

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP8-D	SDG No.:	Q2971
Lab Sample ID:	Q2971-23	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.2
Sample Wt/Vol:	30.02	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 17:11	PB169458

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	16.3		1	1.47	2.49	mg/kg FG016483.D
Aliphatic C9-C28	Aliphatic C9-C28	20.7		1	1.13	4.99	mg/kg FG016483.D
Total AliphaticEPH	Total AliphaticEPH	37.0			2.60	7.48	mg/kg
Total EPH	Total EPH	37.0			2.60	7.48	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:	80.2
Sample Wt/Vol:	30.02 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
FG016483.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	20.7		1.13	4.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	16.3		1.47	2.49	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.1		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.3		40 - 140	57%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-23	Acq On:	29 Aug 2025 17:11
Client Sample ID:	TP8-D	Operator:	YP\AJ
Data file:	FG016483.D	Misc:	
Instrument:	FID_G	ALS Vial:	32
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.290	6.934	461291	4.02	300	ug/ml
Aliphatic C12-C16	6.935	10.394	2043910	17.414	200	ug/ml
Aliphatic C16-C21	10.395	13.784	12016765	102.293	300	ug/ml
Aliphatic C21-C28	13.785	17.470	14023500	125.447	400	ug/ml
Aliphatic C28-C40	17.471	22.519	17825946	196.139	600	ug/ml
Aliphatic EPH	3.290	22.519	46371412	445.312		ug/ml
ortho-Terphenyl (SURR)	12.072	12.072	3746225	28.3		ug/ml
1-chlorooctadecane (SURR)	13.517	13.517	3229148	32.08		ug/ml
Aliphatic C9-C28	3.290	17.470	28545466	249.174	1200	ug/ml