

Report of Analysis

Client:	PSEG	Date Collected:	09/19/25
Project:	Chestnut St OP	Date Received:	09/19/25
Client Sample ID:	SP-B-EPH-2	SDG No.:	Q3145
Lab Sample ID:	Q3145-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
09/22/25 10:00	09/23/25 3:34	PB169775

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	10.4		1	1.37	2.32	mg/kg	FE055946.D
Aliphatic C9-C28	Aliphatic C9-C28	3.58	J	1	1.06	4.64	mg/kg	FE055946.D
Total AliphaticEPH	Total AliphaticEPH	14.0			2.43	6.96	mg/kg	
Total EPH	Total EPH	14.0			2.43	6.96	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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Sample Wt/Vol:	30.04 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
FE055946.D	1	09/22/25	09/23/25	PB169775

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.58	J	1.06	4.64	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.4		1.37	2.32	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.0		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.2		40 - 140	72%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3145-04	Acq On:	23 Sep 2025 03:34
Client Sample ID:	SP-B-EPH-2	Operator:	YP\AJ
Data file:	FE055946.D	Misc:	
Instrument:	FID_E	ALS Vial:	32
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.312	6.947	513307	3.998	300	ug/ml
Aliphatic C12-C16	6.948	10.400	1123728	8.318	200	ug/ml
Aliphatic C16-C21	10.401	13.780	1416530	9.822	300	ug/ml
Aliphatic C21-C28	13.781	17.452	3458966	24.149	400	ug/ml
Aliphatic C28-C40	17.453	22.472	18479715	134.184	600	ug/ml
Aliphatic EPH	3.312	22.472	24992246	180.47		ug/ml
ortho-Terphenyl (SURR)	12.071	12.071	5951876	36.23		ug/ml
1-chlorooctadecane (SURR)	13.508	13.508	4625233	36.99		ug/ml
Aliphatic C9-C28	3.312	17.452	6512531	46.287	1200	ug/ml