

Report of Analysis

Client:	PSEG	Date Collected:	05/27/25
Project:	OR 646 Closter & Demarest	Date Received:	05/27/25
Client Sample ID:	OR-646-155	SDG No.:	Q2136
Lab Sample ID:	Q2136-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	77.8
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/29/25 09:15	05/29/25 16:35	PB168197

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	4.04		1	1.51	2.56	mg/kg	FE054074.D
Aliphatic C9-C28	Aliphatic C9-C28	1.63	J	1	1.17	5.13	mg/kg	FE054074.D
Total AliphaticEPH	Total AliphaticEPH	5.67	J		2.68	7.68	mg/kg	
Total EPH	Total EPH	5.67	J		2.68	7.68	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
FE054074.D	1	05/29/25	05/29/25	PB168197

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.63	J	1.17	5.13	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.04		1.51	2.56	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.9		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.6		40 - 140	85%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2136-04	Acq On:	29 May 2025 16:35
Client Sample ID:	OR-646-155	Operator:	YP\AJ
Data file:	FE054074.D	Misc:	
Instrument:	FID_E	ALS Vial:	10
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.088	6.732	398023	2.936	300	ug/ml
Aliphatic C12-C16	6.733	10.179	616014	4.565	200	ug/ml
Aliphatic C16-C21	10.180	13.553	460859	3.494	300	ug/ml
Aliphatic C21-C28	13.554	17.219	996578	8.025	400	ug/ml
Aliphatic C28-C40	17.220	22.092	5454755	47.256	600	ug/ml
Aliphatic EPH	3.088	22.092	7926229	66.276		ug/ml
ortho-Terphenyl (SURR)	11.841	11.841	6925369	42.61		ug/ml
1-chlorooctadecane (SURR)	13.285	13.285	5558832	46.89		ug/ml
Aliphatic C9-C28	3.088	17.219	2471474	19.02	1200	ug/ml