

Report of Analysis

Client:	PSEG	Date Collected:	04/23/25
Project:	Aldene Switching Station	Date Received:	04/23/25
Client Sample ID:	VNJ211	SDG No.:	Q1867
Lab Sample ID:	Q1867-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.9
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
04/25/25 08:45	04/25/25 14:44	PB167736

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	8.86		1	1.46	2.47	mg/kg	FC068692.D
Aliphatic C9-C28	Aliphatic C9-C28	4.08	J	1	1.12	4.93	mg/kg	FC068692.D
Total AliphaticEPH	Total AliphaticEPH	12.9			2.58	7.40	mg/kg	
Total EPH	Total EPH	12.9			2.58	7.40	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
FC068692.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	4.08	J	1.12	4.93	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.86		1.46	2.47	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.1		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.4		40 - 140	85%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1867-03	Acq On:	25 Apr 2025 14:44
Client Sample ID:	VNJ211	Operator:	YP/AJ
Data file:	FC068692.D	Misc:	
Instrument:	FID_C	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.346	6.649	346937	3.295	300	ug/ml
Aliphatic C12-C16	6.650	10.051	598971	5.854	200	ug/ml
Aliphatic C16-C21	10.052	13.420	1152894	11.667	300	ug/ml
Aliphatic C21-C28	13.421	17.086	2717804	28.856	400	ug/ml
Aliphatic C28-C40	17.087	22.097	9679669	107.692	600	ug/ml
Aliphatic EPH	3.346	22.097	14496275	157.364		ug/ml
ortho-Terphenyl (SURR)	11.722	11.722	5400544	42.41		ug/ml
1-chlorooctadecane (SURR)	13.155	13.155	4096264	44.1		ug/ml
Aliphatic C9-C28	3.346	17.086	4816606	49.672	1200	ug/ml