
May 8, 2024

Mr. Kevin Piel
Fox C-6 School District
745 Jeffco Boulevard
Arnold, MO 63010

RE: Drinking Water Sampling – Lone Dale Elementary School
2500 Tomahawk Arnold, MO 63010
Project Number: 923294

Mr. Kevin Piel,

OCCU-TEC, Inc. (OCCU-TEC) is pleased to present the following report for drinking water sampling completed at Lone Dale Elementary in Arnold, Missouri. The sampling was requested and approved by Mr. Kevin Piel of Fox School District (FSD). OCCU-TEC completed drinking water sampling of all potential drinking water sources, sources used in food preparation, cleaning, and utensil cleaning. Drinking water sampling was completed in accordance with the requirements set forth in Missouri Senate Bill #681/662 known as the “Get the Lead Out of School Drinking Water Act”.

METHODOLOGY

On March 27, 2024, Mr. Justin Arnold of OCCU-TEC completed testing of forty-three (43) sources throughout Lone Dale Elementary. Samples were collected as ‘First Draw’ samples after the fixtures had remained unused for a minimum period of 8 hours. Samples were collected in dedicated 250 milliliter laboratory-provided plastic sample containers. Sample location information and photographic documentation are noted in the attached table.

Samples were shipped to Teklab, Inc. (Teklab) of Collinsville, Illinois for analysis using EPA method 200.8. Teklab is approved for sample analysis by the Missouri Department of Natural Resources (MDNR) under certification number 00930. A copy of the laboratory analytical results and Chain of Custody documentation are attached to this report.

RESULTS

Samples results were compared to the regulatory limit of 5 parts per billion (ppb) outlined in Missouri Senate Bill 681/662. Of the samples collected, three (3) of the forty-three (43) contained lead concentrations at or above 5 ppb. Below is a list of samples containing elevated concentrations of lead.

Sample ID	Location	Type	Result (ug/L)
294-LDE-15	Kitchen	3 Stage Sink	12.9
294-LDE-16	Kitchen	3 Stage Sink	14.7
294-LDE-17	Kitchen	Pot Filler	6.7

LIMITATIONS

At the request of FSD, custodial closet sinks were excluded from sampling. In accordance with the requirements set forth in Missouri Bill 681/662, all sources not sampled during this assessment should be labeled to indicate that the source is not to be used for drinking water.

RECOMMENDATIONS

The following recommendations are in accordance with Senate Bill 681/662:

In accordance with the requirements set forth in Missouri Bill 681/662, fixtures exhibiting lead concentrations above 5 ppb must be remediated by replacement of lead-containing pipes, solder, fittings or fixtures with lead-free components, or the school shall install filtration at each point where water enters the building until such time as the source can be remediated. If installing a filter is not feasible, the school shall provide purified water at each outlet inventoried.

Additionally, any water coolers or drinking water outlets identified by the United States Environmental Protection Agency (EPA) as not being lead-free under the federal Lead Contamination Control Act of 1988 shall be replaced unless the unit has been tested and determined to have lead results under 5 ppb.

Within two weeks after receiving test results, the school shall make all testing results and any lead remediation plans available on the school's website. The school shall notify parents and staff via written notification within seven (7) business days after receiving test results exceeding 5 ppb. The notification shall include the following:

- Test results and a summary explaining the results.
- A description of any remedial steps taken.
- A description of the general health effects of lead contamination and community specific resources.

- Provide bottled water if there is not enough water to meet the drinking water needs of the students, teachers, and staff.

For fixtures exhibiting results above 5 ppb, follow up random “Flush” sampling shall be conducted annually on at least 25 percent of the remediated outlets until all outlets have been remediated. Drinking water sampling shall be conducted annually and annual drinking water test results shall be submitted by the district to the Department of Health and Senior Services (MDHSS).

SIGNATURE(S)

OCCU-TEC appreciates the opportunity to provide the above-referenced consulting services to FSD. If you have any questions regarding the contents of this report, please contact us at (816) 231-5580.

Respectfully,



Kevin Heriford
Director EH&S Dept.





Brittany Dickmeyer
Safety Specialist


ATTACHMENTS

Outlet Inventory with Analytical Results Summary
Laboratory Analytical Results and COC Documentation


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-01	Location:	A1 Hall Men's Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Handwashing Left Side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


ID:	294-LDE-02	Location:	A1 Hall Men's Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Handwashing Right Side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-03	Location:	Hall Near A1	
Photo:		Manufacturer:	Oasis	
		Description:		
		Drinking Fountain Bottle Filler left side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District

ID:	294-LDE-04	Location:	Hall Near A1		
Photo:		Manufacturer:	Oasis		
		Description:			
		Drinking Fountain Bottle Filler right side			
		Result:	<1.0	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					


ID:	294-LDE-05	Location:	A1 Hall Women's Restroom		
Photo:		Manufacturer:	Chicago Faucet Company		
		Description:			
		Handwashing Left Side			
		Result:	<1.0	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					

ID:	294-LDE-06	Location:	A1 Hall Women's Restroom		
Photo:		Manufacturer:	Chicago Faucet Company		
		Description:			
		Handwashing Right Side			
		Result:	<1.0	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-07	Location:	Cafeteria	
Photo:		Manufacturer:	Scotsman	
		Description:		
		Ice Machine		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


ID:	294-LDE-08	Location:	Cafeteria	
Photo:		Manufacturer:	Unknown	
		Description:		
		Sink		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-09	Location:	Cafeteria	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain bottle Filler		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-10	Location:	Cafeteria	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain bubbler - Right		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


ID:	294-LDE-11	Location:	Kitchen	
Photo:		Manufacturer:	Fisher	
		Description:		
		Dish Sprayer		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-12	Location:	Kitchen	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Handwashing Sink Left Side		
		Result:	1.3	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District

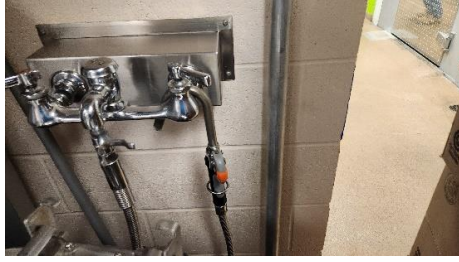
ID:	294-LDE-13	Location:	Kitchen		
Photo:		Manufacturer:	Chicago Faucet Company		
		Description:			
		Island Sink Freezer Side			
		Result:	1	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					


ID:	294-LDE-14	Location:	Kitchen		
Photo:		Manufacturer:	Chicago Faucet Company		
		Description:			
		Island Sink Stove Side			
		Result:	1.4	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					

ID:	294-LDE-15	Location:	Kitchen		
Photo:		Manufacturer:	Chicago Faucet Company		
		Description:			
		3 Stage Sink Left Side			
		Result:	12.9	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:		Replace Source/Unit - Resample			

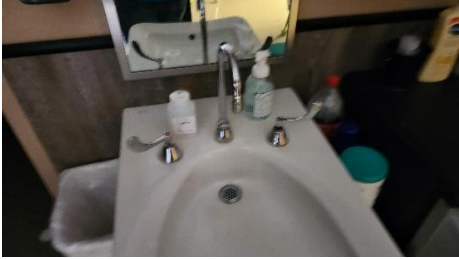
Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District

ID:	294-LDE-16	Location:	Kitchen	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		3 Stage Sink Right Side		
		Result:	14.7	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:		Install End of line Filter and Resample		


ID:	294-LDE-17	Location:	Kitchen	
Photo:		Manufacturer:	T&S Brass Co.	
		Description:		
		Pot Filler		
		Result:	6.7	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:		Replace Fixture/Unit and Resample		

ID:	294-LDE-18	Location:	Kitchen	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Handwashing Sink Right Side		
		Result:	1.1	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-19	Location:	Front Office Nurse	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Sink		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


ID:	294-LDE-20	Location:	Front Office	
Photo:		Manufacturer:	American Standard	
		Description:		
		Handwashing Sink		
		Result:	2.1	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-21	Location:	B1 Hall Men's Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Sink Left Side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-22	Location:	B1 Hall Men's Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Sink Right Side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


ID:	294-LDE-23	Location:	B1 Hall	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain Bottle Filler Left Side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-24	Location:	B1 Hall	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain Bubbler Left Side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-25	Location:	B1 Hall Women's Restroom		
Photo:		Manufacturer:	Chicago Faucet Company		
		Description:			
		Sink Left Side			
		Result:	<1.0	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					


ID:	294-LDE-26	Location:	B1 Hall Women's Restroom		
Photo:		Manufacturer:	Chicago Faucet Company		
		Description:			
		Sink Right Side			
		Result:	<1.0	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					

ID:	294-LDE-27	Location:	Room B 2		
Photo:		Manufacturer:	Unknown		
		Description:			
		Sink			
		Result:	3.6	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-28	Location:	Room 10		
Photo:		Manufacturer:	Unknown		
		Description:			
		Handwashing Sink			
		Result:	2.1	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					


ID:	294-LDE-29	Location:	C1 Hall Boys Restroom		
Photo:		Manufacturer:	Chicago Faucet Company		
		Description:			
		Sink Left Side			
		Result:	<1.0	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					

ID:	294-LDE-30	Location:	C1 Hall Boys Restroom		
Photo:		Manufacturer:	Chicago Faucet Company		
		Description:			
		Sink Right Side			
		Result:	<1.0	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-31	Location:	C 1 Hall	
Photo:		Manufacturer:	Oasis	
		Description:		
		Drinking Fountain Bottle Filler - Left		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-32	Location:	C 1 Hall	
Photo:		Manufacturer:	Oasis	
		Description:		
		Drinking Fountain Bottle Filler - Right		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-33	Location:	C1 Hall Girls Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Sink Left Side		
		Result:	1.1	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-34	Location:	C1 Hall Girls Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Sink Right Side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


ID:	294-LDE-35	Location:	C9	
Photo:		Manufacturer:	Pfister	
		Description:		
		Sink		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-36	Location:	W2 Office Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Handwashing Sink		
		Result:	1.2	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District


ID:	294-LDE-37	Location:	D Wing Women's Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Handwashing Sink Left		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

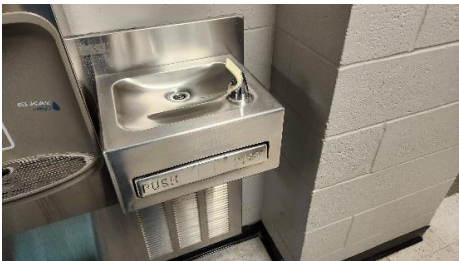
ID:	294-LDE-38	Location:	D Wing Women's Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Handwashing Sink Right		
		Result:	1	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-39	Location:	D Wing Boys Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Handwashing Sink Left		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				


Drinking Water Assessment
Lone Dale Elementary School
Fox C-6 School District

ID:	294-LDE-40	Location:	D Wing Boys Restroom	
Photo:		Manufacturer:	Chicago Faucet Company	
		Description:		
		Handwashing Sink Right		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-41	Location:	D Wing Hall	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain Bottle Filler Left Side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

ID:	294-LDE-42	Location:	D Wing Hall	
Photo:		Manufacturer:	Elkay	
		Description:		
		Drinking Fountain bubbler Right Side		
		Result:	<1.0	ppb
		Date Sampled:	3/27/2024	By: JEA
Recommended Action:				

Drinking Water Assessment
 Lone Dale Elementary School
 Fox C-6 School District

ID:	294-LDE-43	Location:	Room 12		
Photo:		Manufacturer:	Unknown		
		Description:			
		Sink			
		Result:	<1.0	ppb	
		Date Sampled:	3/27/2024	By:	JEA
Recommended Action:					

April 25, 2024

Justin Arnold
Occu-Tec
2604 NE Industrial Drive
Suite 230
North Kansas City, MO 64117
TEL: (816) 810-3276
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: 923294 LDE

WorkOrder: 24032134

Dear Justin Arnold:

TEKLAB, INC received 43 samples on 3/27/2024 9:00:00 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,



Patrick Riley
Project Manager
(618)344-1004 ex 44
patrickriley@teklabinc.com

Client: Occu-Tec

Work Order: 24032134

Client Project: 923294 LDE

Report Date: 25-Apr-24

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	8
Chain of Custody	Appended

Client: Occu-Tec**Work Order:** 24032134**Client Project:** 923294 LDE**Report Date:** 25-Apr-24**Abbr Definition**

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

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

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

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

DNI Did not ignite

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

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

IDPH IL Dept. of Public Health

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

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

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

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

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

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

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

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

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

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

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

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

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

TNTC Too numerous to count (> 200 CFU)

Client: Occu-Tec

Work Order: 24032134

Client Project: 923294 LDE

Report Date: 25-Apr-24

Qualifiers

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



Case Narrative

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

Client: Occu-Tec

Work Order: 24032134

Client Project: 923294 LDE

Report Date: 25-Apr-24

Cooler Receipt Temp: N/A °C

Locations

Collinsville

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

Collinsville Air

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

Springfield

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

Chicago

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

Kansas City

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

Client: Occu-Tec**Work Order:** 24032134**Client Project:** 923294 LDE**Report Date:** 25-Apr-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	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		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: Occu-Tec

Work Order: 24032134

Client Project: 923294 LDE

Report Date: 25-Apr-24

Matrix: DRINKING WATER

Sample ID	Client Sample ID	Certification	Qual	RL	Result	Units	DF	Date Analyzed	Date Collected
EPA 600 4.1.4, 200.8 R5.4, METALS BY ICPMS (TOTAL)									
Lead									
24032134-001A	293-LDE-01	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 17:48	03/26/2024 13:33
24032134-002A	293-LDE-02	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 17:51	03/26/2024 13:34
24032134-003A	293-LDE-03	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 17:55	03/26/2024 13:35
24032134-004A	293-LDE-04	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 17:59	03/26/2024 13:36
24032134-005A	293-LDE-05	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 18:02	03/26/2024 13:37
24032134-006A	293-LDE-06	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 18:24	03/26/2024 13:37
24032134-007A	293-LDE-07	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 18:28	03/26/2024 13:40
24032134-008A	293-LDE-08	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 18:32	03/26/2024 13:44
24032134-009A	293-LDE-09	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 18:35	03/26/2024 13:46
24032134-010A	293-LDE-10	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 18:39	03/26/2024 13:48
24032134-011A	293-LDE-11	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 18:43	03/26/2024 13:54
24032134-012A	293-LDE-12	NELAP		1.0	1.3	µg/L	1	04/23/2024 18:46	03/26/2024 13:55
24032134-013A	293-LDE-13	NELAP		1.0	1.0	µg/L	1	04/23/2024 18:50	03/26/2024 13:56
24032134-014A	293-LDE-14	NELAP		1.0	1.4	µg/L	1	04/23/2024 11:55	03/26/2024 13:57
24032134-015A	293-LDE-15	NELAP		1.0	12.9	µg/L	1	04/23/2024 12:07	03/26/2024 13:59
24032134-016A	293-LDE-16	NELAP		1.0	14.7	µg/L	5	04/24/2024 12:07	03/26/2024 14:00
24032134-017A	293-LDE-17	NELAP		1.0	6.7	µg/L	1	04/23/2024 12:10	03/26/2024 14:01
24032134-018A	293-LDE-18	NELAP		1.0	1.1	µg/L	1	04/23/2024 12:14	03/26/2024 14:02
24032134-019A	293-LDE-19	NELAP		1.0	< 1.0	µg/L	5	04/24/2024 12:11	03/26/2024 14:04
24032134-020A	293-LDE-20	NELAP		1.0	2.1	µg/L	5	04/24/2024 13:02	03/26/2024 14:06
24032134-021A	293-LDE-21	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 12:18	03/26/2024 14:08
24032134-022A	293-LDE-22	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 12:21	03/26/2024 14:09
24032134-023A	293-LDE-23	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 12:25	03/26/2024 14:10
24032134-024A	293-LDE-24	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 12:29	03/26/2024 14:11
24032134-025A	293-LDE-25	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 12:43	03/26/2024 14:12
24032134-026A	293-LDE-26	NELAP		1.0	< 1.0	µg/L	5	04/24/2024 15:31	03/26/2024 14:13
24032134-027A	293-LDE-27	NELAP		1.0	3.6	µg/L	1	04/23/2024 12:47	03/26/2024 14:15
24032134-028A	293-LDE-28	NELAP		1.0	2.1	µg/L	1	04/23/2024 13:31	03/26/2024 14:16
24032134-029A	293-LDE-29	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 13:35	03/26/2024 14:18
24032134-030A	293-LDE-30	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 13:46	03/26/2024 14:19
24032134-031A	293-LDE-31	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 13:49	03/26/2024 14:20
24032134-032A	293-LDE-32	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 13:53	03/26/2024 14:21
24032134-033A	293-LDE-33	NELAP		1.0	1.1	µg/L	1	04/23/2024 13:57	03/26/2024 14:22
24032134-034A	293-LDE-34	NELAP		1.0	< 1.0	µg/L	5	04/24/2024 13:08	03/26/2024 14:23
24032134-035A	293-LDE-35	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 14:00	03/26/2024 14:25
24032134-036A	293-LDE-36	NELAP		1.0	1.2	µg/L	1	04/23/2024 14:04	03/26/2024 14:27
24032134-037A	293-LDE-37	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 14:19	03/26/2024 14:29
24032134-038A	293-LDE-38	NELAP		1.0	1.0	µg/L	5	04/24/2024 13:12	03/26/2024 14:30
24032134-039A	293-LDE-39	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 14:22	03/26/2024 14:31
24032134-040A	293-LDE-40	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 14:26	03/26/2024 14:32
24032134-041A	293-LDE-41	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 14:30	03/26/2024 14:34
24032134-042A	293-LDE-42	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 14:33	03/26/2024 14:35
24032134-043A	293-LDE-43	NELAP		1.0	< 1.0	µg/L	1	04/23/2024 14:37	03/26/2024 14:36

Client: Occu-Tec

Work Order: 24032134

Client Project: 923294 LDE

Report Date: 25-Apr-24

Carrier: Craig McKinney

Received By: WAO

Completed by:

On:

28-Mar-24

Amber Dilallo

Reviewed by:

On:

28-Mar-24

Ellie Hopkins

Pages to follow:

Chain of custody

4

Extra pages included

0

Shipping container/cooler in good condition?

 Yes ☒

 No ☐

 Not Present ☐

 Temp °C **N/A**

Type of thermal preservation?

 None ☒

 Ice ☐

 Blue Ice ☐

 Dry Ice ☐

Chain of custody present?

 Yes ☒

 No ☐

Chain of custody signed when relinquished and received?

 Yes ☒

 No ☐

Chain of custody agrees with sample labels?

 Yes ☐

 No ☒

Samples in proper container/bottle?

 Yes ☒

 No ☐

Sample containers intact?

 Yes ☒

 No ☐

Sufficient sample volume for indicated test?

 Yes ☒

 No ☐

All samples received within holding time?

 Yes ☒

 No ☐

Reported field parameters measured:

 Field ☐

 Lab ☐

 NA ☒

Container/Temp Blank temperature in compliance?

 Yes ☒

 No ☐

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

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

 Yes ☐

 No ☐

 No VOA vials ☒

Water - TOX containers have zero headspace?

 Yes ☐

 No ☐

 No TOX containers ☒

Water - pH acceptable upon receipt?

 Yes ☒

 No ☐

 NA ☐

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

 Yes ☐

 No ☐

 NA ☒

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

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 3/28/2024 8:59:55 AM

Collection date for pg 3 and pg 4 per first pg comment. - AMD/ERH 3/28/24

CHAIN OF CUSTODY

Pg 1 of 4 Workorder # 24032134

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: OCCU-TEC Inc, Address: 2604 NE Industrial Drive Suite 230 City/State/Zip: North Kansas City, MO 64117 Contact: Justin Arnold Phone: 816-810-3276 Email: jarnold@occutech.com Fax: 816-994-3478				Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input checked="" type="checkbox"/> NO ICE <input checked="" type="checkbox"/> °C Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY LAB NOTES:			
Are these samples known to be involved in litigation? If yes, a surcharge will apply: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Client Comments: Pb RL <5.0 ppb Sampled 3/26/2024 JA			
PROJECT NAME/NUMBER 923294		SAMPLE COLLECTOR'S NAME Justin Arnold		# and Type of Containers		INDICATE ANALYSIS REQUESTED	
RESULTS REQUESTED <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		BILLING INSTRUCTIONS		UNP HNO3 NaOH H2SO4 HCL MeOH NaHSO4 TSP Other Lead by 200.8			
Lab Use Only	Sample ID	Date/Time Sampled	Matrix				
24032134-01	293-LDE- 01	3/27/2024 - 1333	Drinking Water	X			✓
002	293-LDE- 02	3/27/2024 - 1334	Drinking Water	X			✓
003	293-LDE- 03	3/27/2024 - 1335	Drinking Water	X			✓
004	293-LDE- 04	3/27/2024 - 1336	Drinking Water	X			✓
005	293-LDE- 05	3/27/2024 - 1337	Drinking Water	X			✓
006	293-LDE- 06	3/27/2024 - 1337	Drinking Water	X			✓
007	293-LDE- 07	3/27/2024 - 1340	Drinking Water	X			✓
008	293-LDE- 08	3/27/2024 - 1344	Drinking Water	X			✓
009	293-LDE- 09	3/27/2024 - 1346	Drinking Water	X			✓
010	293-LDE- 10	3/27/2024 - 1348	Drinking Water	X			✓
011	293-LDE- 11	3/26/2024 - 1354	Drinking Water	X			✓
Relinquished By		Date/Time		Received By		Date/Time	
[Signature]		3/27/24 0630		[Signature]		3/27/24 0630	
[Signature]		3/27/24 0900		[Signature]		3/27/24 900	

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CHAIN OF CUSTODY

Pg 2 of 4 Workorder # 24032134

TEKLAB INC. 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: OCCU-TEC Inc. Address: 2604 NE Industrial Drive Suite 230 City/State/Zip: North Kansas City, MO 64117 Contact: Justin Arnold Phone: 816-810-3276 Email: jarnold@occutech.com Fax: 816-994-3478				Samples on: <input type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE _____ °C Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY LAB NOTES:			
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PROJECT NAME/NUMBER 923294		SAMPLE COLLECTOR'S NAME Justin Arnold		# and Type of Containers		INDICATE ANALYSIS REQUESTED	
RESULTS REQUESTED <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		BILLING INSTRUCTIONS		UNP HNO3 NaOH H2SO4 HCL MeOH NaHSO4 TSP Other Lead by 200.8			
Lab Use Only	Sample ID	Date/Time Sampled	Matrix				
24032134	293-LDE-12	3/27/2024 - 1355	Drinking Water	X			✓
013	293-LDE-13	3/27/2024 - 1356	Drinking Water	X			✓
014	293-LDE-14	3/27/2024 - 1357	Drinking Water	X			✓
015	293-LDE-15	3/27/2024 - 1359	Drinking Water	X			✓
016	293-LDE-16	3/27/2024 - 1400	Drinking Water	X			✓
017	293-LDE-17	3/27/2024 - 1401	Drinking Water	X			✓
018	293-LDE-18	3/27/2024 - 1402	Drinking Water	X			✓
019	293-LDE-19	3/27/2024 - 1404	Drinking Water	X			✓
020	293-LDE-20	3/27/2024 - 1406	Drinking Water	X			✓
021	293-LDE-21	3/27/2024 - 1408	Drinking Water	X			✓
022	293-LDE-22	3/26/2024 - 1409	Drinking Water	X			✓
Relinquished By		Date/Time		Received By		Date/Time	
[Signature]		3/27/24 0620		[Signature]		3/27/24 0620	
[Signature]		3/27/24 0900		[Signature]		3/27/24 900	

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CHAIN OF CUSTODY

Pg 3 of 4 Workorder # 24032134

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PROJECT NAME/NUMBER 923294		SAMPLE COLLECTOR'S NAME Justin Arnold		# and Type of Containers		INDICATE ANALYSIS REQUESTED	
RESULTS REQUESTED <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		BILLING INSTRUCTIONS		UNP HNO3 NaOH H2SO4 HCL MeOH NaHSO4 TSP Other Lead by 200.8			
Lab Use Only	Sample ID	Date/Time Sampled	Matrix				
24032134-023	293-LDE- 23	3/27/2024 - 1410	Drinking Water	X			✓
024	293-LDE- 24	3/27/2024 - 1411	Drinking Water	X			✓
025	293-LDE- 25	3/27/2024 - 1412	Drinking Water	X			✓
026	293-LDE- 26	3/27/2024 - 1413	Drinking Water	X			✓
027	293-LDE- 27	3/27/2024 - 1415	Drinking Water	X			✓
028	293-LDE- 28	3/27/2024 - 1416	Drinking Water	X			✓
029	293-LDE- 29	3/27/2024 - 1418	Drinking Water	X			✓
030	293-LDE- 30	3/27/2024 - 1419	Drinking Water	X			✓
031	293-LDE- 31	3/27/2024 - 1420	Drinking Water	X			✓
032	293-LDE- 32	3/27/2024 - 1421	Drinking Water	X			✓
033	293-LDE- 33	3/267/2024 - 1422	Drinking Water	X			✓
Relinquished By		Date/Time		Received By		Date/Time	
[Signature]		3/27/2024 0630		[Signature]		3/27/24 0630	
		3/27/24 0900		[Signature]		3/27/24 900	

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CHAIN OF CUSTODY

Pg 4 of 4 Workorder # 24032134

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PROJECT NAME/NUMBER 923294		SAMPLE COLLECTOR'S NAME Justin Arnold		# and Type of Containers		INDICATE ANALYSIS REQUESTED	
RESULTS REQUESTED <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		BILLING INSTRUCTIONS		UNP HNO3 NaOH H2SO4 HCL MeOH NaHSO4 TSP Other Lead by 200.8			
Lab Use Only	Sample ID	Date/Time Sampled	Matrix				
24032134-024	293-LDE- 34	3/27/2024 - 1423	Drinking Water	X			✓
035	293-LDE- 35	3/27/2024 - 1425	Drinking Water	X			✓
036	293-LDE- 36	3/27/2024 - 1427	Drinking Water	X			✓
037	293-LDE- 37	3/27/2024 - 1429	Drinking Water	X			✓
038	293-LDE- 38	3/27/2024 - 1430	Drinking Water	X			✓
039	293-LDE- 39	3/27/2024 - 1431	Drinking Water	X			✓
040	293-LDE- 40	3/27/2024 - 1432	Drinking Water	X			✓
041	293-LDE- 41	3/27/2024 - 1434	Drinking Water	X			✓
042	293-LDE- 42	3/27/2024 - 1435	Drinking Water	X			✓
043	293-LDE- 43	3/27/2024 - 1436	Drinking Water	X			✓
	293-LDE-	3/26/2024 -	Drinking Water	X			✓
Relinquished By		Date/Time		Received By		Date/Time	
[Signature]		3/27/24 0630		[Signature]		3/27/24 0630	
[Signature]		3/27/24 0900		Whiting Oliver		3/27/24 900	

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