

## Report of Analysis

Client:	PSEG	Date Collected:	05/07/25
Project:	OR-636 Oradell and New Milford	Date Received:	05/08/25
Client Sample ID:	OR-636-23	SDG No.:	Q1983
Lab Sample ID:	Q1983-46	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89
Sample Wt/Vol:	30.02      Units:    g	Final Vol:	2000                      uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/12/25 08:30	05/12/25 15:35	PB167945

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
<b>TARGETS</b>								
Aliphatic C28-C40	Aliphatic C28-C40	4.46		1	1.32	2.25	mg/kg	FE053768.D
Aliphatic C9-C28	Aliphatic C9-C28	5.96		1	1.02	4.49	mg/kg	FE053768.D
Total AliphaticEPH	Total AliphaticEPH	10.4			2.34	6.74	mg/kg	
Total EPH	Total EPH	10.4			2.34	6.74	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
FE053768.D	1	05/12/25	05/12/25	PB167945

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
Aliphatic C9-C28	Aliphatic C9-C28	5.96		1.02	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.46		1.32	2.25	mg/kg
<b>SURROGATES</b>						
3383-33-2	1-chlorooctadecane (SURR)	31.4		40 - 140	63%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.6		40 - 140	61%	SPK: 50

## Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1983-46	Acq On:	12 May 2025 15:35
Client Sample ID:	OR-636-23	Operator:	YP\AJ
Data file:	FE053768.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.103	6.745	344382	2.485	300	ug/ml
Aliphatic C12-C16	6.746	10.194	876423	6.18	200	ug/ml
Aliphatic C16-C21	10.195	13.568	10306266	70.9	300	ug/ml
Aliphatic C21-C28	13.569	17.237	841761	5.921	400	ug/ml
Aliphatic C28-C40	17.238	22.126	7689372	59.585	600	ug/ml
Aliphatic EPH	3.103	22.126	20058204	145.071		ug/ml
ortho-Terphenyl (SURR)	11.856	11.856	5526568	30.64		ug/ml
1-chlorooctadecane (SURR)	13.301	13.301	4250296	31.44		ug/ml
Aliphatic C9-C28	3.103	17.237	12368832	85.486	1200	ug/ml