

Report of Analysis

Client:	PSEG	Date Collected:	10/28/25
Project:	South Mahwah Switch	Date Received:	10/28/25
Client Sample ID:	SOUTH-MAHWAH-SOIL	SDG No.:	Q3477
Lab Sample ID:	Q3477-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.9
Sample Wt/Vol:	30.04 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	10/29/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	7.94		1	1.34	2.27	mg/kg	FC070075.D	10/29/25 14:49	PB170307
Aliphatic C9-C28	Aliphatic C9-C28	1.66	J	1	1.03	4.55	mg/kg	FC070075.D	10/29/25 14:49	PB170307
Total AliphaticEPH	Total AliphaticEPH	9.60			2.37	6.82	mg/kg			
Total EPH	Total EPH	9.60			2.37	6.82	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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CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	1.66	J	1	1.03	4.55	mg/kg	10/29/25	PB170307
Aliphatic C28-C40	Aliphatic C28-C40	7.94		1	1.34	2.27	mg/kg	10/29/25	PB170307
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	49.1			40 - 140	98%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	45.0			40 - 140	90%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3477-01	Acq On:	29 Oct 2025 14:49
Client Sample ID:	SOUTH-MAHWAH-SOIL	Operator:	YP/AJ
Data file:	FC070075.D	Misc:	
Instrument:	FID_C	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.281	6.573	563540	3.892	300	ug/ml
Aliphatic C12-C16	6.574	9.973	829412	5.064	200	ug/ml
Aliphatic C16-C21	9.974	13.341	717597	4.431	300	ug/ml
Aliphatic C21-C28	13.342	17.005	1247917	8.481	400	ug/ml
Aliphatic C28-C40	17.006	21.961	11276736	104.803	600	ug/ml
Aliphatic EPH	3.281	21.961	14635202	126.671		ug/ml
ortho-Terphenyl (SURR)	11.644	11.644	7906915	45.03		ug/ml
1-chlorooctadecane (SURR)	13.078	13.078	6665420	49.1		ug/ml
Aliphatic C9-C28	3.281	17.005	3358466	21.868	1200	ug/ml