

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP8-B	SDG No.:	Q2971
Lab Sample ID:	Q2971-21	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.5
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/29/25 08:12	08/29/25 16:11	PB169458

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.29		1	1.26	2.14	mg/kg	FG016481.D
Aliphatic C9-C28	Aliphatic C9-C28	2.04	J	1	0.97	4.27	mg/kg	FG016481.D
Total AliphaticEPH	Total AliphaticEPH	7.33			2.23	6.41	mg/kg	
Total EPH	Total EPH	7.33			2.23	6.41	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
FG016481.D	1	08/29/25	08/29/25	PB169458

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.04	J	0.97	4.27	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.29		1.26	2.14	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	52.2		40 - 140	104%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	49.3		40 - 140	99%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-21	Acq On:	29 Aug 2025 16:11
Client Sample ID:	TP8-B	Operator:	YP\AJ
Data file:	FG016481.D	Misc:	
Instrument:	FID_G	ALS Vial:	30
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.290	6.934	462168	4.028	300	ug/ml
Aliphatic C12-C16	6.935	10.394	764146	6.51	200	ug/ml
Aliphatic C16-C21	10.395	13.784	1032817	8.792	300	ug/ml
Aliphatic C21-C28	13.785	17.470	1035792	9.266	400	ug/ml
Aliphatic C28-C40	17.471	22.519	6760100	74.381	600	ug/ml
Aliphatic EPH	3.290	22.519	10055023	102.977		ug/ml
ortho-Terphenyl (SURR)	12.074	12.074	6524105	49.28		ug/ml
1-chlorooctadecane (SURR)	13.518	13.518	5252013	52.18		ug/ml
Aliphatic C9-C28	3.290	17.470	3294923	28.596	1200	ug/ml