

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:	Q1867-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.9
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 12:52	PB167736

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	15.8		1	1.30	2.20	mg/kg FE053523.D
Aliphatic C9-C28	Aliphatic C9-C28	20.8		1	1.00	4.39	mg/kg FE053523.D
Total AliphaticEPH	Total AliphaticEPH	36.6			2.30	6.59	mg/kg
Total EPH	Total EPH	36.6			2.30	6.59	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
FE053523.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	20.8		1.00	4.39	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	15.8		1.30	2.20	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.1		40 - 140	58%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.4		40 - 140	55%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1867-01	Acq On:	25 Apr 2025 12:52
Client Sample ID:	RBR200059	Operator:	YP\AJ
Data file:	FE053523.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.117	6.758	504250	3.639	300	ug/ml
Aliphatic C12-C16	6.759	10.207	2565232	18.09	200	ug/ml
Aliphatic C16-C21	10.208	13.582	19561111	134.567	300	ug/ml
Aliphatic C21-C28	13.583	17.248	18186808	127.919	400	ug/ml
Aliphatic C28-C40	17.249	22.139	27834412	215.688	600	ug/ml
Aliphatic EPH	3.117	22.139	68651813	499.903		ug/ml
ortho-Terphenyl (SURR)	11.873	11.873	4936780	27.37		ug/ml
1-chlorooctadecane (SURR)	13.319	13.319	3933195	29.1		ug/ml
Aliphatic C9-C28	3.117	17.248	40817401	284.215	1200	ug/ml