

Report of Analysis

Client:	PSEG	Date Collected:	12/09/25
Project:	PSEG Gloucester Substation	Date Received:	12/09/25
Client Sample ID:	EPH-8	SDG No.:	Q3821
Lab Sample ID:	Q3821-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.3
Sample Wt/Vol:	30.05 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	12/10/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	4.66		1	1.30	2.21	mg/kg	FE057294.D	12/10/25 22:43	PB170886
Aliphatic C9-C28	Aliphatic C9-C28	4.43	U	1	1.01	4.43	mg/kg	FE057294.D	12/10/25 22:43	PB170886
Total AliphaticEPH	Total AliphaticEPH	4.66	J		2.31	6.64	mg/kg			
Total EPH	Total EPH	4.66	J		2.31	6.64	mg/kg			

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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		Test:	EPH_NF

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1	1.01	4.43	mg/kg	12/10/25	PB170886
Aliphatic C28-C40	Aliphatic C28-C40	4.66		1	1.30	2.21	mg/kg	12/10/25	PB170886
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	25.9			40 - 140	52%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	30.4			40 - 140	61%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3821-09	Acq On:	10 Dec 2025 22:43
Client Sample ID:	EPH-8	Operator:	YP\AJ
Data file:	FE057294.D	Misc:	
Instrument:	FID_E	ALS Vial:	35
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.189	6.816	1156968	5.766	300	ug/ml
Aliphatic C12-C16	6.817	10.262	747995	3.681	200	ug/ml
Aliphatic C16-C21	10.263	13.636	678353	3.421	300	ug/ml
Aliphatic C21-C28	13.637	17.306	1031696	5.191	400	ug/ml
Aliphatic C28-C40	17.307	22.235	12644797	63.256	600	ug/ml
Aliphatic EPH	3.189	22.235	16259809	81.315		ug/ml
ortho-Terphenyl (SURR)	11.932	11.932	6665044	30.37		ug/ml
1-chlorooctadecane (SURR)	13.370	13.370	4313052	25.92		ug/ml
Aliphatic C9-C28	3.189	17.306	3615012	18.059	1200	ug/ml