

AECOM 100 North Broadway 20th Floor St. Louis, MO 63102 aecom.com

December 3, 2024

Illinois Environmental Protection Agency Division of Water Pollution Control Compliance Assurance Section 1021 North Grand Avenue East Springfield, Illinois 62794-9276 Illinois Environmental Protection Agency Collinsville FOS 2009 Mall Street Collinsville, Illinois 62234

Shell Oil Products US Steam Enhanced Extraction Pretreatment System - Treated Water Analytical Data Village of Roxana Wastewater Treatment Plant Water Pollution Control Permit No. 2023-EE-68012 November 2024 Analytical

To Whom It May Concern:

AECOM Technical Services, Inc. (AECOM), on behalf of Shell Oil Products US (Shell), is submitting this letter as required by Water Pollution Control Permit No. 2023-EE-68012, Special Condition 8(B). This Permit is for the pretreatment and discharge of the steam enhanced extraction (SEE) wastewater to the Village of Roxana Wastewater Treatment Plant (WWTP). Special Condition 8(B) of the Permit requires monitoring of the system discharges and submittal of analytical results to the Illinois Environmental Protection Agency (IEPA). Wastewater treated through the pretreatment system is sampled on a weekly basis in accordance with Condition 13 of the August 22, 2022 letter from Illinois EPA, Permit Section, Division of Land Pollution Control (Log N. B-43R-CA-107).

During system activities in November 2024, one (1)) treated wastewater analytical sample of discharged water was analyzed. Due to system downtime, water was not continuously generated or discharged in November 2024. The table below summarizes the samples and corresponding results of water discharged in November 2024.

Sample ID	Sample Date	Benzene (mg/L)
PWYSEE-WaterEffluent-112224	11/22/2024	0.0006

Please contact Ms. Wendy Pennington (wendy.pennington@aecom.com; 314-452-8929) with any questions.

Sincerely,

Wendy Pennington, P.E. Compliance Manager

AECOM

encl: Teklab Work Order 24112072

cc: Buddy Bealer (Shell)

Scott Schmidt (Village of Roxana) Jason Woody (Village of Roxana)

Project File

Samuel Fisher, CHMM Task Manager

AECOM

Samueltisher



November 25, 2024

Samuel Fisher AECOM 100 N. Broadway, 20th Floor

St. Louis, MO 63102 TEL: (314) 802-1152 FAX: (314) 296-1969

RE: ROX PWY SEE / 60721927-7.2.2 **WorkOrder:** 24112072

Dear Samuel Fisher:

TEKLAB, INC received 1 sample on 11/22/2024 16:10:00 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,

Aaron Renner Project Manager

(630)324-6855

arenner@teklabinc.com



Illinois 100226 Illinois 1004652024-2 Kansas E-10374

Louisiana 05002 Louisiana 05003 Oklahoma 9978



Report Contents

http://www.teklabinc.com/

Client: AECOM Work Order: 24112072
Client Project: ROX PWY SEE / 60721927-7.2.2 Report Date: 25-Nov-24

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Definitions

http://www.teklabinc.com/

Client: AECOM Work Order: 24112072
Client Project: ROX PWY SEE / 60721927-7.2.2 Report Date: 25-Nov-24

Abbr Definition

- * Analytes on report marked with an asterisk are not NELAP accredited
- CCV Continuing cal bration 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 I ke 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 cal bration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the cal bration 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

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Client: AECOM Work Order: 24112072
Client Project: ROX PWY SEE / 60721927-7.2.2 Report Date: 25-Nov-24

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 Sp ke Recovery outside recovery limits
 - X Value exceeds Maximum Contaminant Level

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



Case Narrative

http://www.teklabinc.com/

Client: AECOM Work Order: 24112072
Client Project: ROX PWY SEE / 60721927-7.2.2 Report Date: 25-Nov-24

Cooler Receipt Temp: 10.5 °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: AECOM Work Order: 24112072

Client Project: ROX PWY SEE / 60721927-7.2.2 Report Date: 25-Nov-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	12/31/2024	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



Client Project: ROX PWY SEE / 60721927-7.2.2

Laboratory Results

http://www.teklabinc.com/

Report Date: 25-Nov-24

Client: AECOM Work Order: 24112072

Lab ID: 24112072-001 Client Sample ID: PWYSEE-WaterEffluent-112224

Matrix: AQUEOUS Collection Date: 11/22/2024 15:25

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed Batch					
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS													
Benzene	NELAP	0.1	0.5		0.6	μg/L	1	11/24/2024 14:10 231624					
Surr: 1,2-Dichloroethane-d4	*	0	80-120		91.7	%REC	1	11/24/2024 14:10 231624					
Surr: 4-Bromofluorobenzene	*	0	80-120		94.1	%REC	1	11/24/2024 14:10 231624					
Surr: Dibromofluoromethane	*	0	80-120		104.8	%REC	1	11/24/2024 14:10 231624					
Surr: Toluene-d8	*	0	80-120		97.6	%REC	1	11/24/2024 14:10 231624					



Quality Control Results

http://www.teklabinc.com/

Client: AECOM Work Order: 24112072

Client Project: ROX PWY SEE / 60721927-7.2.2 Report Date: 25-Nov-24

SW-846 5030, 8260B, VOLATI Batch 231624 SampType:										
Batch 231624 SampType: SampID: MBLK-AE241124A-1	MIDLE		Units µg/L							5.
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene		0.5		ND						11/24/2024
Surr: 1,2-Dichloroethane-d4	*			45.5	50.00		90.9	80	120	11/24/2024
Surr: 4-Bromofluorobenzene	*			47.2	50.00		94.4	80	120	11/24/2024
Surr: D bromofluoromethane	*			50.9	50.00		101.8	80	120	11/24/2024
Surr: Toluene-d8	*			48.7	50.00		97.4	80	120	11/24/2024
Batch 231624 SampType:	LCS		Units µg/L							
SamplD: LCS-AE241124A-1 Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene		0.5	(50.4	50.00	0	100.9	81.6	120	11/24/2024
Surr: 1,2-Dichloroethane-d4	*			45.2	50.00		90.3	80	120	11/24/2024
Surr: 4-Bromofluorobenzene	*			47.4	50.00		94.7	80	120	11/24/2024
Surr: D bromofluoromethane	*			50.8	50.00		101.6	80	120	11/24/2024
Surr: Toluene-d8	*			49.0	50.00		98.0	80	120	11/24/2024
Batch 231624 SampType:	LCSD		Units µg/L					RPD Lir	mit: 20	
SamplD: LCSD-AE241124A-1										Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref V	al %RPD	Analyzed
Benzene		0.5		50.0	50.00	0	100.0	50.43	0.82	11/24/2024
Surr: 1,2-Dichloroethane-d4	*			46.7	50.00		93.4			11/24/2024
Surr: 4-Bromofluorobenzene	*			46.8	50.00		93.5			11/24/2024
Surr: D bromofluoromethane	*			52.9	50.00		105.8			11/24/2024
Surr: Toluene-d8	*			47.7	50.00		95.4			11/24/2024
Batch 231624 SampType:	LCSG		Units %REC	:						
SamplD: LCSG-AE241124A-1										Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val		Low Limit	High Limit	Analyzed
Surr: 1,2-Dichloroethane-d4	*			45.7	50.00		91.4	80	120	11/24/2024
Surr: 4-Bromofluorobenzene	*			46.3	50.00		92.6	80	120	11/24/2024
Cur. 1 Dromondorobonzono										
Surr: D bromofluoromethane	*			51.6	50.00		103.1	80	120	11/24/2024



Quality Control Results

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Client: AECOM Work Order: 24112072

Client Project: ROX PWY SEE / 60721927-7.2.2 Report Date: 25-Nov-24

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS Batch 231624 SampType: LCSGD Units %REC RPD Limit: 0														
LCSGD		OHIIS 70KEC	•				KYD LIMIL U							
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Va	l %RPD	Date Analyzed					
*			46.3	50.00		92.5			11/24/2024					
*			45.8	50.00		91.6			11/24/2024					
*			50.3	50.00		100.6			11/24/2024					
*			49.2	50.00		98.4			11/24/2024					
MS		Units µg/L												
									Date					
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed					
	5.0		404	500.0	0	80.8	74.1	118	11/24/2024					
*			474	500.0		94.8	80	120	11/24/2024					
*			460	500.0		92.0	80	120	11/24/2024					
*			479	500.0		95.7	80	120	11/24/2024					
MSD		Units µg/L					RPD Lim	it: 20						
									Date					
Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Va	I %RPD	Date Analyzed					
Cert	RL 5.0	Qual	Result	Spike 500.0	SPK Ref Val	%REC 81.5	RPD Ref Va	0.94						
Cert *		Qual							Analyzed					
		Qual	408	500.0		81.5			Analyzed 11/24/2024					
	Cert * * * * * * * * * * * * *	Cert RL * * * * * * * * * * * * *	Cert RL Qual * * * * * * * * * * * * *	Cert RL Qual Result * 46.3 * 45.8 50.3 49.2 MS Units μg/L Cert RL Qual Result 5.0 404 * 474 * 460 * 479	Cert RL Qual Result Spike * 46.3 50.00 * 45.8 50.00 * 50.3 50.00 * 49.2 50.00 MS Units μg/L Very pg/L Cert RL Qual Result Spike 5.0 404 500.0 * 474 500.0 * 460 500.0 * 479 500.0	Cert RL Qual Result Spike SPK Ref Val * 46.3 50.00 * 45.8 50.00 * 50.3 50.00 * 49.2 50.00 MS Units μg/L Cert RL Qual Result Spike SPK Ref Val 404 500.0 0 474 460 500.0 * 460 500.0 * 479 500.0	Cert RL Qual Result Spike SPK Ref Val %REC * 46.3 50.00 92.5 * 45.8 50.00 91.6 * 50.3 50.00 100.6 * 49.2 50.00 98.4 MS Units µg/L V V V V V P P Ref Val %REC 5.0 404 500.0 0 80.8 * 474 500.0 94.8 * 460 500.0 92.0 * 460 500.0 95.7	Cert RL Qual Result Spike SPK Ref Val %REC RPD Ref Val * 46.3 50.00 92.5 * 45.8 50.00 91.6 * 50.3 50.00 100.6 * 49.2 50.00 98.4 MS Units μg/L Cert RL Qual Result Spike SPK Ref Val %REC Low Limit * 5.0 404 500.0 94.8 80 * 474 500.0 94.8 80 * 460 500.0 95.7 80 * 479 500.0 95.7 80 * * * * * * * * * * * * *	Cert RL Qual Result Spike SPK Ref Val %REC RPD Ref Val %RPD * 46.3 50.00 92.5 FRECTION NOTE FRECTION NOTE <td< td=""></td<>					



Client: AECOM

Receiving Check List

http://www.teklabinc.com/

Work Order: 24112072

Client Project: ROX PWY SEE / 60721927-7.2.2 Report Date: 25-Nov-24 Carrier: Employee Received By: NR Lama Henson Completed by: Reviewed by: On: On: 22-Nov-24 22-Nov-24 Laura E Henson Ellie Hopkins Chain of custody Extra pages included 0 Pages to follow: Shipping container/cooler in good condition? Yes 🗸 No 🗔 Not Present Temp °C 10.5 Type of thermal preservation? Ice 🗹 Blue Ice None Dry Ice Chain of custody present? **~** No 🗌 Yes Chain of custody signed when relinquished and received? **~** Yes No L **~** Chain of custody agrees with sample labels? No 🗀 Yes **~** Samples in proper container/bottle? Yes No 🗀 **V** Sample containers intact? Yes No 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. Yes 🗸 No VOA vials Water - at least one vial per sample has zero headspace? No 🗀 No 🗌 No TOX containers Water - TOX containers have zero headspace? Yes Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗸 NPDES/CWA TCN interferences checked/treated in the field? Yes No 🗀 Any No responses must be detailed below or on the COC.

24112072 -

LAB (LOCATION)	•.	Shell Oil Products US Cl								Chain Of Custody Record										AECOM										
ACCUTEST (Plea	se Check	Appr	opri	ate Bo	x:			Print Bill To Contact Name: PlaNe								et Site or Project ID CHECK IF NO INCIDENT #							O INCIDENT # A	(PPLIES			
CALSCIENCE ()	SGW FD	G		PIPB IN	E		□ RI	ETAIL		Samuel Fisher								25278 DATE: <u>M 2.2</u>						1122/7	74				
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PROJECT CONTACT (Hardcopy or PDF Repu	ONTACT (Hardcopy of PDF Report to):														Samuel Fisher, AECOM, St. Louis 314-296-1969								samuel.fisher@aecom.com							
TELEPHONE:	FAX:	Samuel Fi	amuel Fisher Sampler Name(s):													E ONLY	m,													
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