

Report of Analysis

Client:	PSEG	Date Collected:	06/20/25
Project:	Somerset Headquarters	Date Received:	06/20/25
Client Sample ID:	RT-5376-E2	SDG No.:	Q2383
Lab Sample ID:	Q2383-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.7
Sample Wt/Vol:	5.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/23/25 09:25	06/24/25 11:06	PB168581

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	29400		500	3690	6260	mg/kg FE054566.D
Aliphatic C9-C28	Aliphatic C9-C28	109000		500	2850	12500	mg/kg FE054566.D
Total AliphaticEPH	Total AliphaticEPH	139000			6540	18800	mg/kg
Total EPH	Total EPH	139000			6540	18800	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
FE054552.D	1	06/23/25	06/23/25	PB168581

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	115000	E	5.70	25.0	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	33000	E	7.39	12.5	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	0.00		40 - 140	0%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2383-02	Acq On:	23 Jun 2025 21:31
Client Sample ID:	RT-5376-E2	Operator:	YP\AJ
Data file:	FE054552.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	3.072	6.718	16995180	135.684	300	ug/ml
Aliphatic C12-C16	6.719	10.166	85463832	651.641	200	ug/ml
Aliphatic C16-C21	10.167	13.539	2664556570	19900	300	ug/ml
Aliphatic C21-C28	13.540	17.209	32355027837	255000	400	ug/ml
Aliphatic C28-C40	17.210	22.077	10128167831	79000	600	ug/ml
Aliphatic EPH	3.072	22.077	45250211250	354000		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	0.000	0.000	0	0		ug/ml
Aliphatic C9-C28	3.072	17.209	35122043419	275000	1200	ug/ml