

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	Hamilton M&R	Date Received:	04/17/25
Client Sample ID:	SOIL-2	SDG No.:	Q1830
Lab Sample ID:	Q1830-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.9
Sample Wt/Vol:	30	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/18/25 08:35	04/18/25 17:21	PB167642

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	10.2		1	1.33	2.25	mg/kg
Aliphatic C9-C28	Aliphatic C9-C28	10.3		1	1.02	4.49	mg/kg
Total AliphaticEPH	Total AliphaticEPH	20.5			2.35	6.74	mg/kg
Total EPH	Total EPH	20.5			2.35	6.74	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
FE053419.D	1	04/18/25	04/18/25	PB167642

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	10.3		1.02	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.2		1.33	2.25	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.8		40 - 140	68%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.4		40 - 140	65%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1830-11	Acq On:	18 Apr 2025 17:21
Client Sample ID:	SOIL-2	Operator:	YP\AJ
Data file:	FE053419.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.126	6.766	544295	3.928	300	ug/ml
Aliphatic C12-C16	6.767	10.215	1940843	13.687	200	ug/ml
Aliphatic C16-C21	10.216	13.590	7257762	49.928	300	ug/ml
Aliphatic C21-C28	13.591	17.259	9866290	69.396	400	ug/ml
Aliphatic C28-C40	17.260	22.151	17508309	135.672	600	ug/ml
Aliphatic EPH	3.126	22.151	37117499	272.61		ug/ml
ortho-Terphenyl (SURR)	11.880	11.880	5847909	32.42		ug/ml
1-chlorooctadecane (SURR)	13.324	13.324	4562331	33.75		ug/ml
Aliphatic C9-C28	3.126	17.259	19609190	136.939	1200	ug/ml