284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	PSEG		Date Collected:	05/20/25	
Project:	Waldwick Substation		Date Received:	05/20/25	
Client Sample ID:	RT3419		SDG No.:	Q2097	
Lab Sample ID:	Q2097-11		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	94.1	
Sample Wt/Vol:	30.01	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
05/21/25 09:30	05/21/25 21:16	PB168103

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	7.37		1	1.25	2.12	mg/kg	FC068969.D
Aliphatic C9-C28	Aliphatic C9-C28	1000		20	19.4	84.9	mg/kg	FC068977.D
Total AliphaticEPH	Total AliphaticEPH	1010			20.6	87.0	mg/kg	
Total EPH	Total EPH	1010			20.6	87.0	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
FC068969.D	1	05/21/25	05/21/25	PB168103

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C28	Aliphatic C9-C28		887	E	0.97	4.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		7.37		1.25	2.12	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		51.0		40 - 140	102%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		46.5		40 - 140	93%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2097-11	Acq On:	21 May 2025 21:16
Client Sample ID:	RT3419	Operator:	YP/AJ
Data file:	FC068969.D	Misc:	
Instrument:	FID_C	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.341	6.640	417907	4.216	300	ug/ml
Aliphatic C12-C16	6.641	10.039	129897325	1430	200	ug/ml
Aliphatic C16-C21	10.040	13.405	713356959	8320	300	ug/ml
Aliphatic C21-C28	13.406	17.068	231576803	2790	400	ug/ml
Aliphatic C28-C40	17.069	22.060	8803862	104.037	600	ug/ml
Aliphatic EPH	3.341	22.060	1084052856	12600		ug/ml
ortho-Terphenyl (SURR)	11.722	11.722	5311955	46.54		ug/ml
1-chlorooctadecane (SURR)	13.152	13.152	4095760	51.05		ug/ml
Aliphatic C9-C28	3.341	17.068	1075248994	12500	1200	ug/ml