

Report of Analysis

Client:	PSEG	Date Collected:	09/15/25
Project:	Bayonne Switching Station	Date Received:	09/15/25
Client Sample ID:	FREEZE-PIT-SAMPLES	SDG No.:	Q3105
Lab Sample ID:	Q3105-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.8
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
09/16/25 09:50	09/16/25 17:24	PB169702

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	9.07		1	1.31	2.22	mg/kg	FE055853.D
Aliphatic C9-C28	Aliphatic C9-C28	7.17		1	1.01	4.44	mg/kg	FE055853.D
Total AliphaticEPH	Total AliphaticEPH	16.2			2.32	6.66	mg/kg	
Total EPH	Total EPH	16.2			2.32	6.66	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
FE055853.D	1	09/16/25	09/16/25	PB169702

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	7.17		1.01	4.44	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.07		1.31	2.22	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.1		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.7		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3105-01	Acq On:	16 Sep 2025 17:24
Client Sample ID:	FREEZE-PIT-SAMPLES	Operator:	YP\AJ
Data file:	FE055853.D	Misc:	
Instrument:	FID_E	ALS Vial:	9
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.310	6.941	484276	3.772	300	ug/ml
Aliphatic C12-C16	6.942	10.393	899921	6.661	200	ug/ml
Aliphatic C16-C21	10.394	13.770	11098507	76.957	300	ug/ml
Aliphatic C21-C28	13.771	17.442	1350558	9.429	400	ug/ml
Aliphatic C28-C40	17.443	22.546	16862337	122.44	600	ug/ml
Aliphatic EPH	3.310	22.546	30695599	219.258		ug/ml
ortho-Terphenyl (SURR)	12.070	12.070	5696428	34.67		ug/ml
1-chlorooctadecane (SURR)	13.507	13.507	4633848	37.06		ug/ml
Aliphatic C9-C28	3.310	17.442	13833262	96.819	1200	ug/ml