April 2, 2024

Mr. Christopher Pyle
Sedalia School District 200
Assistant Superintendent
plylec@sedalia200.org

RE: Sedalia School District – Drinking Water Testing Services (Confirmation)
Washington Elementary
610 South Engineer Avenue

Dear Mr. Pyle:

Blackstone Environmental Inc., (Blackstone) has been contracted by the Sedalia School District to provide lead in drinking water sampling for the high-priority potable water sources throughout the school district. The objective of the sampling was to determine the lead concentrations in the high priority potable water sources throughout the school district and to identify sources exceeding the Missouri SB681 Action Level of 5 parts per billion (ppb).

Background

Testing and reporting has been conducted in accordance with Missouri State Statute 160-077, Get the Lead Out of School Drinking Water Act, and included sampling of potable water fixtures used for drinking or food preparation including water fountains, faucets, taps, ice making machines, hot drink machines, and outlets used for dispensing water for cooking or for cleaning cooking and eating utensils.

Field Sampling

Field sampling procedures included preparing an inventory of drinking water outlets and outlets that are used for dispensing water for cooking or for cleaning cooking and eating utensils. Each of these locations are marked on the facility maps included in Attachment A.

Each water source was flushed for a minimum of five minutes. Signage was then attached to the source to prevent it from being used prior to sample collection. Between 8 and 18 hours after the source was flushed, Blackstone personnel returned to collect a water sample into laboratory supplied 250-mL sample containers for analysis of total lead concentration by EPA Method 200.8. New nitrile gloves were worn for each sample collection. Labels were prepared and affixed to each sampling container stating the sample location, technicians name, and date and time of sample collection. Field forms were prepared for each school to document pertinent information including sample identification, type of source, time flushed, and time sampled. Field information forms are included in Attachment B.

Once sampling was complete, the samples were transferred under proper chain-of-custody procedures to TekLab, Inc. of Collinsville, Illinois for analysis.

Analytical Summary

One confirmation water sample was collected from Washington Elementary located at 610 South Engineer Avenue. A summary table is included in Attachment C. The sample collected did not exceed the Missouri SB681 Action Level for lead of 5 ppb.

A copy of the laboratory analytical report is included as Attachment D.

Recommendations

Based on the analytical results, no further action is recommended.

Limitations

This report was prepared in accordance with that level of skill and care ordinarily exercised by other members of Blackstone's profession practicing in the same locality and under similar conditions when the services were provided. No warranties, express or implied, are intended or made.

Closing

If you have any questions, or need further assistance, please contact Lindsay James at 913-956-4160 or Randy Seamans at 913-495-9990.

Respectfully,
BLACKSTONE ENVIRONMENTAL, INC.

Randy Seamans
Environmental Technician

Lindsay E. James. R.G.
Senior Project Manager

Enclosures Attachment A – Facility Maps
Attachment B – Field Forms
Attachment C – Summary Table
Attachment D – Laboratory Analytical Report

ATTACHMENT A

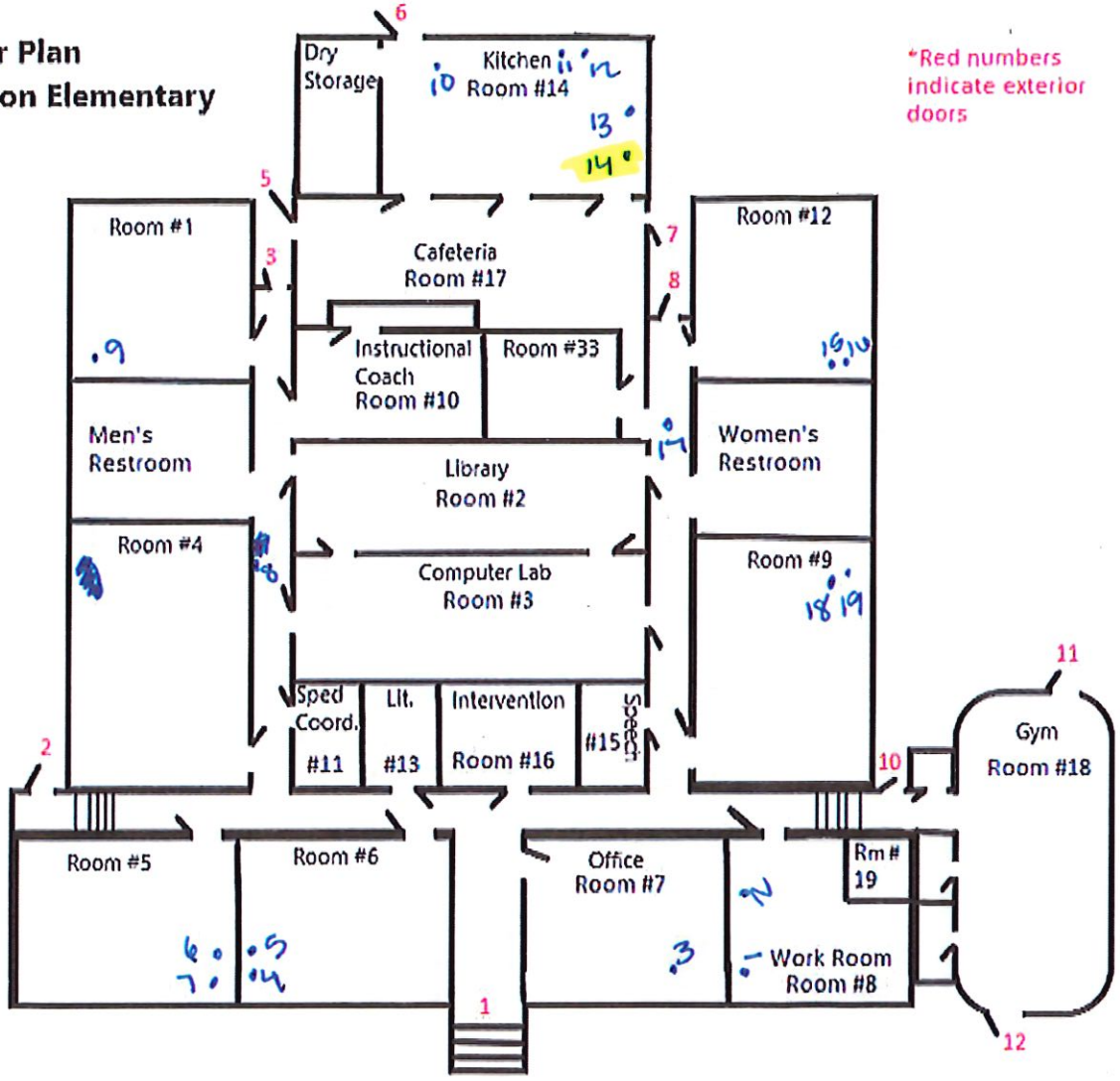
Washington Elementary
Facility Maps

600 S Engineer Ave

(1)

First Floor Plan
Washington Elementary

*Red numbers indicate exterior doors



ATTACHMENT B

Washinton Elementary
Field Forms

Date Purged 3/15/24
Date Sampled 3/10/24

School: Washington Elementary

Team RS

Sample ID = School abbrev + Floor + Type + Test number (Ex: ME1DF1)

Test #	Floor #	Sink (S)	Fountain (DF)	Other (O)	Location and Description	Time Purged	Time Sampled
1	1	x			WE1S14 - Kitchen, dish sink with sprayer	1700	900

ATTACHMENT C

Washington Elementary
Summary Table

Confirmation Summary Table
Washington Elementary

Sample ID	Date	Analyte	Result	Unit	Reporting Limit
WE1S14	3/16/2024	Lead	ND	µg/L	1

µg/L: micrograms per liter
Bolded results indicate detection above reporting limits
Results in red indicate Action Level of 5 ppb for lead is exceeded

ATTACHMENT D

Washington Elementary
Laboratory Analytical Report

March 26, 2024

Randy Seamans
Blackstone Environmental, Inc.
16200 Foster Street
Overland Park, KS 66085
TEL: (913) 495-9990
FAX:

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

RE: Sedalia School District 200 - Washington Elem **WorkOrder:** 24031380

Dear Randy Seamans:

TEKLAB, INC received 1 sample on 3/19/2024 11:10:00 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,

Shelly A Hennessy

Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com

Report Contents

Client: Blackstone Environmental, Inc.
Work Order: 24031380
Client Project: Sedalia School District 200 - Washington Elem
Report Date: 26-Mar-24

This reporting package includes the following:

Client: Blackstone Environmental, Inc. **Work Order:** 24031380

Client Project: Sedalia School District 200 - Washington Elem **Report Date:** 26-Mar-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: Blackstone Environmental, Inc. **Work Order:** 24031380

Client Project: Sedalia School District 200 - Washington Elem **Report Date:** 26-Mar-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: Blackstone Environmental, Inc.
Work Order: 24031380
Client Project: Sedalia School District 200 - Washington Elem
Report Date: 26-Mar-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

Springfield

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

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

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

Client: Blackstone Environmental, Inc. **Work Order:** 24031380

Client Project: Sedalia School District 200 - Washington Elem **Report Date:** 26-Mar-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		3/14/2024	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: Blackstone Environmental, Inc.
Work Order: 24031380
Client Project: Sedalia School District 200 - Washington Elem
Report Date: 26-Mar-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									
24031380-001A	WE1S14	NELAP		1.0	**< 1.0**	µg/L	1	03/25/2024 20:26	03/16/2024 9:00

Receiving Check List

http://www.teklabinc.com/

Client: Blackstone Environmental, Inc.
Work Order: 24031380
Client Project: Sedalia School District 200 - Washington Elem
Report Date: 26-Mar-24

Carrier: Crossroads
Received By: EES

Completed by: Amber Dilallo
On: 19-Mar-24

Reviewed by: Ellie Hopkins
On: 19-Mar-24

Pages to follow: Chain of custody 1 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.

Sample was checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 3/19/2024 12:35:06 PM

Print PDF

CHAIN OF CUSTODY

Pg __ of __ Workorder # 2403130

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

Client: Blackstone Environmental, Inc
Address: 16200 Foster Street
City/State/Zip: Overland Park, KS 66085
Contact: Randy Seamans Phone: 913-495-9990
Email: rseamans@blackstone-env.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☒ NO ICE NA °C
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:

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

Washington Elem

PROJECT NAME/NUMBER: Sedalia School District 200

SAMPLE COLLECTOR'S NAME: RS

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: DW Lead
2403130-001	WE1S14	3/16/24 900	Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓
			Drinking Water	1									✓

Relinquished By	Date/Time	Received By	Date/Time
	3/16/24 1100		3/18/24 0900
	3/18/24 1600	Emily Hackett XX	3/19/24 11:10

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions