

Report of Analysis

Client:	PSEG	Date Collected:	06/02/25
Project:	BU-703 Willingboro	Date Received:	06/04/25
Client Sample ID:	BU-703-12B	SDG No.:	Q2207
Lab Sample ID:	Q2207-35	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.5
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
06/05/25 10:10	06/05/25 21:48	PB168301

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	4.49		1	1.33	2.26	mg/kg FE054205.D
Aliphatic C9-C28	Aliphatic C9-C28	6.23		1	1.03	4.51	mg/kg FE054205.D
Total AliphaticEPH	Total AliphaticEPH	10.7			2.36	6.77	mg/kg
Total EPH	Total EPH	10.7			2.36	6.77	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
FE054205.D	1	06/05/25	06/05/25	PB168301

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	6.23		1.03	4.51	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.49		1.33	2.26	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	69.6		40 - 140	139%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	63.0		40 - 140	126%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2207-35	Acq On:	05 Jun 2025 21:48
Client Sample ID:	BU-703-12B	Operator:	YP\AJ
Data file:	FE054205.D	Misc:	
Instrument:	FID_E	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.084	6.729	254170	1.875	300	ug/ml
Aliphatic C12-C16	6.730	10.176	901014	6.677	200	ug/ml
Aliphatic C16-C21	10.177	13.550	8840211	67.017	300	ug/ml
Aliphatic C21-C28	13.551	17.218	1138941	9.172	400	ug/ml
Aliphatic C28-C40	17.219	22.088	6881938	59.62	600	ug/ml
Aliphatic EPH	3.084	22.088	18016274	144.36		ug/ml
ortho-Terphenyl (SURR)	11.838	11.838	10235092	62.98		ug/ml
1-chlorooctadecane (SURR)	13.283	13.283	8250221	69.59		ug/ml
Aliphatic C9-C28	3.084	17.218	11134336	84.741	1200	ug/ml