

Report of Analysis

Client:	PSEG	Date Collected:	12/09/25
Project:	PSEG Gloucester Substation	Date Received:	12/09/25
Client Sample ID:	EPH-5	SDG No.:	Q3821
Lab Sample ID:	Q3821-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.03 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	5.01		1	1.34	2.26	mg/kg	FE057283.D	12/10/25 17:09	PB170886
Aliphatic C9-C28	Aliphatic C9-C28	4.52	U	1	1.03	4.52	mg/kg	FE057283.D	12/10/25 17:09	PB170886
Total AliphaticEPH	Total AliphaticEPH	5.01	J		2.37	6.78	mg/kg			
Total EPH	Total EPH	5.01	J		2.37	6.78	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	1.03	4.52	mg/kg	12/10/25	PB170886
Aliphatic C28-C40	Aliphatic C28-C40	5.01		1	1.34	2.26	mg/kg	12/10/25	PB170886
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	26.4			40 - 140	53%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	31.0			40 - 140	62%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3821-06	Acq On:	10 Dec 2025 17:09
Client Sample ID:	EPH-5	Operator:	YP\AJ
Data file:	FE057283.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.189	6.816	385631	1.922	300	ug/ml
Aliphatic C12-C16	6.817	10.262	799320	3.934	200	ug/ml
Aliphatic C16-C21	10.263	13.636	621467	3.134	300	ug/ml
Aliphatic C21-C28	13.637	17.306	1102797	5.549	400	ug/ml
Aliphatic C28-C40	17.307	22.235	13280542	66.436	600	ug/ml
Aliphatic EPH	3.189	22.235	16189757	80.974		ug/ml
ortho-Terphenyl (SURR)	11.932	11.932	6793787	30.96		ug/ml
1-chlorooctadecane (SURR)	13.370	13.370	4396558	26.42		ug/ml
Aliphatic C9-C28	3.189	17.306	2909215	14.539	1200	ug/ml