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

Report of Analysis

Client:	PSEG	Date Collected:	12/18/24
Project:	Kingsland Substation	Date Received:	12/18/24
Client Sample ID:	RB21198-E2	SDG No.:	P5342
Lab Sample ID:	P5342-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	73.7
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
12/19/24 09:10	12/20/24 10:31	PB165749

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	280		10	24.4	27.1	mg/kg	FE051734.D
Aliphatic C9-C28	Aliphatic C9-C28	2320		50	117	271	mg/kg	FE051735.D
Total AliphaticEPH	Total AliphaticEPH	2600			141	298	mg/kg	
Total EPH	Total EPH	2600			141	298	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
FE051719.D	1	12/19/24	12/19/24	PB165749

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2390	E	2.33	5.43	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	278	E	2.44	2.71	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.5		40 - 140	65%	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:	P5342-06	Acq On:	19 Dec 2024 18:01
Client Sample ID:	RB21198-E2	Operator:	YP\AJ
Data file:	FE051719.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	3.381	6.952	863308	6.92	300	ug/ml
Aliphatic C12-C16	6.953	10.358	431565091	3120	200	ug/ml
Aliphatic C16-C21	10.359	13.700	2078803295	14400	300	ug/ml
Aliphatic C21-C28	13.701	17.331	1226090677	8990	400	ug/ml
Aliphatic C28-C40	17.332	22.209	334684752	3080	600	ug/ml
Aliphatic EPH	3.381	22.209	4072007123	29600		ug/ml
ortho-Terphenyl (SURR)	12.041	12.041	7472675	46.55		ug/ml
1-chlorooctadecane (SURR)	13.469	13.469	4094947	32.46		ug/ml
Aliphatic C9-C28	3.381	17.331	3737322371	26600	1200	ug/ml