

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP8-C	SDG No.:	Q2971
Lab Sample ID:	Q2971-22	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
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
08/29/25 08:12	08/29/25 16:41	PB169458

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.67		1	1.35	2.29	mg/kg	FG016482.D
Aliphatic C9-C28	Aliphatic C9-C28	2.31	J	1	1.04	4.59	mg/kg	FG016482.D
Total AliphaticEPH	Total AliphaticEPH	7.98			2.39	6.88	mg/kg	
Total EPH	Total EPH	7.98			2.39	6.88	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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Lab Sample ID:	Q2971-22	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
Sample Wt/Vol:	30.09 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
FG016482.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	2.31	J	1.04	4.59	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.67		1.35	2.29	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	47.1		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.1		40 - 140	94%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-22	Acq On:	29 Aug 2025 16:41
Client Sample ID:	TP8-C	Operator:	YP\AJ
Data file:	FG016482.D	Misc:	
Instrument:	FID_G	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.290	6.934	430522	3.752	300	ug/ml
Aliphatic C12-C16	6.935	10.394	856538	7.298	200	ug/ml
Aliphatic C16-C21	10.395	13.784	970810	8.264	300	ug/ml
Aliphatic C21-C28	13.785	17.470	1215912	10.877	400	ug/ml
Aliphatic C28-C40	17.471	22.519	6736907	74.126	600	ug/ml
Aliphatic EPH	3.290	22.519	10210689	104.316		ug/ml
ortho-Terphenyl (SURR)	12.074	12.074	6237553	47.12		ug/ml
1-chlorooctadecane (SURR)	13.518	13.518	4737236	47.06		ug/ml
Aliphatic C9-C28	3.290	17.470	3473782	30.191	1200	ug/ml