

Report of Analysis

Client:	PSEG	Date Collected:	05/23/25
Project:	Hamilton M&R	Date Received:	05/23/25
Client Sample ID:	EPH-1-F	SDG No.:	Q2127
Lab Sample ID:	Q2127-07	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.8
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
05/27/25 08:50	05/27/25 17:49	PB168161

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	39.8		1	1.31	2.22	mg/kg FC069012.D
Aliphatic C9-C28	Aliphatic C9-C28	40.6		1	1.01	4.44	mg/kg FC069012.D
Total AliphaticEPH	Total AliphaticEPH	80.4			2.32	6.66	mg/kg
Total EPH	Total EPH	80.4			2.32	6.66	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC069012.D	1	05/27/25	05/27/25	PB168161

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	40.6		1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	39.8		1.31	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	44.3		40 - 140	89%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.5		40 - 140	79%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2127-07	Acq On:	27 May 2025 17:49
Client Sample ID:	EPH-1-F	Operator:	YP/AJ
Data file:	FC069012.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.339	6.639	2925955	27.677	300	ug/ml
Aliphatic C12-C16	6.640	10.038	10530016	103.25	200	ug/ml
Aliphatic C16-C21	10.039	13.403	14310279	146.225	300	ug/ml
Aliphatic C21-C28	13.404	17.067	25403233	270.812	400	ug/ml
Aliphatic C28-C40	17.068	22.058	50760607	537.496	600	ug/ml
Aliphatic EPH	3.339	22.058	103930090	1090		ug/ml
ortho-Terphenyl (SURR)	11.707	11.707	4875772	39.53		ug/ml
1-chlorooctadecane (SURR)	13.139	13.139	3977518	44.34		ug/ml
Aliphatic C9-C28	3.339	17.067	53169483	547.964	1200	ug/ml