

Report of Analysis

Client:	PSEG	Date Collected:	10/02/25
Project:	Somerset HQ	Date Received:	10/02/25
Client Sample ID:	72-11929	SDG No.:	Q3271
Lab Sample ID:	Q3271-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.1
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
10/03/25 09:40	10/03/25 23:22	PB169970

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	34.9		1	1.31	2.22	mg/kg	FE056180.D
Aliphatic C9-C28	Aliphatic C9-C28	4.38	J	1	1.01	4.44	mg/kg	FE056180.D
Total AliphaticEPH	Total AliphaticEPH	39.3			2.32	6.66	mg/kg	
Total EPH	Total EPH	39.3			2.32	6.66	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE056180.D	1	10/03/25	10/03/25	PB169970

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.38	J	1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.9		1.31	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	24.1		40 - 140	48%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	22.6		40 - 140	45%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3271-01	Acq On:	03 Oct 2025 23:22
Client Sample ID:	72-11929	Operator:	YP\AJ
Data file:	FE056180.D	Misc:	
Instrument:	FID_E	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.311	6.944	396661	2.833	300	ug/ml
Aliphatic C12-C16	6.945	10.393	779685	5.083	200	ug/ml
Aliphatic C16-C21	10.394	13.770	2269287	13.68	300	ug/ml
Aliphatic C21-C28	13.771	17.439	5605916	37.743	400	ug/ml
Aliphatic C28-C40	17.440	22.443	64368579	472.423	600	ug/ml
Aliphatic EPH	3.311	22.443	73420128	531.763		ug/ml
ortho-Terphenyl (SURR)	12.067	12.067	4234401	22.57		ug/ml
1-chlorooctadecane (SURR)	13.504	13.504	3368478	24.14		ug/ml
Aliphatic C9-C28	3.311	17.439	9051549	59.339	1200	ug/ml