

Report of Analysis

Client:	PSEG	Date Collected:	08/22/25
Project:	North Ave Substation	Date Received:	08/22/25
Client Sample ID:	235	SDG No.:	Q2947
Lab Sample ID:	Q2947-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	98
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/25/25 08:20	08/26/25 11:23	PB169369

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	74.2		5	6.01	10.2	mg/kg FE055501.D
Aliphatic C9-C28	Aliphatic C9-C28	652		20	18.5	81.5	mg/kg FE055502.D
Total AliphaticEPH	Total AliphaticEPH	726			24.6	91.7	mg/kg
Total EPH	Total EPH	726			24.6	91.7	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 :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055485.D	1	08/25/25	08/25/25	PB169369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	665	E	0.93	4.08	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	82.3	E	1.20	2.04	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	51.0		40 - 140	102%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.9		40 - 140	90%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2947-03	Acq On:	25 Aug 2025 16:19
Client Sample ID:	235	Operator:	YP\AJ
Data file:	FE055485.D	Misc:	
Instrument:	FID_E	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.318	6.954	1852871	15.866	300	ug/ml
Aliphatic C12-C16	6.955	10.408	25533444	203.897	200	ug/ml
Aliphatic C16-C21	10.409	13.788	651432708	5150	300	ug/ml
Aliphatic C21-C28	13.789	17.461	534821447	4440	400	ug/ml
Aliphatic C28-C40	17.462	22.488	138214763	1210	600	ug/ml
Aliphatic EPH	3.318	22.488	1351855233	11000		ug/ml
ortho-Terphenyl (SURR)	12.097	12.097	6412555	44.9		ug/ml
1-chlorooctadecane (SURR)	13.539	13.539	5483633	51		ug/ml
Aliphatic C9-C28	3.318	17.461	1213640470	9810	1200	ug/ml