL
Cadmium	IL
Chromium	IL
Cobalt	IL
Copper	IL
Iron	IL

**Primary AB** Certificate No.: 1002262023-17 RCRA (Solid & Hazardous Material) Field of Testing /Matrix: Lead IL Magnesium IL IL Manganese Molybdenum IL Nickel IL IL Potassium Selenium IL Silver IL Sodium IL **Thallium** IL Vanadium IL Zinc IL Method EPA 7196A Rev: 1 IL Chromium VI Method EPA 7471B Mercury IL Method EPA 8015B Rev: 2 Diesel range organics (DRO) IL IL Ethanol Ethylene glycol IL Isobutyl alcohol (2-Methyl-1-propanol) IL Isopropyl alcohol (2-Propanol, Isopropanol) IL Methanol IL IL n-Butyl alcohol (1-Butanol, n-Butanol) n-Propanol (1-Propanol) IL tert-Butyl alcohol IL Method EPA 8081B 4,4'-DDD IL 4,4'-DDE IL 4,4'-DDT IL Alachlor IL Aldrin IL alpha-BHC (alpha-Hexachlorocyclohexane) IL alpha-Chlordane, cis-Chlordane IL beta-BHC (beta-Hexachlorocyclohexane) IL Chlordane (tech.)(N.O.S.) IL delta-BHC IL Dieldrin IL Endosulfan I IL Endosulfan II IL Endosulfan sulfate IL Endrin IL IL Endrin aldehyde IL Endrin ketone gamma-BHC (Lindane, gamma-Hexachlorocyclohexane) IL gamma-Chlordane IL Heptachlor IL Heptachlor epoxide IL IL Methoxychlor Toxaphene (Chlorinated camphene) IL

**Primary AB** Certificate No.: 1002262023-17 RCRA (Solid & Hazardous Material) Field of Testing /Matrix: Aroclor-1016 (PCB-1016) IL Aroclor-1221 (PCB-1221) IL Aroclor-1232 (PCB-1232) IL Aroclor-1242 (PCB-1242) IL Aroclor-1248 (PCB-1248) IL Aroclor-1254 (PCB-1254) IL Aroclor-1260 (PCB-1260) IL Method EPA 8151A 2.4.5-T IL 2,4-D IL 2,4-DB IL 3,5-Dichlorobenzoic acid IL IL 4-Nitrophenol IL Acifluorfen IL Bentazon Chloramben IL Dalapon IL DCPA di acid degradate IL Dicamba IL Dichloroprop (Dichlorprop) IL Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP) IL **MCPA** IL **MCPP** IL IL Pentachlorophenol Picloram IL Silvex (2,4,5-TP) IL Method EPA 8260B 1,1,1,2-Tetrachloroethane IL IL 1,1,1-Trichloroethane IL 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) IL 1,1,2-Trichloroethane IL 1,1-Dichloroethane IL 1,1-Dichloroethylene IL 1,1-Dichloropropene IL IL 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane IL 1,2,4-Trichlorobenzene IL IL 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane (DBCP) IL 1,2-Dibromoethane (EDB, Ethylene dibromide) IL 1,2-Dichlorobenzene (o-Dichlorobenzene) IL 1,2-Dichloroethane (Ethylene dichloride) IL 1,2-Dichloropropane IL 1,3,5-Trimethylbenzene IL IL 1,3-Dichlorobenzene 1,3-Dichloropropane IL 1,4-Dichlorobenzene IL 1-Chlorobutane IL 2,2-Dichloropropane IL 2-Butanone (Methyl ethyl ketone, MEK) IL

Certificate No.: 1002262023-17 Primary AB

ld of Testing /Matrix: RCRA (Solid & Hazardous Material)	
2-Chloroethyl vinyl ether	IL
2-Chlorotoluene	IL
2-Hexanone	iL
2-Nitropropane	IL
4-Chlorotoluene	IL
4-Isopropyltoluene (p-Cymene,p-Isopropyltoluene)	IL
4-Methyl-2-pentanone (MIBK)	IL
Acetone	IL
Acetonitrile	IL
Acrolein (Propenal)	IL
Allyl chloride (3-Chloropropene)	IL
Benzene	IL
Bromobenzene	IL
Bromochloromethane	L
Bromodichloromethane	L "
Bromoform	IL 
Carbon disulfide	IL
Carbon tetrachloride	IL 
Chlorobenzene	IL 
Chlorodibromomethane	IL
Chloroethane (Ethyl chloride)	IL
Chloroform	IL
Chloroprene (2-Chloro-1,3-butadiene)	IL
cis-1,2-Dichloroethylene	IL
cis-1,3-Dichloropropene	IL
cis-1,4-Dichloro-2-butene	IL
Dibromomethane (Methylene bromide)	IL
Dichlorodifluoromethane (Freon-12)	IL
Diethyl ether	IL
Di-isopropylether (DIPE) (Isopropyl Ether)	IL
Ethyl acetate	IL
Ethyl methacrylate	IL
Ethylbenzene	IL
Hexachlorobutadiene	IL
Hexachloroethane	IL
lodomethane (Methyl iodide)	IL
Isopropylbenzene	IL
m+p-xylene	IL
Methacrylonitrile	IL
Methyl acrylate	IL
Methyl bromide (Bromomethane)	IL
Methyl chloride (Chloromethane)	IL
Methyl methacrylate	IL
Methyl tert-butyl ether (MTBE)	IL
Methylene chloride (Dichloromethane)	IL
m-Xylene	iL
Naphthalene	IL
n-Butylbenzene	IL
Nitrobenzene	IL
n-Propylbenzene	IL
o-Xylene	IL
Pentachloroethane	IL IL

**Primary AB** Certificate No.: 1002262023-17 RCRA (Solid & Hazardous Material) Field of Testing /Matrix: Propionitrile (Ethyl cyanide) IL p-Xylene IL sec-Butylbenzene IL Styrene IL tert-Butyl alcohol IL tert-Butylbenzene IL IL Tetrachloroethylene (Perchloroethylene) IL Tetrahydrofuran (THF) Toluene IL trans-1,2-Dichloroethylene IL trans-1,3-Dichloropropylene IL trans-1,4-Dichloro-2-butene IL Trichloroethene (Trichloroethylene) IL Trichlorofluoromethane (Fluorotrichloromethane, Freon 11) IL Vinyl acetate IL Vinyl chloride IL IL Xylene (total) Method EPA 8270C Rev: 3 1,2,4-Trichlorobenzene IL 1,2-Dichlorobenzene (o-Dichlorobenzene) IL 1,3-Dichlorobenzene IL 1,4-Dichlorobenzene IL IL 1,4-Dioxane (1,4- Diethyleneoxide) 2,2'-Oxybis(1-chloropropane), bis(2-Chloro-1-methylethyl)ether IL 2,4,5-Trichlorophenol IL 2,4,6-Trichlorophenol IL 2,4-Dichlorophenol IL 2,4-Dimethylphenol IL 2,4-Dinitrophenol IL 2,4-Dinitrotoluene (2,4-DNT) IL 2,6-Dinitrotoluene (2,6-DNT) IL 2-Chloronaphthalene IL 2-Chlorophenol IL 2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol) IL IL 2-Methylaniline (o-Toluidine) 2-Methylnaphthalene IL 2-Methylphenol (o-Cresol) IL 2-Nitroaniline IL 2-Nitrophenol IL 3,3'-Dichlorobenzidine IL 3-Methylphenol (m-Cresol) IL IL 3-Nitroaniline IL 4-Bromophenyl phenyl ether 4-Chloro-3-methylphenol IL 4-Chloroaniline IL 4-Chlorophenyl phenylether IL 4-Methylphenol (p-Cresol) IL4-Nitroaniline IL 4-Nitrophenol IL Acenaphthene IL

Acenaphthylene

Aniline

IL

IL

**Primary AB** Certificate No.: 1002262023-17 Field of Testing /Matrix: RCRA (Solid & Hazardous Material) Anthracene IL Benzo(a)anthracene IL Benzo(a)pyrene IL Benzo(b)fluoranthene IL Benzo(g,h,i)perylene IL Benzo(k)fluoranthene IL IL Benzoic acid IL Benzyl alcohol bis(2-Chloroethoxy)methane IL bis(2-Chloroethyl) ether IL bis(2-Ethylhexyl) phthalate (DEHP) IL Butyl benzyl phthalate IL Carbazole IL Chrysene IL IL Dibenz(a,h) anthracene Dibenzofuran IL IL Diethyl phthalate Dimethyl phthalate IL Di-n-butyl phthalate IL Di-n-octyl phthalate IL Fluoranthene IL Fluorene IL Hexachlorobenzene IL Hexachlorobutadiene IL Hexachlorocyclopentadiene IL Hexachloroethane IL Indeno(1,2,3-cd) pyrene IL Isophorone IL Naphthalene IL Nitrobenzene IL n-Nitrosodiethylamine IL n-Nitrosodimethylamine IL n-Nitrosodi-n-propylamine IL n-Nitrosodiphenylamine IL IL n-Nitrosomethylethylamine Pentachlorobenzene IL Pentachlorophenol IL Phenanthrene IL Phenol IL Pyrene IL **Pyridine** IL Method EPA 8270C Mod LVI Acetochlor IL Alachlor IL **Atrazine** IL Butylate IL Cyanazine IL EPTC (Eptam, s-ethyl-dipropyl thio carbamate) IL Metolachlor IL Metribuzin IL IL Pendimethalin (Penoxalin)

Simazine

IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: RCRA (Solid & Hazardous Material)	
Trifluralin (Treflan)	IL
Method EPA 9012A Rev: 1	
Cyanide	IL
Method EPA 9014 Rev: 0	
Cyanide	IL
Method EPA 9020B Rev: 2	
Total organic halides (TOX)	IL
Method EPA 9023 Rev: 0	
Extractable organics halides (EOX)	IL
Method EPA 9034 Rev: 0	
Sulfide	IL
Method EPA 9036 Rev: 0	
Sulfate	IL
Method EPA 9045C Rev: 3	
pH	IL
Method EPA 9060A	
Total organic carbon	IL
Method EPA 9065 Rev: 0	
Total phenolics	IL
Method EPA 9214 Rev: 0	
Fluoride	IL

Field of Testing /Matrix: SDWA (Potable Water)	
Method EPA 180.1 Rev: 2	
Turbidity	IL
Method EPA 200.7 Rev: 4.4	
Aluminum	IL
Barium	IL
Beryllium	IL
Boron	IL
Cadmium	IL
Calcium	IL
Chromium	IL
Copper	IL
Iron	IL
Magnesium	IL
Manganese	IL
Molybdenum	IL
Nickel	IL
Potassium	IL
Silver	IL
Sodium	IL
Vanadium	IL
Zinc	IL
Method EPA 200.8 Rev: 5.4	
Antimony	IL
Arsenic	IL
Barium	IL
Beryllium	IL
Cadmium	IL
Chromium	IL
Copper	IL
Lead	IL
Manganese	IL 
Molybdenum	IL 
Nickel	IL 
Selenium	IL "
Silver	IL "
Thallium	IL "
Zinc	IL
Method EPA 245.1 Rev: 3	
Mercury	IL
Method EPA 335.4 Rev: 1	
Cyanide	IL
Method EPA 353.2 Rev: 2	
Nitrate	IL
Nitrate-nitrite	IL
Method SM 2130 B Rev: 20th ED	
Turbidity	IL
Method SM 2320 B Rev: 23rd ED	-
Alkalinity as CaCO3	IL
	IL
Method SM 2340 B Rev: 23rd ED	11
Hardness	IL

Certificate No.: 1002262023-17	Primary AB
Field of Testing /Matrix: SDWA (Potable Water)	
Method SM 2510 B Rev: 21st ED  Conductivity	IL
Method SM 2540 C Rev: 23rd ED  Total dissolved solids	IL
Method SM 4500-CI G Rev: 20th ED  Total chlorine	IL
Method SM 4500-F C Rev: 23rd ED Fluoride	IL
Method SM 4500-H+ B Rev: 21st ED pH	IL
Method SM 4500-NO2 B Rev: 23rd ED  Nitrite	IL
Method SM 4500-P E Rev: 23rd ED Orthophosphate as P	IL
Method SM 4500-SiO2 D Rev: 23rd ED Silica as SiO2	IL
Method SM 5310 C Rev: 21st ED  Dissolved organic carbon (DOC)  Total organic carbon	IL IL
End of Scope of Accreditation	

## 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, IL 62234

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.

### **INORGANIC**

EPA 335.4 Total Cyanide

**EPA 353.2**Nitrate, Nitrite, Total Nitrate and Nitrite

EPA 245.1 Mercury

EPA 200.7

Barium, Beryllium, Cadmium, Chromium, Copper, Nickel

**EPA 200.8** 

Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Thallium

SM4500F-C Fluoride

SM4500NO2-B Nitrite

Teklab, Incorporated

**Expiration Date: January 31, 2025** 

Missouri Certificate No.: 930 Original Certifying State: Illinois