

Report of Analysis

Client:	PSEG	Date Collected:	05/06/25
Project:	Galloping Hills Sub OP	Date Received:	05/06/25
Client Sample ID:	MH-M-EPH	SDG No.:	Q1968
Lab Sample ID:	Q1968-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.5
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/07/25 11:17	05/08/25 10:40	PB167897

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.33	J	1	1.43	2.42	mg/kg	FE053708.D
Aliphatic C9-C28	Aliphatic C9-C28	4.84	U	1	1.10	4.84	mg/kg	FE053708.D
Total AliphaticEPH	Total AliphaticEPH	7.26	U		2.53	7.26	mg/kg	
Total EPH	Total EPH	7.26	U		2.53	7.26	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
FE053708.D	1	05/07/25	05/08/25	PB167897

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.10	4.84	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.33	J	1.43	2.42	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.2		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.9		40 - 140	50%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1968-06	Acq On:	08 May 2025 10:40
Client Sample ID:	MH-M-EPH	Operator:	YP\AJ
Data file:	FE053708.D	Misc:	
Instrument:	FID_E	ALS Vial:	6
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.109	6.750	472330	3.409	300	ug/ml
Aliphatic C12-C16	6.751	10.198	578058	4.076	200	ug/ml
Aliphatic C16-C21	10.199	13.573	346996	2.387	300	ug/ml
Aliphatic C21-C28	13.574	17.241	714988	5.029	400	ug/ml
Aliphatic C28-C40	17.242	22.125	3736243	28.952	600	ug/ml
Aliphatic EPH	3.109	22.125	5848615	43.853		ug/ml
ortho-Terphenyl (SURR)	11.861	11.861	4491757	24.9		ug/ml
1-chlorooctadecane (SURR)	13.306	13.306	4078256	30.17		ug/ml
Aliphatic C9-C28	3.109	17.241	2112372	14.901	1200	ug/ml