

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	TP2-D	SDG No.:	Q2971
Lab Sample ID:	Q2971-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.8
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	3.03		1	1.28	2.18	mg/kg	FF016287.D
Aliphatic C9-C28	Aliphatic C9-C28	2.21	J	1	0.99	4.36	mg/kg	FF016287.D
Total AliphaticEPH	Total AliphaticEPH	5.25	J		2.27	6.54	mg/kg	
Total EPH	Total EPH	5.25	J		2.27	6.54	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF016287.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	2.21	J	0.99	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.03		1.28	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	49.3		40 - 140	99%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.1		40 - 140	92%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2971-05	Acq On:	29 Aug 2025 16:11
Client Sample ID:	TP2-D	Operator:	YP\AJ
Data file:	FF016287.D	Misc:	
Instrument:	FID_F	ALS Vial:	71
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.232	6.870	525343	4.435	300	ug/ml
Aliphatic C12-C16	6.871	10.313	852696	6.95	200	ug/ml
Aliphatic C16-C21	10.314	13.684	1206293	9.415	300	ug/ml
Aliphatic C21-C28	13.685	17.353	1223531	9.741	400	ug/ml
Aliphatic C28-C40	17.354	22.318	4253332	41.832	600	ug/ml
Aliphatic EPH	3.232	22.318	8061195	72.373		ug/ml
ortho-Terphenyl (SURR)	11.980	11.980	6666546	46.09		ug/ml
1-chlorooctadecane (SURR)	13.419	13.419	5495959	49.27		ug/ml
Aliphatic C9-C28	3.232	17.353	3807863	30.541	1200	ug/ml