

Report of Analysis

Client:	PSEG	Date Collected:	02/05/25
Project:	PSEG Elizabeth - Roselle Parks	Date Received:	02/05/25
Client Sample ID:	WC-4-EPH	SDG No.:	Q1309
Lab Sample ID:	Q1309-10	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	83.4
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
02/06/25 09:45	02/06/25 18:02	PB166589

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	12.2		1	2.15	2.39	mg/kg	FE052271.D
Aliphatic C9-C28	Aliphatic C9-C28	4.80	U	1	2.06	4.80	mg/kg	FE052271.D
Total AliphaticEPH	Total AliphaticEPH	12.2			4.21	7.19	mg/kg	
Total EPH	Total EPH	12.2			4.21	7.19	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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Analytical Method:	NJEPH	% Solid:	83.4
Sample Wt/Vol:	30.05 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
FE052271.D	1	02/06/25	02/06/25	PB166589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	2.06	4.80	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	12.2		2.15	2.39	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.3		40 - 140	45%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	21.3		40 - 140	43%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1309-10	Acq On:	06 Feb 2025 18:02
Client Sample ID:	WC-4-EPH	Operator:	YP\AJ
Data file:	FE052271.D	Misc:	
Instrument:	FID_E	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.679	7.237	478464	4.974	300	ug/ml
Aliphatic C12-C16	7.238	10.641	453571	4.332	200	ug/ml
Aliphatic C16-C21	10.642	13.987	405405	3.587	300	ug/ml
Aliphatic C21-C28	13.988	17.631	882038	7.737	400	ug/ml
Aliphatic C28-C40	17.632	22.723	14052116	153.485	600	ug/ml
Aliphatic EPH	3.679	22.723	16271594	174.115		ug/ml
ortho-Terphenyl (SURR)	12.310	12.310	2641817	21.34		ug/ml
1-chlorooctadecane (SURR)	13.723	13.723	2196790	22.26		ug/ml
Aliphatic C9-C28	3.679	17.631	2219478	20.63	1200	ug/ml