

Report of Analysis

Client:	PSEG	Date Collected:	06/02/25
Project:	BU-703 Willingboro	Date Received:	06/04/25
Client Sample ID:	BU-703-23A	SDG No.:	Q2208
Lab Sample ID:	Q2208-23	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
06/06/25 09:00	06/06/25 13:49	PB168308

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	13.2		1	1.40	2.37	mg/kg	FE054217.D
Aliphatic C9-C28	Aliphatic C9-C28	1.90	J	1	1.08	4.75	mg/kg	FE054217.D
Total AliphaticEPH	Total AliphaticEPH	15.1			2.48	7.12	mg/kg	
Total EPH	Total EPH	15.1			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
FE054217.D	1	06/06/25	06/06/25	PB168308

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.90	J	1.08	4.75	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	13.2		1.40	2.37	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	52.0		40 - 140	104%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	47.1		40 - 140	94%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2208-23	Acq On:	06 Jun 2025 13:49
Client Sample ID:	BU-703-23A	Operator:	YP\AJ
Data file:	FE054217.D	Misc:	
Instrument:	FID_E	ALS Vial:	7
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.080	6.725	214256	1.58	300	ug/ml
Aliphatic C12-C16	6.726	10.172	873783	6.475	200	ug/ml
Aliphatic C16-C21	10.173	13.547	684439	5.189	300	ug/ml
Aliphatic C21-C28	13.548	17.214	1537210	12.379	400	ug/ml
Aliphatic C28-C40	17.215	22.084	19307987	167.269	600	ug/ml
Aliphatic EPH	3.080	22.084	22617675	192.893		ug/ml
ortho-Terphenyl (SURR)	11.836	11.836	7654946	47.1		ug/ml
1-chlorooctadecane (SURR)	13.281	13.281	6158078	51.95		ug/ml
Aliphatic C9-C28	3.080	17.214	3309688	25.623	1200	ug/ml