

Report of Analysis

Client:	PSEG	Date Collected:	11/04/25
Project:	PSEG Waldwick Substation	Date Received:	11/04/25
Client Sample ID:	MW-17-SOIL	SDG No.:	Q3537
Lab Sample ID:	Q3537-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.4
Sample Wt/Vol:	30.09 g	Test:	EPH_NF
Prep Method :		Final Vol:	2000 uL
		Prep Date :	11/05/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	9.07		1	1.38	2.33	mg/kg	FE056679.D	11/05/25 18:39	PB170401
Aliphatic C9-C28	Aliphatic C9-C28	8.42		1	1.06	4.68	mg/kg	FE056679.D	11/05/25 18:39	PB170401
Total AliphaticEPH	Total AliphaticEPH	17.5			2.44	7.01	mg/kg			
Total EPH	Total EPH	17.5			2.44	7.01	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	8.42	1		1.06	4.68	mg/kg	11/05/25	PB170401
Aliphatic C28-C40	Aliphatic C28-C40	9.07	1		1.38	2.33	mg/kg	11/05/25	PB170401
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	41.9			40 - 140	84%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	41.5			40 - 140	83%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3537-01	Acq On:	05 Nov 2025 18:39
Client Sample ID:	MW-17-SOIL	Operator:	YP\AJ
Data file:	FE056679.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	3.223	6.851	636416	3.718	300	ug/ml
Aliphatic C12-C16	6.852	10.300	1135883	6.354	200	ug/ml
Aliphatic C16-C21	10.301	13.678	16782284	89.983	300	ug/ml
Aliphatic C21-C28	13.679	17.350	1565360	8.121	400	ug/ml
Aliphatic C28-C40	17.351	22.302	18555803	116.473	600	ug/ml
Aliphatic EPH	3.223	22.302	38675746	224.649		ug/ml
ortho-Terphenyl (SURR)	11.973	11.973	8676881	41.53		ug/ml
1-chlorooctadecane (SURR)	13.412	13.412	6748485	41.89		ug/ml
Aliphatic C9-C28	3.223	17.350	20119943	108.176	1200	ug/ml