

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	Hamilton M&R	Date Received:	04/17/25
Client Sample ID:	SOIL-2A	SDG No.:	Q1830
Lab Sample ID:	Q1830-12	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.2
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
04/18/25 08:35	04/18/25 17:52	PB167642

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	10.6		1	1.31	2.21	mg/kg FE053420.D
Aliphatic C9-C28	Aliphatic C9-C28	13.5		1	1.01	4.44	mg/kg FE053420.D
Total AliphaticEPH	Total AliphaticEPH	24.1			2.32	6.65	mg/kg
Total EPH	Total EPH	24.1			2.32	6.65	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
FE053420.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	13.5		1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.6		1.31	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.5		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.4		40 - 140	65%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1830-12	Acq On:	18 Apr 2025 17:52
Client Sample ID:	SOIL-2A	Operator:	YP\AJ
Data file:	FE053420.D	Misc:	
Instrument:	FID_E	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.126	6.766	797260	5.754	300	ug/ml
Aliphatic C12-C16	6.767	10.215	2539950	17.911	200	ug/ml
Aliphatic C16-C21	10.216	13.590	9516379	65.466	300	ug/ml
Aliphatic C21-C28	13.591	17.259	13314054	93.646	400	ug/ml
Aliphatic C28-C40	17.260	22.151	18551500	143.755	600	ug/ml
Aliphatic EPH	3.126	22.151	44719143	326.532		ug/ml
ortho-Terphenyl (SURR)	11.880	11.880	5848855	32.43		ug/ml
1-chlorooctadecane (SURR)	13.323	13.323	4666531	34.52		ug/ml
Aliphatic C9-C28	3.126	17.259	26167643	182.777	1200	ug/ml