

Report of Analysis

Client:	PSEG	Date Collected:	08/29/25
Project:	Mountain Ave Substation	Date Received:	08/29/25
Client Sample ID:	SOUTH-TP-6	SDG No.:	Q2989
Lab Sample ID:	Q2989-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.4
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
09/02/25 10:30	09/02/25 18:39	PB169491

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.79		1	1.33	2.26	mg/kg	FF016307.D
Aliphatic C9-C28	Aliphatic C9-C28	2.83	J	1	1.03	4.52	mg/kg	FF016307.D
Total AliphaticEPH	Total AliphaticEPH	5.62	J		2.36	6.78	mg/kg	
Total EPH	Total EPH	5.62	J		2.36	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016307.D	1	09/02/25	09/02/25	PB169491

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.83	J	1.03	4.52	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.79		1.33	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.3		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.5		40 - 140	79%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2989-03	Acq On:	02 Sep 2025 18:39
Client Sample ID:	SOUTH-TP-6	Operator:	YP\AJ
Data file:	FF016307.D	Misc:	
Instrument:	FID_F	ALS Vial:	29
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.221	6.863	476430	4.022	300	ug/ml
Aliphatic C12-C16	6.864	10.308	789878	6.438	200	ug/ml
Aliphatic C16-C21	10.304	13.681	1839668	14.359	300	ug/ml
Aliphatic C21-C28	13.682	17.352	1596541	12.711	400	ug/ml
Aliphatic C28-C40	17.353	22.315	3773797	37.116	600	ug/ml
Aliphatic EPH	3.221	22.315	8476314	74.645		ug/ml
ortho-Terphenyl (SURR)	11.977	11.977	5712301	39.5		ug/ml
1-chlorooctadecane (SURR)	13.418	13.418	4943715	44.32		ug/ml
Aliphatic C9-C28	3.221	17.352	4702517	37.53	1200	ug/ml