## REPORT OF DRINKING WATER SAMPLING FOR LEAD CONTENT:



#### PREPARED FOR:

EAST CARTER R-II 24 S. HERREN AVE ELLSINORE, MO 63937

#### PREPARED BY:

SEMO COMPLIANCE & REMEDIATION 3349 COUNTY ROAD 484 POPLAR BLUFF, MO 63901

**JULY 2024** 

**DOCUMENT TO BE RETAINED INDEFINITELY** 

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#### **EXECUTIVE SUMMARY**

SEMO Compliance performed lead testing of multiple drinking fountain water sources at the Campus of East Carter R-II located at 24 S. Herren Ave Ellsinore, Missouri. The sampling was performed by trained and licensed personnel in accordance with USEPA, HUD, and State of Missouri Regulations and Guidelines.

All inspectors involved with sampling activities had EPA-approved training in Lead. Credentials for our firm and the inspector collecting the samples are included in Attachment C to this document.

All samples were collected on a "first draw" basis. "First draw" is achieved by allowing the water system to rest for at least eight hours prior to sampling in order to collect any existing debris or settlement within the sample. The intent of this sampling is to replicate "worst-case scenario" conditions. As such, ENPAQ inspectors met at the school to collect water samples before the systems were used by staff or students. The sampling was completed in accordance with the Missouri SB681 Get the Lead Out of Schools Drinking Water Act requirements. The Missouri SB681 Get the Lead Out of Schools Drinking Water Act.

Drinking water samples were collected from sixty-two (62) different locations throughout the East Carter Campus during the sampling event. The water samples were collected from drinking fountains utilized for drinking activities at the campus. After sample collection, samples were immediately delivered to Teklab, Inc. located in Collinsville, Illinois following strict chain of custody procedures. Teklab is a NELAP-accredited and State of Missouri-licensed laboratory specializing in drinking water analysis. Detailed sampling locations and sample results are located in Attachment A of this report.

Any samples reported over 5.0 ppb should be re-sampled on an annual basis at a minimum.

#### CONCLUSION/RECOMMENDATIONS

SEMO Compliance recommends that all water sources testing at 5.0 ppb or above be removed from service. These sources are subject to additional maintenance activities and remediation prior to use. Before being put back into service, it is recommended these sources be re-tested to confirm compliance with acceptable levels. The initial testing resulted in one (1) water source above the recommended level.

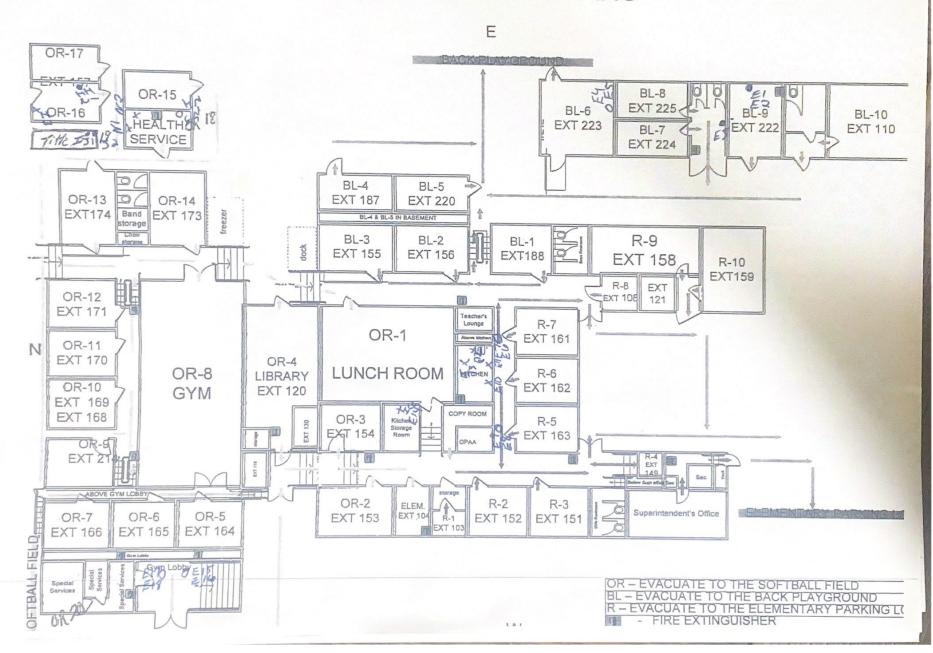
Remediation includes decreasing lead concentrations below 5 parts per billion using methods such as replacement of plumbing, solder, fittings, or fixtures, installation of filters and filter devices, or other effective methods in accordance with Missouri SB681 *Get the Lead Out of Schools Drinking Water Act.* The water source that was above 5.0 ppb has been remediated and re-tested to meet the recommended level.

Any sources above the recommended level will be subject to an ongoing maintenance program and re-testing at appropriate intervals. Any samples reported over 5.0 ppb should be re-sampled on an annual basis at a minimum.

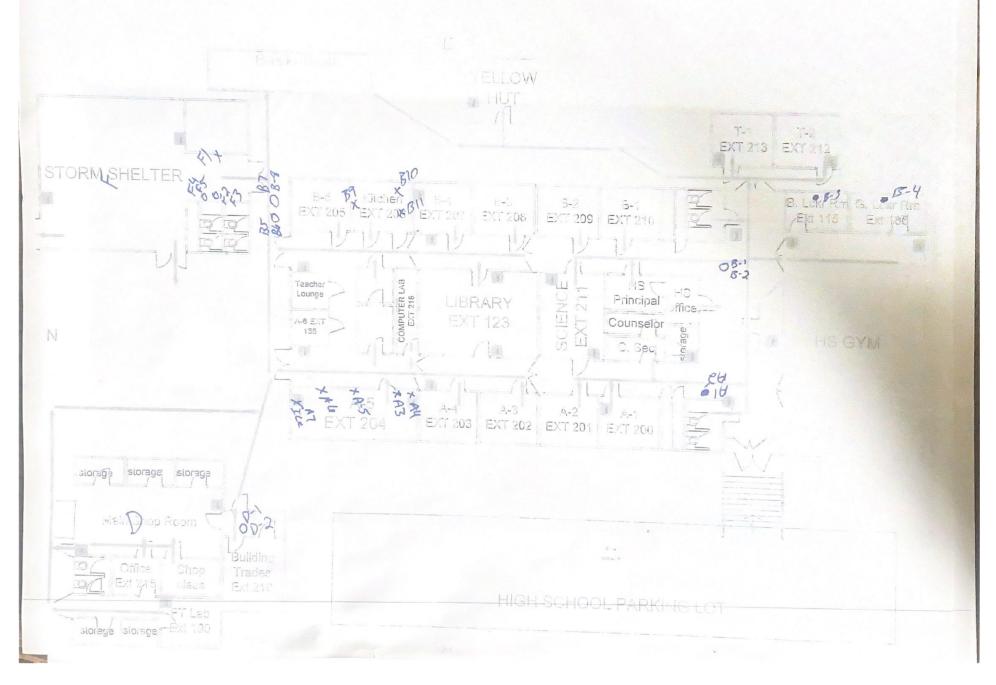
SEMO Compliance recommends that all water sources run for at least thirty seconds prior to use as recommended by the USEPA.

# APPENDIX A SAMPLE LOCATION MAPPING

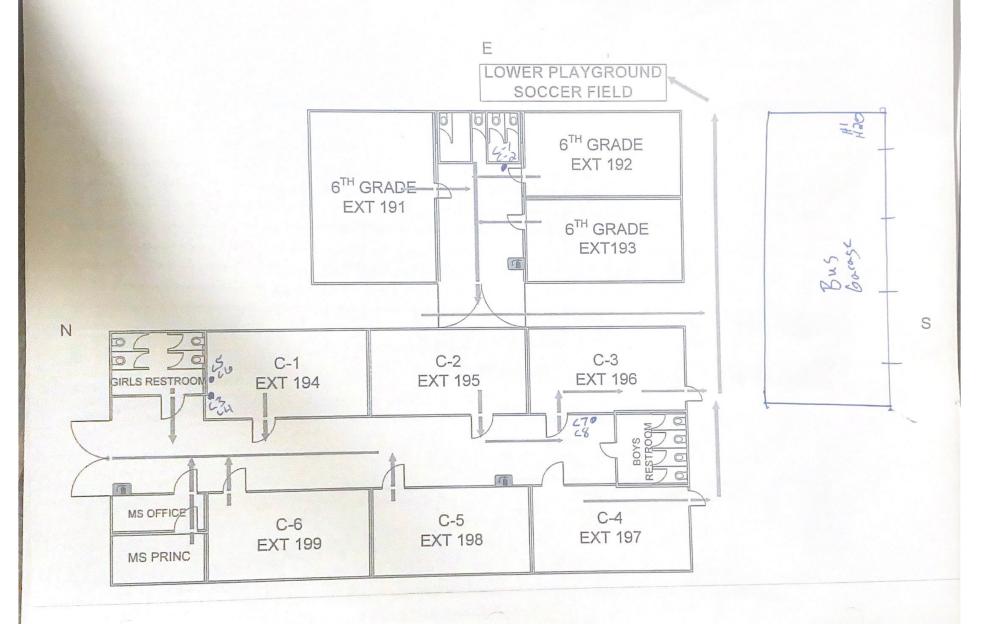
## **EVACUATION PLANS**



## EVACUATION PLANS



## **EVACUATION PLANS**



## APPENDIX B LABORATORY ANALYSIS



June 28, 2024

Matt Marshall Semo Compliance & Remediation 3349 County Road 484 Poplar Bluff, MO 63901

TEL: (574) 718-9812

FAX:

**RE:** DW Lead Analysis East Carter

Dear Matt Marshall:

TEKLAB, INC received 62 samples on 6/20/2024 12:00:00 PM 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



Illinois 100226 Illinois 1004652024-2

Kansas E-10374 Louisiana 05002 Louisiana 05003 Oklahoma 9978

**WorkOrder:** 24061706



## **Report Contents**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24061706
Client Project: DW Lead Analysis East Carter Report Date: 28-Jun-24

#### This reporting package includes the following:

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#### **Definitions**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24061706

Client Project: DW Lead Analysis East Carter Report Date: 28-Jun-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 )



#### **Definitions**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24061706

Client Project: DW Lead Analysis East Carter Report Date: 28-Jun-24

#### Qualifiers

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

- # Unknown hydrocarbon
- 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
  - Spike Recovery outside recovery limits
- X Value exceeds Maximum Contaminant Level



#### **Case Narrative**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24061706
Client Project: DW Lead Analysis East Carter Report Date: 28-Jun-24

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: Semo Compliance & Remediation Work Order: 24061706

Client Project: DW Lead Analysis East Carter Report Date: 28-Jun-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	4/30/2025	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		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



## **Laboratory Results**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24061706

Client Project: DW Lead Analysis East Carter Report Date: 28-Jun-24

Matrix: DRINKING WATER

	Client Sample ID	Certification Qua	al RL	Result	Units	DF	Date Analyzed	Date Collected
-	-	LS BY ICPMS (TOTA					v	
Lead			,					
24061706-001A	A-1	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 11:28	06/15/2024 9:14
24061706-002A	A-2	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 11:31	06/15/2024 9:15
24061706-003A	A-3	NELAP	1.0	1.3	μg/L	1	06/24/2024 11:35	06/15/2024 9:17
24061706-004A	A-4	NELAP	1.0	3.1	μg/L	1	06/24/2024 11:38	06/15/2024 9:18
24061706-005A	A-5	NELAP	1.0	1.0	μg/L	1	06/24/2024 11:41	06/15/2024 9:19
24061706-006A	A-6	NELAP	1.0	1.7	μg/L	1	06/24/2024 11:45	06/15/2024 9:20
24061706-007A	A-7 ice	NELAP	1.0	3.3	μg/L	1	06/24/2024 11:48	06/15/2024 9:20
24061706-008A	B-1	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 12:12	06/15/2024 9:07
24061706-009A	B-2	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 12:15	06/15/2024 9:08
24061706-010A	B-3	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 11:51	06/15/2024 9:10
24061706-011A	B-4	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 12:19	06/15/2024 9:11
24061706-012A	B-5	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 12:22	06/15/2024 9:22
24061706-013A	B-6	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 12:26	06/15/2024 9:23
24061706-014A	B-7	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 12:29	06/15/2024 9:24
24061706-015A	B-8	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 12:32	06/15/2024 9:24
24061706-016A	B-9	NELAP	1.0	1.7	μg/L	1	06/24/2024 12:36	06/15/2024 9:27
24061706-017A	B-10	NELAP	1.0	2.2	μg/L	1	06/24/2024 12:39	06/15/2024 9:28
24061706-018A	B-11	NELAP	1.0	1.6	μg/L	1	06/24/2024 12:43	06/15/2024 9:29
24061706-019A	C-1	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 12:56	06/15/2024 9:46
24061706-020A	C-2	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 13:20	06/15/2024 9:47
24061706-021A	C-3	NELAP	1.0	2.0	μg/L	1	06/24/2024 13:00	06/15/2024 9:50
24061706-022A	C-4	NELAP	1.0	2.5	μg/L	1	06/24/2024 13:03	06/15/2024 9:50
24061706-023A	C-5	NELAP	1.0	2.6	μg/L	1	06/24/2024 13:06	06/15/2024 9:51
24061706-024A	C-6	NELAP	1.0	3.6	μg/L	1	06/24/2024 13:10	06/15/2024 9:51
24061706-025A	C-7	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 13:13	06/15/2024 9:52
24061706-026A	C-8	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 13:17	06/15/2024 9:53
24061706-027A	D-1	NELAP	1.0	1.6	μg/L	1	06/24/2024 13:40	06/15/2024 9:42
24061706-028A	D-2	NELAP	1.0	1.8	μg/L	1	06/24/2024 13:44	06/15/2024 9:43
24061706-029A	H-1	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 14:04	06/15/2024 10:37
24061706-030A	H-2	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 13:47	06/15/2024 10:38
24061706-031A	E-1	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 13:51	06/15/2024 9:57
24061706-032A	E-2	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 13:54	06/15/2024 9:58
24061706-033A	E-3	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 13:57	06/15/2024 9:59
24061706-034A	E-4	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 14:01	06/15/2024 10:01
24061706-035A	E-5	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 14:25	06/15/2024 10:02
24061706-036A	E-6	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 14:28	06/15/2024 10:04
24061706-037A	E-7	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 14:31	06/15/2024 10:04
24061706-038A	E-8	NELAP	1.0	1.1	μg/L	1	06/24/2024 14:35	06/15/2024 10:07
24061706-039A	E-9	NELAP	1.0	1.1	μg/L	1	06/24/2024 14:48	06/15/2024 10:08
24061706-040A	E-10	NELAP	1.0	2.0	μg/L	1	06/24/2024 14:38	06/15/2024 10:09
24061706-041A	E-11	NELAP	1.0	1.2	μg/L	1	06/24/2024 14:41	06/15/2024 10:09
24061706-042A	E-12	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 14:45	06/15/2024 10:10
24061706-043A	E-13	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 15:09	06/15/2024 10:10
24061706-044A	E-14 ice	NELAP	1.0	2.9	μg/L	1	06/24/2024 15:12	06/15/2024 10:12
24061706-045A	E-15	NELAP	1.0	2.0	μg/L	1	06/24/2024 15:15	06/15/2024 10:16
24061706-046A	E-16	NELAP	1.0	2.2	μg/L	1	06/24/2024 15:19	06/15/2024 10:16
24061706-047A	E-17	NELAP	1.0	1.9	μg/L	1	06/24/2024 15:22	06/15/2024 10:17
24061706-048A	E-18	NELAP	1.0	2.7	μg/L	1	06/24/2024 15:32	06/15/2024 10:17



## **Laboratory Results**

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

Client: Semo Compliance & Remediation Work Order: 24061706

Client Project: DW Lead Analysis East Carter Report Date: 28-Jun-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, META	LS BY ICPMS (TOTAL)						
Lead								
24061706-049	A J-1	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 15:26	06/15/2024 10:28
24061706-050	A J-2	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 15:29	06/15/2024 10:29
24061706-051	A F-1 ice	NELAP	1.0	3.0	μg/L	1	06/24/2024 15:53	06/15/2024 9:31
24061706-052	A F-2	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 15:56	06/15/2024 9:33
24061706-053	A F-3	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 15:59	06/15/2024 9:33
24061706-054	A F-4	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 16:03	06/15/2024 9:34
24061706-055	A F-5	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 16:06	06/15/2024 9:34
24061706-056	A I-1	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 16:10	06/15/2024 10:33
24061706-057	A I-2	NELAP	1.0	1.2	μg/L	1	06/24/2024 16:16	06/15/2024 10:34
24061706-058	A I-3	NELAP	1.0	9.8	μg/L	5	06/27/2024 11:00	06/15/2024 10:35
24061706-059	N-1	NELAP	1.0	< 1.0	μg/L	1	06/24/2024 16:13	06/15/2024 10:24
24061706-060	A N-2	NELAP	1.0	2.9	μg/L	1	06/24/2024 16:37	06/15/2024 10:25
24061706-061	A N-3	NELAP	1.0	3.7	μg/L	1	06/24/2024 16:50	06/15/2024 10:25
24061706-062	A N-4	NELAP	1.0	2.8	μg/L	1	06/24/2024 16:54	06/15/2024 10:26



Client: Semo Compliance & Remediation

#### **Receiving Check List**

http://www.teklabinc.com/

Work Order: 24061706

Client Project: DW Lead Analysis East Carter Report Date: 28-Jun-24 Carrier: UPS Received By: LEH Completed by: Ontoer Oblacce Reviewed by: On: On: 20-Jun-24 20-Jun-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? **V** No 🗔 Not Present Temp °C N/A Type of thermal preservation? **V** Ice 🗌 Blue Ice None Dry Ice Chain of custody present? **~** No 🗌 Yes Chain of custody signed when relinquished and received? No 🗹 Yes **~** No 🗌 Chain of custody agrees with sample labels? Yes **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** No  $\square$ All samples received within holding time? Yes NA 🗸 Field Lab  $\square$ 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 🗀

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - amberdilallo - 6/20/2024 4:32:48 PM

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

g.	of	Work	order	#	2406170
----	----	------	-------	---	---------

Are these sample: Are there any requ	Semo Compliance  3349 County Road  / Zip  Poplar Bluff, MO 6  Matt Marshall  mattmarshall 1986@gmail.co  s known to be involved in little s known to be hazardous? If uired reporting limits to be ment section.   Yes	23901  com  gation? If yes, a yes, include detet on the reques	tails of the h	vill ap	i. [	Ye		No		FL	Pres .ab		ed i	n:Æ	LAE		BLU FIEL		X	NO IC		)R L	NA AB I	JSE	C ONL	LTG Y	#		MATTERIAL MARKET
Project DW Lead Analysi	Name/Number		nple Coll						1	*	N	AT	RIX	_				INC	DICA	TE A	NAL	.YSI	S RE	QU	EST	ED			70.000.0000
Results	Results Requested and Type of Containers Pour Sund Special To Prinking Soluding Solu																-												
	1-2 Day (100% Surcharge)  3 Day (50% Surcharge)  UNPRE UNAHSO Vat																												
Lab Use Only	Sample Identification	Date/Time S	Sampled	lwater Waste Waste Water Ous OTHER JAHSO4 HCL																		***************************************							
2400170L	A-1	6-15-24	7:14 an	×	T				1		X				X													***************************************	
8	A-2	6-15-24 9							1	<b>,</b>	지			<u> </u>	X														
ಹತಿ	A-3	10-15-249		X							Z				×														
<b>200</b>	A4	6-15-24	1	4							X				X			Ì			Ī								
დ5	A5	6-15-24									$ \mathcal{X} $				X														
<u> </u>	Ala	6-15-24	9:20mm	<u> </u>							X				X														
$\omega$	A7 ice	6-15-24	9:20AM	X _											X														
008	B-1	6-15-24									$\Delta$				X														
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CHAIN OF CUSTODY pg. \_\_\_ of \_\_\_ Work order # 24061706

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pg. \_\_\_ of \_\_\_ Work order # <u>14061706</u>

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

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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.

84328 BottleOrder:



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CHAIN OF CUSTODY pg. \_\_\_ of \_\_\_ Work order # 2406170

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July 10, 2024

Matt Marshall Semo Compliance & Remediation 3349 County Road 484 Poplar Bluff, MO 63901

TEL: (574) 718-9812

FAX:

**WorkOrder:** 24070452 **RE:** east carter

Dear Matt Marshall:

TEKLAB, INC received 1 sample on 7/5/2024 1:59:00 PM 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



## **Report Contents**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24070452
Client Project: east carter Report Date: 10-Jul-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



#### **Definitions**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24070452

Client Project: east carter Report Date: 10-Jul-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 )



#### **Definitions**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24070452

Client Project: east carter Report Date: 10-Jul-24

#### Qualifiers

- # Unknown hydrocarbon B - Analyte detected in associated Method Blank
  - E Value above quantitation range RL shown is a Client Requested Quantitation Limit
    - 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)

- H Holding times exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
  - Spike Recovery outside recovery limits
  - X Value exceeds Maximum Contaminant Level



#### **Case Narrative**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24070452

Client Project: east carter Report Date: 10-Jul-24

Cooler Receipt Temp: 29.8 °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: Semo Compliance & Remediation Work Order: 24070452

Client Project: east carter Report Date: 10-Jul-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	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	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		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



## **Laboratory Results**

http://www.teklabinc.com/

Client: Semo Compliance & Remediation Work Order: 24070452

Client Project: east carter Report Date: 10-Jul-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													
24070452-00	1A I-3	NELAP		1.0	< 1.0	μg/L	1	07/09/2024 13:45	07/03/2024 15:50				



Client: Semo Compliance & Remediation

#### **Receiving Check List**

http://www.teklabinc.com/

Work Order: 24070452

Client Project: east carter Report Date: 10-Jul-24 Carrier: Employee Received By: LEH Completed by: Reviewed by: On: On: 05-Jul-24 05-Jul-24 Paul Schultz Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **✓** No 🗔 Not Present Temp °C 29.8 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 **~** No 🗌 Samples in proper container/bottle? Yes **V** No 🗌 Sample containers intact? Yes Sufficient sample volume for indicated test? Yes **~** No **~** 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. No VOA vials 🗸 Water - at least one vial per sample has zero headspace? Yes 🗌 No 🗀 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  $\square$ 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. - pschultz - 7/5/2024 2:32:25 PM

CHAIN OF CUSTODY pg. \_\_\_ of \_\_\_ Work order # 240 70 45 2

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City / State	Zip Poplar Bluff, MO	63901								_	La	b i	Vot	<b>es</b>															
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# APPENDIX C CREDENTIALS

