

Report of Analysis

Client:	PSEG	Date Collected:	05/23/25
Project:	Hamilton M&R	Date Received:	05/23/25
Client Sample ID:	EPH-2-H	SDG No.:	Q2127
Lab Sample ID:	Q2127-19	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.07	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	05/28/25 17:35	PB168161

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	57.1		5	6.50	11.0	mg/kg FE054054.D
Aliphatic C9-C28	Aliphatic C9-C28	17.5		1	1.00	4.40	mg/kg FE054034.D
Total AliphaticEPH	Total AliphaticEPH	74.6			7.50	15.4	mg/kg
Total EPH	Total EPH	74.6			7.50	15.4	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
FE054034.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	17.5		1.00	4.40	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	49.8	E	1.30	2.20	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	47.1		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.6		40 - 140	83%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2127-19	Acq On:	27 May 2025 22:23
Client Sample ID:	EPH-2-H	Operator:	YP\AJ
Data file:	FE054034.D	Misc:	
Instrument:	FID_E	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.094	6.741	1384383	10.212	300	ug/ml
Aliphatic C12-C16	6.742	10.189	6678402	49.491	200	ug/ml
Aliphatic C16-C21	10.190	13.564	10520054	79.751	300	ug/ml
Aliphatic C21-C28	13.565	17.234	12231413	98.5	400	ug/ml
Aliphatic C28-C40	17.235	22.120	78266718	678.04	600	ug/ml
Aliphatic EPH	3.094	22.120	109080970	915.994		ug/ml
ortho-Terphenyl (SURR)	11.847	11.847	6768608	41.65		ug/ml
1-chlorooctadecane (SURR)	13.292	13.292	5584211	47.1		ug/ml
Aliphatic C9-C28	3.094	17.234	30814252	237.954	1200	ug/ml