

Report of Analysis

Client:	PSEG	Date Collected:	04/07/25
Project:	Ironbound Substation - Emmet	Date Received:	04/07/25
Client Sample ID:	IB-6A-EPH	SDG No.:	Q1745
Lab Sample ID:	Q1745-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84.1
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/08/25 10:10	04/08/25 23:09	PB167512

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	29.1		1	1.40	2.37	mg/kg FE053251.D
Aliphatic C9-C28	Aliphatic C9-C28	23.8		1	1.08	4.75	mg/kg FE053251.D
Total AliphaticEPH	Total AliphaticEPH	52.9			2.48	7.12	mg/kg
Total EPH	Total EPH	52.9			2.48	7.12	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053251.D	1	04/08/25	04/08/25	PB167512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	23.8		1.08	4.75	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	29.1		1.40	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.6		40 - 140	73%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.5		40 - 140	67%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1745-02	Acq On:	08 Apr 2025 23:09
Client Sample ID:	IB-6A-EPH	Operator:	YP\AJ
Data file:	FE053251.D	Misc:	
Instrument:	FID_E	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.139	6.782	1233982	7.909	300	ug/ml
Aliphatic C12-C16	6.783	10.234	3151344	20.512	200	ug/ml
Aliphatic C16-C21	10.235	13.613	9141191	63.332	300	ug/ml
Aliphatic C21-C28	13.614	17.285	27986486	208.314	400	ug/ml
Aliphatic C28-C40	17.286	22.199	45655912	367.432	600	ug/ml
Aliphatic EPH	3.139	22.199	87168915	667.5		ug/ml
ortho-Terphenyl (SURR)	11.893	11.893	5460678	33.53		ug/ml
1-chlorooctadecane (SURR)	13.338	13.338	4398957	36.64		ug/ml
Aliphatic C9-C28	3.139	17.285	41513003	300.067	1200	ug/ml