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January 16, 2024

Bill PietroburgoProfessional Environmental Engineers, Inc.2665 Scott Ave., Suite BSt. Louis, MO 63103TEL: (314) 531-0060FAX: (314) 531-0068

RE: De Soto School District- Annex Building



WorkOrder: 23122085

Dear Bill Pietroburgo:

TEKLAB, INC received 2 samples on 12/28/2023 3:30:00 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

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Client: Professional Environmental Engineers, Inc. Client Project: De Soto School District- Annex Building Work Order: 23122085 Report Date: 16-Jan-24

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Definitions

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Client: Professional Environmental Engineers, Inc.

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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)



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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

Client: Professional Environmental Engineers, Inc. Client Project: De Soto School District- Annex Building

Cooler Receipt Temp: NA °C

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Work Order: 23122085 Report Date: 16-Jan-24

		Locations										
Collinsville		Springfield	Kansas City									
5445 Horseshoe Lake Road	Address	Address 3920 Pintail Dr		8421 Nieman Road								
Collinsville, IL 62234-7425		Springfield, IL 62711-9415		Lenexa, KS 66214								
(618) 344-1004	Phone	(217) 698-1004	Phone	(913) 541-1998								
(618) 344-1005	Fax	(217) 698-1005	Fax	(913) 541-1998								
jhriley@teklabinc.com	Email KKlostermann@teklabinc.com		Email	jhriley@teklabinc.com								
Collinsville Air		Chicago										
5445 Horseshoe Lake Road	Address	1319 Butterfield Rd.										
Collinsville, IL 62234-7425		Downers Grove, IL 60515										
(618) 344-1004	Phone	(630) 324-6855										
(618) 344-1005	Fax											
EHurley@teklabinc.com	Email	arenner@teklabinc.com										
	Collinsville, IL 62234-7425 (618) 344-1004 (618) 344-1005 jhriley@teklabinc.com Collinsville Air 5445 Horseshoe Lake Road Collinsville, IL 62234-7425 (618) 344-1004 (618) 344-1005	5445 Horseshoe Lake Road Address Collinsville, IL 62234-7425 Phone (618) 344-1004 Phone (618) 344-1005 Fax jhriley@teklabinc.com Email Collinsville Air	5445 Horseshoe Lake Road Address 3920 Pintail Dr Collinsville, IL 62234-7425 Springfield, IL 62711-9415 (618) 344-1004 Phone (217) 698-1004 (618) 344-1005 Fax (217) 698-1005 jhriley@teklabinc.com Email KKlostermann@teklabinc.com Collinsville Air Chicago 5445 Horseshoe Lake Road Address 1319 Butterfield Rd. Collinsville, IL 62234-7425 Downers Grove, IL 60515 (618) 344-1004 Phone (630) 324-6855 (618) 344-1005 Fax Chicago	5445 Horseshoe Lake RoadAddress3920 Pintail DrAddressCollinsville, IL 62234-7425Springfield, IL 62711-9415Phone(217) 698-1004Phone(618) 344-1004Phone(217) 698-1005FaxFaxjhriley@teklabinc.comEmailKKlostermann@teklabinc.comEmailCollinsville AirChicago5445 Horseshoe Lake RoadAddress1319 Butterfield Rd.Collinsville, IL 62234-7425Downers Grove, IL 60515Fax(618) 344-1004Phone(630) 324-6855Fax								



Accreditations

http://www.teklabinc.com/

Client: Professional Environmental Engineers, Inc.

Client Project: De Soto School District- Annex Building

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State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	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		1/31/2024	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

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Client: Professional Environmental Engineers, Inc. Work Order: 23122085											
Client Project:	Report Date: 1	.6-Jan-24									
Matrix:	DRINKING WAT	FER									
Sample ID Cli	e ID Client Sample ID Certification Qual RL Result Units DF Date Analyzed Date C										
EPA 600 4.1.4, 20 Lead	00.8 R5.4, META	LS BY ICPMS (TOTAL)									
23122085-001A	AB-F-KIT-1-1	NELAP	1.0	3.2	µg/L	1	01/15/2024 13:31	12/22/2023 10:45			
23122085-002A	AB-F-KIT-1-2	NELAP	1.0	< 1.0	µg/L	1	01/15/2024 13:35	12/22/2023 10:46			



Receiving Check List

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Client: Professional Environmental Engineers, Inc.

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Carrier: Employee												
On: Mary E. Kemp		iewed by: m:	CADER Stasphens									
28-Dec-23		 ec-23	June 1040									
Mary E Kemp		J	Ellie Hopkins									
Pages to follow: Chain of custody 1	Extra pages included	1 0										
Shipping container/cooler in good condition?	Yes 🔽	No 🗌	Not Present	Temp °C NA								
Type of thermal preservation?	None 🗹	Ice	Blue Ice	Dry Ice								
Chain of custody present?	Yes 🖌	No 🗌										
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌										
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌										
Samples in proper container/bottle?	Yes 🖌	No 🗌										
Sample containers intact?	Yes 🖌	No 🗌										
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌										
All samples received within holding time?	Yes 🖌	No 🗌										
Reported field parameters measured:	Field	Lab 🗌	NA 🔽									
Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌										
When thermal preservation is required, samples are complia 0.1°C - 6.0°C, or when samples are received on ice the sam		between										
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 r	nust be detailed bel	ow or on the	COC.									

Samples were checked for turbidity and then preserved with nitric acid upon arrival in the laboratory. - MaryKemp - 12/28/2023 4:13:31 PM

CHAIN OF CUSTODY

Pg_ of 1 Workorder #23122085

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

Client: Professional Environmental Engineers, Inc.					Samples on: CE BLUE ICE NO ICE A °C																			
Address: 2665 Scott Avevnue																								
City/State/Zip: St. Louis, MO 63103					LAB NOTES:																			
Contact: Bill Pietroburgo Phone: 314-531-0060																								
Email: bpietroburgo@pe-engrs.com Fax: 314-531-0068					Client Comments:																			
Are these samples known to be involved in litigation? If yes, a surcharge will apply: Yes V No Are these samples known to be hazardous? Yes V No Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: V Yes No					opb																			
PROJECT NAME/N		SAMPLE COI	LECTOR'	S NAME	# and Type of Containers INDICATE ANALYSIS REQUESTED																			
De Soto School Distri	ict - Annex Building	Michael Thier	ry										Lead											
RES	SULTS REQUESTED		BILLING INSTRUCTIONS e)			HNO3	NaOH	H2SO4	HCL	MPOH	NaHSD4	Other	≓				:							
Lab Use Only	Sample ID	Date/Time	Sampled	Matrix]								/ater											
23122085-001	AB-F-KIT-1-1	12/22/23, 104	5	Drinking Water	x								\checkmark	í 🗌										
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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