

Report of Analysis

Client:	PSEG	Date Collected:	12/09/25
Project:	PSEG Gloucester Substation	Date Received:	12/09/25
Client Sample ID:	EPH-4	SDG No.:	Q3821
Lab Sample ID:	Q3821-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
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	4.57		1	1.31	2.22	mg/kg	FE057282.D	12/10/25 16:38	PB170886
Aliphatic C9-C28	Aliphatic C9-C28	3.14	J	1	1.01	4.44	mg/kg	FE057282.D	12/10/25 16:38	PB170886
Total AliphaticEPH	Total AliphaticEPH	7.71			2.32	6.66	mg/kg			
Total EPH	Total EPH	7.71			2.32	6.66	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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CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
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Aliphatic C9-C28	Aliphatic C9-C28	3.14	J	1	1.01	4.44	mg/kg	12/10/25	PB170886
Aliphatic C28-C40	Aliphatic C28-C40	4.57		1	1.31	2.22	mg/kg	12/10/25	PB170886
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	25.8			40 - 140	52%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	29.9			40 - 140	60%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3821-05	Acq On:	10 Dec 2025 16:38
Client Sample ID:	EPH-4	Operator:	YP\AJ
Data file:	FE057282.D	Misc:	
Instrument:	FID_E	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.189	6.816	441496	2.2	300	ug/ml
Aliphatic C12-C16	6.817	10.262	848773	4.177	200	ug/ml
Aliphatic C16-C21	10.263	13.636	7166715	36.138	300	ug/ml
Aliphatic C21-C28	13.637	17.306	918176	4.62	400	ug/ml
Aliphatic C28-C40	17.307	22.235	12355573	61.809	600	ug/ml
Aliphatic EPH	3.189	22.235	21730733	108.944		ug/ml
ortho-Terphenyl (SURR)	11.933	11.933	6550805	29.85		ug/ml
1-chlorooctadecane (SURR)	13.371	13.371	4287464	25.76		ug/ml
Aliphatic C9-C28	3.189	17.306	9375160	47.135	1200	ug/ml