

Report of Analysis

Client:	PSEG	Date Collected:	02/07/25
Project:	PSEG Elizabeth - Roselle Parks	Date Received:	02/07/25
Client Sample ID:	WC-9-EPH	SDG No.:	Q1343
Lab Sample ID:	Q1343-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.3
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
02/10/25 08:27	02/10/25 20:57	PB166637

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	4.53		1	2.13	2.37	mg/kg	FE052328.D
Aliphatic C9-C28	Aliphatic C9-C28	4.73	U	1	2.04	4.73	mg/kg	FE052328.D
Total AliphaticEPH	Total AliphaticEPH	4.53	J		4.17	7.10	mg/kg	
Total EPH	Total EPH	4.53	J		4.17	7.10	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 :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052328.D	1	02/10/25	02/10/25	PB166637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	2.04	4.73	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.53		2.13	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	42.7		40 - 140	85%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.0		40 - 140	80%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1343-02	Acq On:	10 Feb 2025 20:57
Client Sample ID:	WC-9-EPH	Operator:	YP\AJ
Data file:	FE052328.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	3.682	7.240	853689	8.876	300	ug/ml
Aliphatic C12-C16	7.241	10.644	692032	6.609	200	ug/ml
Aliphatic C16-C21	10.645	13.990	484405	4.286	300	ug/ml
Aliphatic C21-C28	13.991	17.632	1038238	9.107	400	ug/ml
Aliphatic C28-C40	17.633	22.724	5251710	57.362	600	ug/ml
Aliphatic EPH	3.682	22.724	8320074	86.24		ug/ml
ortho-Terphenyl (SURR)	12.315	12.315	4947307	39.97		ug/ml
1-chlorooctadecane (SURR)	13.726	13.726	4213057	42.69		ug/ml
Aliphatic C9-C28	3.682	17.632	3068364	28.878	1200	ug/ml