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

Report of Analysis

Client:	PSEG	Date Collected:	07/10/25
Project:	Burlington Switching Station	Date Received:	07/10/25
Client Sample ID:	ARS20-0030	SDG No.:	Q2564
Lab Sample ID:	Q2564-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.1
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/11/25 09:20	07/11/25 16:50	PB168812

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	Datafile
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	14.5		1	1.24	2.10	mg/kg	FE054814.D
Aliphatic C9-C28	Aliphatic C9-C28	203		10	9.57	42.0	mg/kg	FE054837.D
Total AliphaticEPH	Total AliphaticEPH	217			10.8	44.1	mg/kg	
Total EPH	Total EPH	217			10.8	44.1	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
FE054814.D	1	07/11/25	07/11/25	PB168812

CAS Number	Parameter		Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C28	Aliphatic C9-C28		179	E	0.96	4.20	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40		14.5		1.24	2.10	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)		29.9		40 - 140	60%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)		33.3		40 - 140	66%	SPK: 50

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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2564-01	Acq On:	11 Jul 2025 16:50
Client Sample ID:	ARS20-0030	Operator:	YP\AJ
Data file:	FE054814.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.321	6.954	485964	3.572	300	ug/ml
Aliphatic C12-C16	6.955	10.407	25875445	184.078	200	ug/ml
Aliphatic C16-C21	10.408	13.785	253197003	1750	300	ug/ml
Aliphatic C21-C28	13.786	17.455	89759159	620.519	400	ug/ml
Aliphatic C28-C40	17.456	22.481	28786679	207.625	600	ug/ml
Aliphatic EPH	3.321	22.481	398104250	2770		ug/ml
ortho-Terphenyl (SURR)	12.085	12.085	5399252	33.25		ug/ml
1-chlorooctadecane (SURR)	13.522	13.522	3778630	29.92		ug/ml
Aliphatic C9-C28	3.321	17.455	369317571	2560	1200	ug/ml