

Report of Analysis

Client:	PSEG	Date Collected:	08/22/25
Project:	North Ave Substation	Date Received:	08/22/25
Client Sample ID:	291	SDG No.:	Q2947
Lab Sample ID:	Q2947-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	96
Sample Wt/Vol:	30.01	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 9:22	PB169369

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	81.4		5	6.14	10.4	mg/kg FE055497.D
Aliphatic C9-C28	Aliphatic C9-C28	4340		100	94.8	415	mg/kg FE055498.D
Total AliphaticEPH	Total AliphaticEPH	4420			101	426	mg/kg
Total EPH	Total EPH	4420			101	426	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
FE055483.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	3650	E	0.95	4.16	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	79.4	E	1.23	2.08	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	0.00		40 - 140	0%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2947-01	Acq On:	25 Aug 2025 15:18
Client Sample ID:	291	Operator:	YP\AJ
Data file:	FE055483.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.318	6.954	2402337	20.571	300	ug/ml
Aliphatic C12-C16	6.955	10.408	188716173	1510	200	ug/ml
Aliphatic C16-C21	10.409	13.788	4128320264	32700	300	ug/ml
Aliphatic C21-C28	13.789	17.461	2219626354	18400	400	ug/ml
Aliphatic C28-C40	17.462	22.488	130306451	1140	600	ug/ml
Aliphatic EPH	3.318	22.488	6669371579	53700		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C28	3.318	17.461	6539065128	52700	1200	ug/ml