

Report of Analysis

Client:	PSEG	Date Collected:	05/23/25
Project:	Hamilton M&R	Date Received:	05/23/25
Client Sample ID:	EPH-1-E	SDG No.:	Q2127
Lab Sample ID:	Q2127-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.3
Sample Wt/Vol:	30.09	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 12:04	PB168161

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	102		10	13.0	22.1	mg/kg FE054044.D
Aliphatic C9-C28	Aliphatic C9-C28	171		10	10.1	44.1	mg/kg FE054044.D
Total AliphaticEPH	Total AliphaticEPH	273			23.1	66.2	mg/kg
Total EPH	Total EPH	273			23.1	66.2	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 :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054026.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	163	E	1.00	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	85.9	E	1.30	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	50.7		40 - 140	101%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.6		40 - 140	75%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2127-06	Acq On:	27 May 2025 18:23
Client Sample ID:	EPH-1-E	Operator:	YP\AJ
Data file:	FE054026.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.094	6.741	5902875	43.543	300	ug/ml
Aliphatic C12-C16	6.742	10.189	41503116	307.564	200	ug/ml
Aliphatic C16-C21	10.190	13.564	116863445	885.928	300	ug/ml
Aliphatic C21-C28	13.565	17.234	120556090	970.841	400	ug/ml
Aliphatic C28-C40	17.235	22.120	134786502	1170	600	ug/ml
Aliphatic EPH	3.094	22.120	419612028	3380		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	6107503	37.58		ug/ml
1-chlorooctadecane (SURR)	13.297	13.297	6007464	50.67		ug/ml
Aliphatic C9-C28	3.094	17.234	284825526	2210	1200	ug/ml