

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP4	SDG No.:	Q2971
Lab Sample ID:	Q2971-31	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.3
Sample Wt/Vol:	30.09	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 23:12	PB169432

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.64		1	1.33	2.26	mg/kg	FE055570.D
Aliphatic C9-C28	Aliphatic C9-C28	3.18	J	1	1.03	4.52	mg/kg	FE055570.D
Total AliphaticEPH	Total AliphaticEPH	9.82			2.36	6.78	mg/kg	
Total EPH	Total EPH	9.82			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
FE055570.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	3.18	J	1.03	4.52	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.64		1.33	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	25.4		40 - 140	51%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.4		40 - 140	51%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-31	Acq On:	28 Aug 2025 23:12
Client Sample ID:	TP4	Operator:	YP\AJ
Data file:	FE055570.D	Misc:	
Instrument:	FID_E	ALS Vial:	28
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.314	6.948	332249	2.588	300	ug/ml
Aliphatic C12-C16	6.949	10.400	1108398	8.205	200	ug/ml
Aliphatic C16-C21	10.401	13.779	1117396	7.748	300	ug/ml
Aliphatic C21-C28	13.780	17.450	3383647	23.623	400	ug/ml
Aliphatic C28-C40	17.451	22.465	12147892	88.207	600	ug/ml
Aliphatic EPH	3.314	22.465	18089582	130.37		ug/ml
ortho-Terphenyl (SURR)	12.075	12.075	4179288	25.44		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	3178692	25.42		ug/ml
Aliphatic C9-C28	3.314	17.450	5941690	42.164	1200	ug/ml