

Report of Analysis

Client:	PSEG	Date Collected:	04/25/25
Project:	PSEG Keasby	Date Received:	04/25/25
Client Sample ID:	MH-U2-EPH	SDG No.:	Q1892
Lab Sample ID:	Q1892-10	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.6
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/28/25 10:25	04/28/25 19:10	PB167768

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.33	J	1	1.38	2.33	mg/kg	FE053551.D
Aliphatic C9-C28	Aliphatic C9-C28	4.68	U	1	1.06	4.68	mg/kg	FE053551.D
Total AliphaticEPH	Total AliphaticEPH	7.01	U		2.44	7.01	mg/kg	
Total EPH	Total EPH	7.01	U		2.44	7.01	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053551.D	1	04/28/25	04/28/25	PB167768

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.06	4.68	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.33	J	1.38	2.33	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.2		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.3		40 - 140	73%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1892-10	Acq On:	28 Apr 2025 19:10
Client Sample ID:	MH-U2-EPH	Operator:	YP\AJ
Data file:	FE053551.D	Misc:	
Instrument:	FID_E	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.119	6.761	384185	2.773	300	ug/ml
Aliphatic C12-C16	6.762	10.211	777925	5.486	200	ug/ml
Aliphatic C16-C21	10.212	13.587	581676	4.002	300	ug/ml
Aliphatic C21-C28	13.588	17.257	1085255	7.633	400	ug/ml
Aliphatic C28-C40	17.258	22.153	3863189	29.936	600	ug/ml
Aliphatic EPH	3.119	22.153	6692230	49.829		ug/ml
ortho-Terphenyl (SURR)	11.874	11.874	6545712	36.29		ug/ml
1-chlorooctadecane (SURR)	13.319	13.319	5294757	39.17		ug/ml
Aliphatic C9-C28	3.119	17.257	2829041	19.894	1200	ug/ml