

Report of Analysis

Client:	PSEG	Date Collected:	06/02/25
Project:	BU-703 Willingboro	Date Received:	06/04/25
Client Sample ID:	BU-703-16B	SDG No.:	Q2208
Lab Sample ID:	Q2208-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
06/05/25 10:10	06/05/25 22:20	PB168301

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.08		1	1.36	2.31	mg/kg	FG015948.D
Aliphatic C9-C28	Aliphatic C9-C28	4.61	U	1	1.05	4.61	mg/kg	FG015948.D
Total AliphaticEPH	Total AliphaticEPH	5.08	J		2.41	6.92	mg/kg	
Total EPH	Total EPH	5.08	J		2.41	6.92	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015948.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	0.000	U	1.05	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.08		1.36	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.9		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.2		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2208-04	Acq On:	05 Jun 2025 22:20
Client Sample ID:	BU-703-16B	Operator:	YP\AJ
Data file:	FG015948.D	Misc:	
Instrument:	FID_G	ALS Vial:	34
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.120	6.765	229587	2.022	300	ug/ml
Aliphatic C12-C16	6.766	10.215	678803	5.815	200	ug/ml
Aliphatic C16-C21	10.216	13.591	322434	2.639	300	ug/ml
Aliphatic C21-C28	13.592	17.262	586703	4.883	400	ug/ml
Aliphatic C28-C40	17.263	22.162	7301223	66.114	600	ug/ml
Aliphatic EPH	3.120	22.162	9118750	81.474		ug/ml
ortho-Terphenyl (SURR)	11.876	11.876	4492168	30.17		ug/ml
1-chlorooctadecane (SURR)	13.321	13.321	3794425	32.94		ug/ml
Aliphatic C9-C28	3.120	17.262	1817527	15.359	1200	ug/ml