

Report of Analysis

Client:	PSEG	Date Collected:	09/25/25
Project:	PSEG Essex Street - Milburn	Date Received:	09/25/25
Client Sample ID:	SU-ESM-03	SDG No.:	Q3208
Lab Sample ID:	Q3208-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
09/26/25 09:35	09/29/25 16:50	PB169859

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	67.5		5	6.38	10.8	mg/kg FC069867.D
Aliphatic C9-C28	Aliphatic C9-C28	15.2		1	0.98	4.32	mg/kg FC069862.D
Total AliphaticEPH	Total AliphaticEPH	82.7			7.36	15.1	mg/kg
Total EPH	Total EPH	82.7			7.36	15.1	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069862.D	1	09/26/25	09/29/25	PB169859

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	15.2		0.98	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	65.1	E	1.28	2.16	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.4		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.1		40 - 140	84%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3208-05	Acq On:	29 Sep 2025 10:17
Client Sample ID:	SU-ESM-03	Operator:	YP/AJ
Data file:	FC069862.D	Misc:	
Instrument:	FID_C	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.282	6.575	1047539	7.845	300	ug/ml
Aliphatic C12-C16	6.576	9.977	2395867	15.292	200	ug/ml
Aliphatic C16-C21	9.978	13.343	10871970	60.552	300	ug/ml
Aliphatic C21-C28	13.344	17.007	23024339	127.247	400	ug/ml
Aliphatic C28-C40	17.008	21.960	116320863	903.975	600	ug/ml
Aliphatic EPH	3.282	21.960	153660578	1110		ug/ml
ortho-Terphenyl (SURR)	11.645	11.645	7893177	42.14		ug/ml
1-chlorooctadecane (SURR)	13.079	13.079	6543563	41.44		ug/ml
Aliphatic C9-C28	3.282	17.007	37339715	210.936	1200	ug/ml