

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP12-B	SDG No.:	Q2970
Lab Sample ID:	Q2970-15	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.4
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/28/25 10:00	08/29/25 0:49	PB169430

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	6.43		1	1.30	2.21	mg/kg FG016456.D
Aliphatic C9-C28	Aliphatic C9-C28	6.62		1	1.00	4.41	mg/kg FG016456.D
Total AliphaticEPH	Total AliphaticEPH	13.0			2.30	6.62	mg/kg
Total EPH	Total EPH	13.0			2.30	6.62	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
FG016456.D	1	08/28/25	08/29/25	PB169430

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	6.62		1.00	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.43		1.30	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.7		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.6		40 - 140	79%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2970-15	Acq On:	29 Aug 2025 00:49
Client Sample ID:	TP12-B	Operator:	YP\AJ
Data file:	FG016456.D	Misc:	
Instrument:	FID_G	ALS Vial:	38
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.292	6.936	409776	3.571	300	ug/ml
Aliphatic C12-C16	6.937	10.396	679644	5.79	200	ug/ml
Aliphatic C16-C21	10.397	13.787	7224794	61.501	300	ug/ml
Aliphatic C21-C28	13.788	17.474	2145621	19.194	400	ug/ml
Aliphatic C28-C40	17.475	22.524	7945791	87.427	600	ug/ml
Aliphatic EPH	3.292	22.524	18405626	177.484		ug/ml
ortho-Terphenyl (SURR)	12.075	12.075	5237112	39.56		ug/ml
1-chlorooctadecane (SURR)	13.520	13.520	4396155	43.67		ug/ml
Aliphatic C9-C28	3.292	17.474	10459835	90.056	1200	ug/ml