

Report of Analysis

Client:	PSEG	Date Collected:	04/07/25
Project:	Ironbound Substation - Emmet	Date Received:	04/07/25
Client Sample ID:	IB-6.5-EPH	SDG No.:	Q1745
Lab Sample ID:	Q1745-10	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	71
Sample Wt/Vol:	30.06	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	04/09/25 0:09	PB167512

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	13.7		1	1.66	2.81	mg/kg FE053253.D
Aliphatic C9-C28	Aliphatic C9-C28	9.49		1	1.28	5.63	mg/kg FE053253.D
Total AliphaticEPH	Total AliphaticEPH	23.2			2.94	8.44	mg/kg
Total EPH	Total EPH	23.2			2.94	8.44	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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Analytical Method:	NJEPH	% Solid:	71
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053253.D	1	04/08/25	04/09/25	PB167512

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	9.49		1.28	5.63	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	13.7		1.66	2.81	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.1		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.3		40 - 140	65%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1745-10	Acq On:	09 Apr 2025 00:09
Client Sample ID:	IB-6.5-EPH	Operator:	YP\AJ
Data file:	FE053253.D	Misc:	
Instrument:	FID_E	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.139	6.782	1027692	6.586	300	ug/ml
Aliphatic C12-C16	6.783	10.234	2402720	15.64	200	ug/ml
Aliphatic C16-C21	10.235	13.613	4601866	31.883	300	ug/ml
Aliphatic C21-C28	13.614	17.285	6317999	47.027	400	ug/ml
Aliphatic C28-C40	17.286	22.199	18147541	146.049	600	ug/ml
Aliphatic EPH	3.139	22.199	32497818	247.185		ug/ml
ortho-Terphenyl (SURR)	11.892	11.892	5265052	32.32		ug/ml
1-chlorooctadecane (SURR)	13.336	13.336	3977299	33.13		ug/ml
Aliphatic C9-C28	3.139	17.285	14350277	101.136	1200	ug/ml