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

Report of Analysis

Client:	PSEG	Date Collected:	02/07/25
Project:	Raritan Valley Substation	Date Received:	02/07/25
Client Sample ID:	RV-SOIL-E2	SDG No.:	Q1340
Lab Sample ID:	Q1340-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.2
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
02/10/25 08:27	02/10/25 18:57	PB166637

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.04		1	2.19	2.43	mg/kg	FE052324.D
Aliphatic C9-C28	Aliphatic C9-C28	4.94		1	2.09	4.87	mg/kg	FE052324.D
Total AliphaticEPH	Total AliphaticEPH	9.98			4.28	7.30	mg/kg	
Total EPH	Total EPH	9.98			4.28	7.30	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
FE052324.D	1	02/10/25	02/10/25	PB166637

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.94		2.09	4.87	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.04		2.19	2.43	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.6		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.9		40 - 140	80%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1340-02	Acq On:	10 Feb 2025 18:57
Client Sample ID:	RV-SOIL-E2	Operator:	YP\AJ
Data file:	FE052324.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.682	7.240	952878	9.907	300	ug/ml
Aliphatic C12-C16	7.241	10.644	990090	9.455	200	ug/ml
Aliphatic C16-C21	10.645	13.990	4698532	41.572	300	ug/ml
Aliphatic C21-C28	13.991	17.632	1218558	10.689	400	ug/ml
Aliphatic C28-C40	17.633	22.724	5692025	62.172	600	ug/ml
Aliphatic EPH	3.682	22.724	13552083	133.794		ug/ml
ortho-Terphenyl (SURR)	12.311	12.311	4936121	39.88		ug/ml
1-chlorooctadecane (SURR)	13.724	13.724	4103376	41.58		ug/ml
Aliphatic C9-C28	3.682	17.632	7860058	71.623	1200	ug/ml