

Report of Analysis

Client:	PSEG	Date Collected:	04/24/25
Project:	PSEG Keasby	Date Received:	04/24/25
Client Sample ID:	MH-F	SDG No.:	Q1869
Lab Sample ID:	Q1869-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.5
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/25/25 08:45	04/25/25 13:53	PB167736

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	11.6		1	1.32	2.23	mg/kg	FE053525.D
Aliphatic C9-C28	Aliphatic C9-C28	2.63	J	1	1.02	4.47	mg/kg	FE053525.D
Total AliphaticEPH	Total AliphaticEPH	14.2			2.34	6.71	mg/kg	
Total EPH	Total EPH	14.2			2.34	6.71	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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Analytical Method:	NJEPH	% Solid:	89.5
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053525.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	2.63	J	1.02	4.47	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	11.6		1.32	2.23	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	22.3		40 - 140	45%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.0		40 - 140	44%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1869-01	Acq On:	25 Apr 2025 13:53
Client Sample ID:	MH-F	Operator:	YP\AJ
Data file:	FE053525.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	3.117	6.758	400148	2.888	300	ug/ml
Aliphatic C12-C16	6.759	10.207	1672415	11.794	200	ug/ml
Aliphatic C16-C21	10.208	13.582	1075122	7.396	300	ug/ml
Aliphatic C21-C28	13.583	17.248	1875266	13.19	400	ug/ml
Aliphatic C28-C40	17.249	22.139	20144892	156.102	600	ug/ml
Aliphatic EPH	3.117	22.139	25167843	191.37		ug/ml
ortho-Terphenyl (SURR)	11.870	11.870	3963021	21.97		ug/ml
1-chlorooctadecane (SURR)	13.314	13.314	3019274	22.34		ug/ml
Aliphatic C9-C28	3.117	17.248	5022951	35.268	1200	ug/ml