

Report of Analysis

Client:	PSEG	Date Collected:	04/08/25
Project:	Ironbound Substation - Emmet	Date Received:	04/08/25
Client Sample ID:	IB-2A-EPH	SDG No.:	Q1748
Lab Sample ID:	Q1748-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	81.2
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/09/25 09:51	04/09/25 16:59	PB167528

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	13.7		1	1.45	2.46	mg/kg
Aliphatic C9-C28	Aliphatic C9-C28	5.50		1	1.12	4.92	mg/kg
Total AliphaticEPH	Total AliphaticEPH	19.2			2.57	7.38	mg/kg
Total EPH	Total EPH	19.2			2.57	7.38	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
FE053281.D	1	04/09/25	04/09/25	PB167528

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.50		1.12	4.92	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	13.7		1.45	2.46	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.9		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.8		40 - 140	66%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1748-06	Acq On:	09 Apr 2025 16:59
Client Sample ID:	IB-2A-EPH	Operator:	YP\AJ
Data file:	FE053281.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.135	6.774	1213581	7.778	300	ug/ml
Aliphatic C12-C16	6.775	10.223	1675113	10.903	200	ug/ml
Aliphatic C16-C21	10.224	13.598	3076077	21.312	300	ug/ml
Aliphatic C21-C28	13.599	17.267	3633671	27.047	400	ug/ml
Aliphatic C28-C40	17.268	22.161	20803088	167.42	600	ug/ml
Aliphatic EPH	3.135	22.161	30401530	234.46		ug/ml
ortho-Terphenyl (SURR)	11.888	11.888	5348854	32.84		ug/ml
1-chlorooctadecane (SURR)	13.331	13.331	4183524	34.85		ug/ml
Aliphatic C9-C28	3.135	17.267	9598442	67.04	1200	ug/ml