

Report of Analysis

Client:	PSEG	Date Collected:	04/23/25
Project:	Aldene Switching Station	Date Received:	04/23/25
Client Sample ID:	RBR200059	SDG No.:	Q1867
Lab Sample ID:	Q1867-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.9
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/25/25 08:45	04/25/25 13:22	PB167736

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	18.1		1	1.36	2.30	mg/kg FE053524.D
Aliphatic C9-C28	Aliphatic C9-C28	9.47		1	1.04	4.60	mg/kg FE053524.D
Total AliphaticEPH	Total AliphaticEPH	27.6			2.40	6.90	mg/kg
Total EPH	Total EPH	27.6			2.40	6.90	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
FE053524.D	1	04/25/25	04/25/25	PB167736

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	9.47		1.04	4.60	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	18.1		1.36	2.30	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.3		40 - 140	55%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.3		40 - 140	51%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1867-02	Acq On:	25 Apr 2025 13:22
Client Sample ID:	RBR200059	Operator:	YP\AJ
Data file:	FE053524.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	3.117	6.758	381213	2.751	300	ug/ml
Aliphatic C12-C16	6.759	10.207	1397656	9.856	200	ug/ml
Aliphatic C16-C21	10.208	13.582	6213948	42.748	300	ug/ml
Aliphatic C21-C28	13.583	17.248	9707831	68.281	400	ug/ml
Aliphatic C28-C40	17.249	22.139	30535585	236.62	600	ug/ml
Aliphatic EPH	3.117	22.139	48236233	360.256		ug/ml
ortho-Terphenyl (SURR)	11.870	11.870	4566661	25.32		ug/ml
1-chlorooctadecane (SURR)	13.315	13.315	3690174	27.3		ug/ml
Aliphatic C9-C28	3.117	17.248	17700648	123.636	1200	ug/ml