

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

November 8, 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 October 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 October 2024, three (3) treated wastewater analytical samples of discharged water were analyzed. Due to system downtime, water was not continuously generated or discharged in October 2024. The table below summarizes the samples and corresponding results of water discharged in October 2024.

Sample ID	Sample Date	Benzene (mg/L)
PWYSEE-WaterEffluent-100124	10/01/2024	<0.0005 (not detected)
PWYSEE-WaterEffluent-100924	10/09/2024	<0.0005 (not detected)
PWYSEE-WaterEffluent-101524	10/15/2024	<0.0005 (not detected)

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

Sincerely,

Wendy Pennington, P.E. Compliance Manager

AECOM

Samuel Fisher, CHMM

Samuel Fisher

Task Manager AECOM

encl: Teklab Work Orders 24100098, 24100905, 24101426

cc: Buddy Bealer (Shell)

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

Project File



October 02, 2024

Samuel Fisher AECOM 100 N. Broadway, 20th Floor

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

 Illinois
 100226

 Illinois
 1004652024-2

 Kansas
 E-10374

 Louisiana
 05002

 Louisiana
 05003

 Oklahoma
 9978

RE: PWY SEE 2024 Water Effluent / 60721927-7.2.2 **WorkOrder:** 24100098

Dear Samuel Fisher:

TEKLAB, INC received 4 samples on 10/1/2024 15:33:00 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



Report Contents

http://www.teklabinc.com/

Client: AECOM Work Order: 24100098
Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 02-Oct-24

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Definitions

http://www.teklabinc.com/

Client: AECOM Work Order: 24100098

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 02-Oct-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 cal bration 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 l brary 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/

Report Date: 02-Oct-24

Client: AECOM Work Order: 24100098

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

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

http://www.teklabinc.com/

Client: AECOM Work Order: 24100098
Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 02-Oct-24

Cooler Receipt Temp: 15.1 °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: 24100098 Report Date: 02-Oct-24

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

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



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Client: AECOM Work Order: 24100098

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 02-Oct-24

Lab ID: 24100098-001 Client Sample ID: PWYSEE-WaterEffluent-100124

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed Batch
SW-846 5030, 8260B, VOLATI	LE ORGANIC CO	OMPOL	INDS BY	GC/MS				
Benzene	NELAP	0.1	0.5		ND	μg/L	1	10/02/2024 08:47 229162
Surr: 1,2-Dichloroethane-d4	*	0	80-120		97.5	%REC	1	10/02/2024 08:47 229162
Surr: 4-Bromofluorobenzene	*	0	80-120		95.8	%REC	1	10/02/2024 08:47 229162
Surr: Dibromofluoromethane	*	0	80-120		101.7	%REC	1	10/02/2024 08:47 229162
Surr: Toluene-d8	*	0	80-120		99.9	%REC	1	10/02/2024 08:47 229162



http://www.teklabinc.com/

Client: AECOM Work Order: 24100098

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 02-Oct-24

Lab ID: 24100098-002 Client Sample ID: PWYSEE-Untreated-100124

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed Batch
SW-846 5030, 8260B, VOLATI	LE ORGANIC CO	OMPOL	INDS BY	GC/MS				
Benzene	NELAP	25.0	250		19200	μg/L	500	10/02/2024 09:12 229162
Surr: 1,2-Dichloroethane-d4	*	0	80-120		101.1	%REC	500	10/02/2024 09:12 229162
Surr: 4-Bromofluorobenzene	*	0	80-120		99.8	%REC	500	10/02/2024 09:12 229162
Surr: Dibromofluoromethane	*	0	80-120		102.8	%REC	500	10/02/2024 09:12 229162
Surr: Toluene-d8	*	0	80-120		99.7	%REC	500	10/02/2024 09:12 229162



http://www.teklabinc.com/

Client: AECOM Work Order: 24100098

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 02-Oct-24

Lab ID: 24100098-003 Client Sample ID: PWYSEE-POSTAS-100124

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed Batch
SW-846 5030, 8260B, VOLATI	LE ORGANIC CO	OMPOL	INDS BY	GC/MS				
Benzene	NELAP	0.5	5.0		134	μg/L	10	10/02/2024 09:37 229162
Surr: 1,2-Dichloroethane-d4	*	0	80-120		99.7	%REC	10	10/02/2024 09:37 229162
Surr: 4-Bromofluorobenzene	*	0	80-120		97.8	%REC	10	10/02/2024 09:37 229162
Surr: Dibromofluoromethane	*	0	80-120		101.4	%REC	10	10/02/2024 09:37 229162
Surr: Toluene-d8	*	0	80-120		98.3	%REC	10	10/02/2024 09:37 229162



http://www.teklabinc.com/

Client: AECOM Work Order: 24100098

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 02-Oct-24

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed Batch
SW-846 5030, 8260B, VOLATI	LE ORGANIC C	OMPOL	INDS BY	GC/MS				
Benzene	NELAP	0.1	0.5		12.4	μg/L	1	10/02/2024 10:52 229162
Surr: 1,2-Dichloroethane-d4	*	0	80-120		98.8	%REC	1	10/02/2024 10:52 229162
Surr: 4-Bromofluorobenzene	*	0	80-120		95.8	%REC	1	10/02/2024 10:52 229162
Surr: Dibromofluoromethane	*	0	80-120		101.2	%REC	1	10/02/2024 10:52 229162
Surr: Toluene-d8	*	0	80-120		99.2	%REC	1	10/02/2024 10:52 229162



Quality Control Results

http://www.teklabinc.com/

Report Date: 02-Oct-24

Client: AECOM Work Order: 24100098

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

SW-846 5030, 8260B, VOLATI	LE ORGA	NIC C	OMPOUND	S BY GC/MS						
Batch 229162 SampType:			Units µg/L							
SampID: MBLK-AM241002A-1										Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Benzene		0.5		ND						10/02/2024
Surr: 1,2-Dichloroethane-d4	*			48.7	50.00		97.4	80	120	10/02/2024
Surr: 4-Bromofluorobenzene	*			47.9	50.00		95.8	80	120	10/02/2024
Surr: Dibromofluoromethane	*			50.8	50.00		101.5	80	120	10/02/2024
Surr: Toluene-d8	*			49.3	50.00		98.5	80	120	10/02/2024
Batch 229162 SampType:	LCS		Units µg/L							
SamplD: LCS-AM241002A-1	Cont	DI	01	D14	C:1	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Analyses Benzene	Cert	RL 0.5	Qual	Result 49.8	Spike 50.00	0	99.7	81.6	120	10/02/2024
Surr: 1,2-Dichloroethane-d4	*	0.5		47.8	50.00	U	95.6	80	120	10/02/2024
Surr: 4-Bromofluorobenzene	*			47.8	50.00		95.6	80	120	
Surr: Dibromofluoromethane	*				50.00		101.0	80	120	10/02/2024
Surr: Toluene-d8	*			50.5 49.7	50.00		99.3	80	120	10/02/2024 10/02/2024
Suit. Toluene-do				49.7	50.00		99.3	OU	120	10/02/2024
Batch 229162 SampType:	LCSD		Units µg/L					RPD Lin	nit: 20	
SamplD: LCSD-AM241002A-1										Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Va	al %RPD	Analyzed
Benzene		0.5		46.5	50.00	0	93.0	49.84	6.89	10/02/2024
Surr: 1,2-Dichloroethane-d4	*			49.5	50.00		99.0			10/02/2024
Surr: 4-Bromofluorobenzene	*			48.4	50.00		96.9			10/02/2024
Surr: Dibromofluoromethane	*			50.6	50.00		101.2			10/02/2024
Surr: Toluene-d8	*			49.9	50.00		99.8			10/02/2024
Batch 229162 SampType:	LCS		Units µg/L							
SampID: QCS-AM241002A-1						CDK D-tV I	0/ DEO	Laure Line 2	1 Ball 1 See 2	Date Analyzed
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC		High Limit	
Benzene	*	0.5		49.8	50.00	0	99.7	65	135	10/02/2024
Surr: 1,2-Dichloroethane-d4	*			47.8	50.00		95.6	80	120	10/02/2024
Surr: 4-Bromofluorobenzene	*			47.8	50.00		95.6	80	120	10/02/2024
Surr: Dibromofluoromethane	*			50.5	50.00		101.0	80	120	10/02/2024
Surr: Toluene-d8	*			49.7	50.00		99.3	80	120	10/02/2024



Quality Control Results

http://www.teklabinc.com/

Client: AECOM Work Order: 24100098

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

Report Date: 02-Oct-24	

Batch 229162 SampType:	LCSD		Units µg/L					RPD Limi	t:	
SampID: QCSD-AM241002A-1	.	DI	0 1	D 1	6 1	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Analyses	Cert	RL	Qual	Result 46.5	Spike					,
Benzene	*	0.5			50.00	0	93.0	65	135	10/02/2024
Surr: 1,2-Dichloroethane-d4				49.5	50.00		99.0			10/02/202
Surr: 4-Bromofluorobenzene	*			48.4	50.00		96.9			10/02/202
Surr: Dibromofluoromethane	*			50.6	50.00		101.2			10/02/202
Surr: Toluene-d8	*			49.9	50.00		99.8			10/02/202
Batch 229162 SampType: SampID: 24100098-003AMS	MS		Units µg/L							Data
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene		5.0		617	500.0	134.3	96.6	74.1	118	10/02/202
Surr: 1,2-Dichloroethane-d4	*			481	500.0		96.2	80	120	10/02/202
Surr: 4-Bromofluorobenzene	*			480	500.0		95.9	80	120	10/02/202
Surr: Dibromofluoromethane	*			504	500.0		100.8	80	120	10/02/202
Surr: Toluene-d8	*			494	500.0		98.7	80	120	10/02/202
Batch 229162 SampType:	MSD		Units µg/L					RPD Limi	t: 20	
SamplD: 24100098-003AMSD										Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed
Benzene		5.0		616	500.0	134.3	96.4	617.4	0.21	10/02/202
Surr: 1,2-Dichloroethane-d4	*			490	500.0		97.9			10/02/202
Surr: 4-Bromofluorobenzene	*			486	500.0		97.1			10/02/202
Surr: Dibromofluoromethane	*			507	500.0		101.4			10/02/202
Surr: Toluene-d8	*			499	500.0		99.8			10/02/202



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

Receiving Check List

http://www.teklabinc.com/

Work Order: 24100098 Client: AECOM Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 02-Oct-24 Carrier: Employee Received By: JMD Completed by: OMOON DILLALLO Reviewed by: On: On: 01-Oct-24 01-Oct-24 Amber Dilallo Ellie Hopkins Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes **V** No 🗔 Not Present Temp °C 15.1 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 L 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 \square 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 TOX containers Water - TOX containers have zero headspace? Yes No 🗌 Yes 🗹 No 🗌 Water - pH acceptable upon receipt?

Yes

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

No 🗀

NA 🗸

LAB (LOCATION)	Shell Oil Products US Chain											Of	CL	isto	dy	R	ecc	rd		AECOM					
		Pleas	se Check	Appro	priat	e Box:				Pri	nt Bi	To C	ontac	t Nam	e:	\Box		PlaN	let Site or Project ID					□c	HECK IF NO INCIDENT # APPLIES
CALSCIENCE ()	SGW FD	G		PIPELINE			RETAIL		Samuel Fisher									2527	8			D	ATE:		
	ОНЕМІС	ALS		ONSULTA	ANT		LUBES		}							GSAP Project ID					7				
Other (Teklab; 5445 Horseshoe Lake Rd; Collinsville, IL) Lab Vendor # Dropdown	TRANSPO	ORTATION		THER													ISPC/0014/R/02/08					'AGE:1 of1			
SAMPLING COMPANY:	<u> </u>			LOG COO	D€:				1638912 US SITE ADDRESS: Street and City State									JOFC	700125	7002		AECON	A Projec	at / Task Number:	
AECOM									EDE DELINEDARI É TOURNE CONTROL CONTROL CONTROL DE LA CONTROL									-	PWY SEE 2024 Water Effluent / 60721927-7.2.2						
ADDRESS: 100 N. Broadway	- 20th Floor	; ST. LOUI	OUIS #0 53103							EOF DELIVERABLE TO (Name, Company, Office Location): PHONE NO.: Samuel Fisher, AECOM, St. Louis 314-296-1969										Serr	uei.fisi	hen@ae	ecom,cor	m	ACCOM CAR ID
PROJECT CONTACT (Mandospy or PDF Report to):	Samuel Fis	sher							Sam	pler N	iame(s):											1	LAB USE	- C .56 -46606
TELEPHONE: FAX: 314-429-0100 314-429-04	62	Bill To Contac		el.fisher	г@зес	om.com			12	ملا	me!	1											(う K	H2 R, S
TURNAROUND TIME (CALENDAR DAYS):		<u> </u>				RESULT				. 110				RE	QUE	STEL	ANA	YSIS		N 175	VIT C		<u></u>		1
STANDARD (14 DAY) 5 DAYS 3 DAYS LA - RWQOB REPORT FORMAT UST AGENCY:	□ 2	DATS	 	AUKS		ON	WEEKEN	4D	\vdash	Т		UNII	COST			\dashv			TNC	IN-US	<u> </u>				FIELD NOTES:
DELIVERABLES: [] LEVEL 1	□ LEVE 4	г	OTHER (SPEC	IFY)					1										-						TEMPERATURE ON RECEIPT
TEMPERATURE ON RECEIPT C° Cooler #1	Cooler#2		2	Cooler	#3	••••					İ														. cº 3
	COUNTE WE	····		<u> </u>					8260													-			15.1
SPECIAL INSTRUCTIONS OR NOTES: Email reports to: samuel.fisher@aecor	n.com;		STATI	E REIMBU	JR.SEMEN	E APPLIES (T RATE AF	PLIES		9u							or a second									
wendy.pennington@aecom.com; brett.howell	@aecom.com	1	☑ RECE		FICATIO	N REQUEST	TED		Benzene							•							1		Container PID Readings
			☐ PRÓV	IDE LEDC	DISK				Be						l										or Laboratory Notes
	SAMP	LING			PRES	ERVATIVE		NO. OF																	*** 24-HOUR TURNAROUND
LAB Field Sample Identification	DATE	TIME	MATRIX	uci l	טאסז ער	SO4 NON	E M3804	CONT.	П						-							TT			
PWYSEE-WaterEffluent- 100124	10/124	1250	Aqueous	2	11100 1112	1004	1	2	х												1	11			24100098-001
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Oklahoma



October 10, 2024

Samuel Fisher AECOM 100 N. Broadway, 20th Floor

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

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

9978

**RE:** PWY SEE 2024 Water Effluent / 60721927-7.2.2 **WorkOrder:** 24100905

Dear Samuel Fisher:

TEKLAB, INC received 1 sample on 10/9/2024 14:49:00 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



# **Report Contents**

http://www.teklabinc.com/

Client: AECOM Work Order: 24100905
Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 10-Oct-24

### This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	8
Receiving Check List	9
Chain of Custody	Appended



#### **Definitions**

http://www.teklabinc.com/

Client: AECOM Work Order: 24100905

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 10-Oct-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**

http://www.teklabinc.com/

Report Date: 10-Oct-24

Client: AECOM Work Order: 24100905

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

#### **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/

Work Order: 24100905 Client: AECOM Report Date: 10-Oct-24

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

Cooler Receipt Temp: 6.7 °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: 24100905

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 10-Oct-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



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

Client: AECOM Work Order: 24100905

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 10-Oct-24

Lab ID: 24100905-001 Client Sample ID: PWYSEE-WaterEffluent-100924

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		ND	μg/L	1	10/10/2024 08:56 229544				
Surr: 1,2-Dichloroethane-d4	*	0	80-120		100.9	%REC	1	10/10/2024 08:56 229544				
Surr: 4-Bromofluorobenzene	*	0	80-120		99.1	%REC	1	10/10/2024 08:56 229544				
Surr: Dibromofluoromethane	*	0	80-120		101.2	%REC	1	10/10/2024 08:56 229544				
Surr: Toluene-d8	*	0	80-120		85.3	%REC	1	10/10/2024 08:56 229544				



# **Quality Control Results**

http://www.teklabinc.com/

Report Date: 10-Oct-24

Client: AECOM Work Order: 24100905

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

Batch 229544 SampType:	LE ORGA MBLK		Units µg/L							
SampID: MBLK-AM241010A-1			- <b>6.</b>							Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed
Benzene		0.5		ND						10/10/2024
Surr: 1,2-Dichloroethane-d4	*			51.2	50.00		102.4	80	120	10/10/2024
Surr: 4-Bromofluorobenzene	*			55.7	50.00		111.4	80	120	10/10/2024
Surr: D bromofluoromethane	*			50.2	50.00		100.4	80	120	10/10/2024
Surr: Toluene-d8	*			49.3	50.00		98.7	80	120	10/10/2024
Batch 229544 SampType: SampID: LCS-AM241010A-1	LCS		Units µg/L							Dete
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene		0.5		53.4	50.00	0	106.7	81.6	120	10/10/2024
Surr: 1,2-Dichloroethane-d4	*			48.4	50.00		96.8	80	120	10/10/2024
Surr: 4-Bromofluorobenzene	*			48.5	50.00		96.9	80	120	10/10/2024
Surr: D bromofluoromethane	*			50.4	50.00		100.7	80	120	10/10/2024
Surr: Toluene-d8	*			48.9	50.00		97.7	80	120	10/10/2024
Batch 229544 SampType:	LCSD		Units µg/L					RPD Lin	nit: <b>20</b>	
SamplD: LCSD-AM241010A-1										Date
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Va	al %RPD	Analyzed
Benzene		0.5		56.6	50.00	0	113.3	53.35	5.98	10/10/2024
Surr: 1,2-Dichloroethane-d4	*			50.6	50.00		101.2			10/10/2024
Surr: 4-Bromofluorobenzene	*			48.4	50.00		96.9			10/10/2024
Surr: D bromofluoromethane	*			56.3	50.00		112.6			10/10/2024
Surr: Toluene-d8	*			44.6	50.00		89.1			10/10/2024



### **Receiving Check List**

http://www.teklabinc.com/

Work Order: 24100905 Client: AECOM Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 10-Oct-24 Carrier: Tony Jones Received By: NR Elizabeth a thurley Laura Henson Reviewed by: Completed by: On: On: 09-Oct-24 09-Oct-24 Laura E Henson Elizabeth A. Hurley Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes 🗸 No 🗔 Not Present Temp °C 6.7 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 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 🗀 Any No responses must be detailed below or on the COC.

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OK HS Molg

Oklahoma



October 16, 2024

Samuel Fisher AECOM 100 N. Broadway, 20th Floor

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

 Illinois
 100226

 Illinois
 1004652024-2

 Kansas
 E-10374

 Louisiana
 05002

 Louisiana
 05003

9978

**RE:** PWY SEE 2024 Water Effluent / 60721927-7.2.2 **WorkOrder:** 24101426

Dear Samuel Fisher:

TEKLAB, INC received 4 samples on 10/15/2024 15:27:00 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



# **Report Contents**

http://www.teklabinc.com/

Client: AECOM Work Order: 24101426
Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 16-Oct-24

### This reporting package includes the following:

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Case Narrative	5
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Receiving Check List	13
Chain of Custody	Appended



#### **Definitions**

http://www.teklabinc.com/

Client: AECOM Work Order: 24101426

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 16-Oct-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**

http://www.teklabinc.com/

Client: AECOM Work Order: 24101426

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 16-Oct-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: 24101426 Report Date: 16-Oct-24

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

Cooler Receipt Temp: 5.7 °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/

Report Date: 16-Oct-24

Client: AECOM Work Order: 24101426

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

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



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

Client: AECOM Work Order: 24101426

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 16-Oct-24

Lab ID: 24101426-001 Client Sample ID: PWYSEE-WaterEffluent-101524

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		ND	μg/L	1	10/15/2024 16:41 229807				
Surr: 1,2-Dichloroethane-d4	*	0	80-120		95.6	%REC	1	10/15/2024 16:41 229807				
Surr: 4-Bromofluorobenzene	*	0	80-120		93.4	%REC	1	10/15/2024 16:41 229807				
Surr: Dibromofluoromethane	*	0	80-120		116.1	%REC	1	10/15/2024 16:41 229807				
Surr: Toluene-d8	*	0	80-120		88.7	%REC	1	10/15/2024 16:41 229807				



http://www.teklabinc.com/

Client: AECOM Work Order: 24101426

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 16-Oct-24

Lab ID: 24101426-002 Client Sample ID: PWYSEE-Untreated-101524

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch			
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS												
Benzene	NELAP	25.0	250		25400	μg/L	500	10/15/2024 17:06	229807			
Surr: 1,2-Dichloroethane-d4	*	0	80-120		97.5	%REC	500	10/15/2024 17:06	229807			
Surr: 4-Bromofluorobenzene	*	0	80-120		107.4	%REC	500	10/15/2024 17:06	229807			
Surr: Dibromofluoromethane	*	0	80-120		112.5	%REC	500	10/15/2024 17:06	229807			
Surr: Toluene-d8	*	0	80-120		97.2	%REC	500	10/15/2024 17:06	229807			



http://www.teklabinc.com/

Client: AECOM Work Order: 24101426

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 16-Oct-24

Lab ID: 24101426-003 Client Sample ID: PWYSEE-PostAS-101524

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed	Batch			
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS												
Benzene	NELAP	0.5	5.0		301	μg/L	10	10/15/2024 17:31	229807			
Surr: 1,2-Dichloroethane-d4	*	0	80-120		96.8	%REC	10	10/15/2024 17:31	229807			
Surr: 4-Bromofluorobenzene	*	0	80-120		93.9	%REC	10	10/15/2024 17:31	229807			
Surr: Dibromofluoromethane	*	0	80-120		103.5	%REC	10	10/15/2024 17:31	229807			
Surr: Toluene-d8	*	0	80-120		88.3	%REC	10	10/15/2024 17:31	229807			



http://www.teklabinc.com/

Client: AECOM Work Order: 24101426

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

Lab ID: 24101426-004

Client Sample ID: PWYSEE-PostLGAC500-101524

Analyses	Certification	MDL	RL	Qual	Result	Units	DF	Date Analyzed Batch
SW-846 5030, 8260B, VOLATI	LE ORGANIC C	омроц	INDS BY	GC/MS				
Benzene	NELAP	0.1	0.5		90.4	μg/L	1	10/15/2024 17:56 229807
Surr: 1,2-Dichloroethane-d4	*	0	80-120		95.3	%REC	1	10/15/2024 17:56 229807
Surr: 4-Bromofluorobenzene	*	0	80-120		91.6	%REC	1	10/15/2024 17:56 229807
Surr: Dibromofluoromethane	*	0	80-120		103.7	%REC	1	10/15/2024 17:56 229807
Surr: Toluene-d8	*	0	80-120		96.4	%REC	1	10/15/2024 17:56 229807



# **Quality Control Results**

http://www.teklabinc.com/

Report Date: 16-Oct-24

Client: AECOM Work Order: 24101426

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

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SW-846 5030, 8260B, VOLATI		NIC C		S BY GC/MS									
<b>Batch 229807 SampType:</b> SampID: MBLK-AM241015A-1	MBLK		Units µg/L										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed			
Benzene		0.5	•	ND						10/15/2024			
Surr: 1,2-Dichloroethane-d4	*			47.7	50.00		95.3	80	120	10/15/2024			
Surr: 4-Bromofluorobenzene	*			48.1	50.00		96.1	80	120	10/15/2024			
Surr: D bromofluoromethane	*			52.2	50.00		104.4	80	120	10/15/2024			
Surr: Toluene-d8	*			44.0	50.00		88.0	80	120	10/15/2024			
Batch 229807 SampType:	LCS		Units µg/L										
SamplD: LCS-AM241015A-1 Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed			
Benzene		0.5	· ·	52.4	50.00	0	104.9	81.6	120	10/15/2024			
Surr: 1,2-Dichloroethane-d4	*			46.8	50.00		93.6	80	120	10/15/2024			
Surr: 4-Bromofluorobenzene	*			47.3	50.00		94.7	80	120	10/15/2024			
Surr: D bromofluoromethane	*			51.8	50.00		103.6	80	120	10/15/2024			
Surr: Toluene-d8	*			45.3	50.00		90.7	80	120	10/15/2024			
Batch 229807 SampType:	LCSD		Units µg/L										
SamplD: LCSD-AM241015A-1										Date			
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref V	al %RPD	Analyzed			
Benzene		0.5		52.5	50.00	0	105.1	52.44	0.19	10/15/2024			
Surr: 1,2-Dichloroethane-d4	*			47.2	50.00		94.4			10/15/2024			
Surr: 4-Bromofluorobenzene	*			44.5	50.00		88.9			10/15/2024			
Surr: D bromofluoromethane	*			51.6	50.00		103.3			10/15/2024			
Surr: Toluene-d8	*			48.8	50.00		97.7			10/15/2024			
Batch 229807 SampType:	LCS		Units µg/L										
SamplD: QCS-AM241015A-1										Date			
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val			High Limit	Analyzed			
Benzene	_	0.5		52.4	50.00	0	104.9	65	135	10/15/2024			
Surr: 1,2-Dichloroethane-d4	*			46.8	50.00		93.6	80	120	10/15/2024			
Surr: 4-Bromofluorobenzene	*			47.3	50.00		94.7	80	120	10/15/2024			
Surr: D bromofluoromethane	*			51.8	50.00		103.6	80	120	10/15/2024			
Surr: Toluene-d8	*			45.3	50.00		90.7	80	120	10/15/2024			



# **Quality Control Results**

http://www.teklabinc.com/

Client: AECOM Work Order: 24101426

Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2

Report Date: 16-Oct-24

Batch 229807 SampType:	LCSD		Units µg/L			RPD Limit: 40											
SamplD: QCSD-AM241015A-1										Date							
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Analyzed							
Benzene		0.5		52.5	50.00	0	105.1	52.44	0.19	10/15/2024							
Surr: 1,2-Dichloroethane-d4	*			47.2	50.00		94.4			10/15/2024							
Surr: 4-Bromofluorobenzene	*			44.5	50.00		88.9			10/15/2024							
Surr: D bromofluoromethane	*			51.6	50.00		103.3			10/15/2024							
Surr: Toluene-d8	*			48.8	50.00		97.7			10/15/2024							
Batch 229807 SampType:	MS		Units µg/L														
SamplD: 24101172-009AMS										Date							
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Analyzed							
Benzene		50.0		7030	5000	2533	90.0	74.1	118	10/15/2024							
Surr: 1,2-Dichloroethane-d4	*			4890	5000		97.8	80	120	10/15/2024							
Surr: 4-Bromofluorobenzene	*			4870	5000		97.4	80	120	10/15/2024							
Surr: D bromofluoromethane	*			4310	5000		86.2	80	120	10/15/2024							
Surr: Toluene-d8	*			4760	5000		95.2	80	120	10/15/2024							
Batch 229807 SampType:	MSD		Units µg/L					RPD Limi	it: <b>20</b>								
SamplD: 24101172-009AMSD										Date							
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val		RPD Ref Val		Analyzed							
Benzene		50.0		7140	5000	2533	92.2	7034	1.55	10/15/202							
Surr: 1,2-Dichloroethane-d4	*			4760	5000		95.3			10/15/2024							
Surr: 4-Bromofluorobenzene	*			5020	5000		100.4			10/15/202							
Surr: D bromofluoromethane	*			4260	5000		85.1			10/15/202							
Surr: Toluene-d8				4780	5000		95.5			10/15/2024							



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

### **Receiving Check List**

http://www.teklabinc.com/

Work Order: 24101426 Client: AECOM Client Project: PWY SEE 2024 Water Effluent / 60721927-7.2.2 Report Date: 16-Oct-24 Carrier: Employee Received By: JMD Elizabeth a thurley mbor Oblace Completed by: Reviewed by: On: On: 15-Oct-24 16-Oct-24 Amber Dilallo Elizabeth A. Hurley Extra pages included 0 Pages to follow: Chain of custody Shipping container/cooler in good condition? Yes No __ Not Present Temp °C 5.7 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 **V** 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 🗌 Reported field parameters measured: Yes 🗸 No  $\square$ 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 🗸 Water - at least one vial per sample has zero headspace? Yes 🗌 No VOA vials No TOX containers Water - TOX containers have zero headspace? Yes No _ Yes 🗹 No 🗌 Water - pH acceptable upon receipt? NA 🗸 Yes

Headspace was present in the PWYSEE-Untreated-101524 and PWYSEE-PostAS-101524 volatile vials. Client was notified via work order summary. - JD/amberdilallo - 10/15/2024 3:36:55 PM

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

No 🗀

24101.004

LAB (LOCATION)		Shell Oil i								Products US Chain Of Custody F										ecc	ord			AECOM		
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		SGW FD	G		PIPELINE			RETAIL		Samuel Fisher										25278					E: 10/15/24	
<b>—</b>	TESTAMERICA (_Pensacoia)			☐ CONSULTANT ☐ LUBES													GSA	P Pro	ject I	D						
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SPECIAL INSTRUCTIONS				☐ SHELL	L CONTR	ACT RATE	E APPLIES			8260	1													L		
	o: <u>samuel.fisher@aecon</u> ecom.com; brett.howeli(		1	STAT			IT RATE AP	PLIES		eue																
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