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

Report of Analysis

Client:	PSEG	Date Collected:	06/13/25
Project:	Kingsland Substation	Date Received:	06/13/25
Client Sample ID:	CHRT25653-E2	SDG No.:	Q2328
Lab Sample ID:	Q2328-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	78.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/16/25 08:50	06/16/25 13:46	PB168485

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	43.1		1	1.50	2.55	mg/kg	FE054402.D
Aliphatic C9-C28	Aliphatic C9-C28	1260		25	29.0	127	mg/kg	FE054404.D
Total AliphaticEPH	Total AliphaticEPH	1300			30.5	130	mg/kg	
Total EPH	Total EPH	1300			30.5	130	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
FE054402.D	1	06/16/25	06/16/25	PB168485

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C28	Aliphatic C9-C28		1270	E	1.16	5.09	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		43.1		1.50	2.55	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		45.2		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		55.3		40 - 140	111%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2328-02	Acq On:	16 Jun 2025 13:46
Client Sample ID:	CHRT25653-E2	Operator:	YP\AJ
Data file:	FE054402.D	Misc:	
Instrument:	FID_E	ALS Vial:	8
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.075	6.719	2638138	21.062	300	ug/ml
Aliphatic C12-C16	6.720	10.165	149594021	1140	200	ug/ml
Aliphatic C16-C21	10.166	13.538	1377806704	10300	300	ug/ml
Aliphatic C21-C28	13.539	17.207	453792330	3570	400	ug/ml
Aliphatic C28-C40	17.208	22.075	65153523	508.038	600	ug/ml
Aliphatic EPH	3.075	22.075	2048984716	15500		ug/ml
ortho-Terphenyl (SURR)	11.847	11.847	9131861	55.27		ug/ml
1-chlorooctadecane (SURR)	13.295	13.295	5509465	45.18		ug/ml
Aliphatic C9-C28	3.075	17.207	1983831193	15000	1200	ug/ml