

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP9	SDG No.:	Q2970
Lab Sample ID:	Q2970-19	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.1
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/28/25 08:55	08/28/25 17:07	PB169432

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.19		1	1.28	2.17	mg/kg	FE055558.D
Aliphatic C9-C28	Aliphatic C9-C28	2.35	J	1	0.99	4.35	mg/kg	FE055558.D
Total AliphaticEPH	Total AliphaticEPH	7.54			2.27	6.52	mg/kg	
Total EPH	Total EPH	7.54			2.27	6.52	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
FE055558.D	1	08/28/25	08/28/25	PB169432

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.35	J	0.99	4.35	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.19		1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.5		40 - 140	67%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	31.8		40 - 140	64%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2970-19	Acq On:	28 Aug 2025 17:07
Client Sample ID:	TP9	Operator:	YP\AJ
Data file:	FE055558.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	3.314	6.948	888616	6.92	300	ug/ml
Aliphatic C12-C16	6.949	10.400	902607	6.681	200	ug/ml
Aliphatic C16-C21	10.401	13.779	952098	6.602	300	ug/ml
Aliphatic C21-C28	13.780	17.450	1748158	12.205	400	ug/ml
Aliphatic C28-C40	17.451	22.465	9872982	71.689	600	ug/ml
Aliphatic EPH	3.314	22.465	14364461	104.097		ug/ml
ortho-Terphenyl (SURR)	12.077	12.077	5220348	31.78		ug/ml
1-chlorooctadecane (SURR)	13.514	13.514	4187632	33.49		ug/ml
Aliphatic C9-C28	3.314	17.450	4491479	32.408	1200	ug/ml