

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP8-A	SDG No.:	Q2971
Lab Sample ID:	Q2971-20	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.9
Sample Wt/Vol:	30.06	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 15:42	PB169458

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	6.58		1	1.28	2.17	mg/kg FG016480.D
Aliphatic C9-C28	Aliphatic C9-C28	5.37		1	0.99	4.35	mg/kg FG016480.D
Total AliphaticEPH	Total AliphaticEPH	12.0			2.27	6.52	mg/kg
Total EPH	Total EPH	12.0			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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Analytical Method:	NJEPH	% Solid:	91.9
Sample Wt/Vol:	30.06 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
FG016480.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	5.37		0.99	4.35	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.58		1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	50.7		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.9		40 - 140	96%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-20	Acq On:	29 Aug 2025 15:42
Client Sample ID:	TP8-A	Operator:	YP\AJ
Data file:	FG016480.D	Misc:	
Instrument:	FID_G	ALS Vial:	29
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.290	6.934	498386	4.343	300	ug/ml
Aliphatic C12-C16	6.935	10.394	816304	6.955	200	ug/ml
Aliphatic C16-C21	10.395	13.784	6105835	51.976	300	ug/ml
Aliphatic C21-C28	13.785	17.470	1226368	10.97	400	ug/ml
Aliphatic C28-C40	17.471	22.519	8254487	90.824	600	ug/ml
Aliphatic EPH	3.290	22.519	16901380	165.068		ug/ml
ortho-Terphenyl (SURR)	12.073	12.073	6336877	47.87		ug/ml
1-chlorooctadecane (SURR)	13.518	13.518	5103223	50.7		ug/ml
Aliphatic C9-C28	3.290	17.470	8646893	74.244	1200	ug/ml