

## Report of Analysis

Client:	PSEG	Date Collected:	02/05/25
Project:	PSEG Elizabeth - Roselle Parks	Date Received:	02/05/25
Client Sample ID:	WC-2-EPH	SDG No.:	Q1309
Lab Sample ID:	Q1309-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	83.4
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
02/06/25 09:45	02/06/25 16:01	PB166589

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
<b>TARGETS</b>								
Aliphatic C28-C40	Aliphatic C28-C40	11.6		1	2.16	2.40	mg/kg	FE052267.D
Aliphatic C9-C28	Aliphatic C9-C28	4.80	U	1	2.06	4.80	mg/kg	FE052267.D
Total AliphaticEPH	Total AliphaticEPH	11.6			4.22	7.20	mg/kg	
Total EPH	Total EPH	11.6			4.22	7.20	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
FE052267.D	1	02/06/25	02/06/25	PB166589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	2.06	4.80	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.6		2.16	2.40	mg/kg
<b>SURROGATES</b>						
3383-33-2	1-chlorooctadecane (SURR)	42.5		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.5		40 - 140	79%	SPK: 50

## Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1309-02	Acq On:	06 Feb 2025 16:01
Client Sample ID:	WC-2-EPH	Operator:	YP\AJ
Data file:	FE052267.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.679	7.237	525554	5.464	300	ug/ml
Aliphatic C12-C16	7.238	10.641	532490	5.085	200	ug/ml
Aliphatic C16-C21	10.642	13.987	594487	5.26	300	ug/ml
Aliphatic C21-C28	13.988	17.631	1226316	10.757	400	ug/ml
Aliphatic C28-C40	17.632	22.723	13326508	145.56	600	ug/ml
Aliphatic EPH	3.679	22.723	16205355	172.126		ug/ml
ortho-Terphenyl (SURR)	12.313	12.313	4895559	39.55		ug/ml
1-chlorooctadecane (SURR)	13.725	13.725	4198231	42.54		ug/ml
Aliphatic C9-C28	3.679	17.631	2878847	26.566	1200	ug/ml