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

Report of Analysis

Client:	PSEG		Date Collected:	02/08/25	
Project:	Cliffs Substation		Date Received:	02/10/25	
Client Sample ID:	SOIL-1		SDG No.:	Q1344	
Lab Sample ID:	Q1344-01		Matrix:	Solid	
Analytical Method:	NJEPH		% Solid:	90.2	
Sample Wt/Vol:	30.09	Units: g	Final Vol:	2000	uL
Soil Aliquot Vol:		uL	Test:	EPH_NF	
Prep Method :					

Prep Date :	Date Analyzed :	Prep Batch ID
02/10/25 08:27	02/11/25 4:52	PB166637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	3.30		1	1.99	2.21	mg/kg	FE052339.D
Aliphatic C9-C28	Aliphatic C9-C28	9.15		1	1.90	4.43	mg/kg	FE052339.D
Total AliphaticEPH	Total AliphaticEPH	12.4			3.89	6.64	mg/kg	
Total EPH	Total EPH	12.4			3.89	6.64	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
FE052339.D	1	02/10/25	02/11/25	PB166637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	9.15		1.90	4.43	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.30		1.99	2.21	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.0		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.1		40 - 140	74%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1344-01	Acq On:	11 Feb 2025 04:52
Client Sample ID:	SOIL-1	Operator:	YP\AJ
Data file:	FE052339.D	Misc:	
Instrument:	FID_E	ALS Vial:	31
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.682	7.240	913131	9.494	300	ug/ml
Aliphatic C12-C16	7.241	10.644	1488812	14.218	200	ug/ml
Aliphatic C16-C21	10.645	13.990	5766913	51.025	300	ug/ml
Aliphatic C21-C28	13.991	17.632	5635482	49.435	400	ug/ml
Aliphatic C28-C40	17.633	22.724	4101144	44.795	600	ug/ml
Aliphatic EPH	3.682	22.724	17905482	168.966		ug/ml
ortho-Terphenyl (SURR)	12.314	12.314	4595613	37.13		ug/ml
1-chlorooctadecane (SURR)	13.725	13.725	3754963	38.05		ug/ml
Aliphatic C9-C28	3.682	17.632	13804338	124.172	1200	ug/ml