

## Report of Analysis

Client:	PSEG	Date Collected:	08/29/25
Project:	Mountain Ave Substation	Date Received:	08/29/25
Client Sample ID:	SOUTH-TP-5	SDG No.:	Q2989
Lab Sample ID:	Q2989-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.4
Sample Wt/Vol:	30.07      Units: g	Final Vol:	2000      uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
09/02/25 10:30	09/02/25 17:10	PB169491

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
<b>TARGETS</b>								
Aliphatic C28-C40	Aliphatic C28-C40	10.2		1	1.35	2.28	mg/kg	FG016503.D
Aliphatic C9-C28	Aliphatic C9-C28	2.34	J	1	1.04	4.56	mg/kg	FG016503.D
Total AliphaticEPH	Total AliphaticEPH	12.5			2.39	6.84	mg/kg	
Total EPH	Total EPH	12.5			2.39	6.84	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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Sample Wt/Vol:	30.07      Units:    g	Final Vol:	2000              uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG016503.D	1	09/02/25	09/02/25	PB169491

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
Aliphatic C9-C28	Aliphatic C9-C28	2.34	J	1.04	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.2		1.35	2.28	mg/kg
<b>SURROGATES</b>						
3383-33-2	1-chlorooctadecane (SURR)	41.2		40 - 140	82%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.2		40 - 140	80%	SPK: 50

## Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2989-01	Acq On:	02 Sep 2025 17:10
Client Sample ID:	SOUTH-TP-5	Operator:	YP\AJ
Data file:	FG016503.D	Misc:	
Instrument:	FID_G	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.289	6.931	370729	3.231	300	ug/ml
Aliphatic C12-C16	6.932	10.390	758313	6.461	200	ug/ml
Aliphatic C16-C21	10.391	13.780	1220312	10.388	300	ug/ml
Aliphatic C21-C28	13.781	17.465	1185931	10.609	400	ug/ml
Aliphatic C28-C40	17.466	22.506	12144531	133.626	600	ug/ml
Aliphatic EPH	3.289	22.506	15679816	164.314		ug/ml
ortho-Terphenyl (SURR)	12.072	12.072	5326156	40.23		ug/ml
1-chlorooctadecane (SURR)	13.516	13.516	4149703	41.23		ug/ml
Aliphatic C9-C28	3.289	17.465	3535285	30.689	1200	ug/ml