

Report of Analysis

Client:	PSEG	Date Collected:	05/13/25
Project:	Central Gas Plant	Date Received:	05/13/25
Client Sample ID:	COMP-1-EPH	SDG No.:	Q2022
Lab Sample ID:	Q2022-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	69.8
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/14/25 09:30	05/14/25 17:14	PB167999

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	4.64		1	1.69	2.86	mg/kg	FE053821.D
Aliphatic C9-C28	Aliphatic C9-C28	2.79	J	1	1.30	5.72	mg/kg	FE053821.D
Total AliphaticEPH	Total AliphaticEPH	7.43	J		2.99	8.58	mg/kg	
Total EPH	Total EPH	7.43	J		2.99	8.58	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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Analytical Method:	NJEPH	% Solid:	69.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053821.D	1	05/14/25	05/14/25	PB167999

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.79	J	1.30	5.72	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.64		1.69	2.86	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	54.0		40 - 140	108%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	50.4		40 - 140	101%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2022-03	Acq On:	14 May 2025 17:14
Client Sample ID:	COMP-1-EPH	Operator:	YP\AJ
Data file:	FE053821.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.101	6.742	339608	2.505	300	ug/ml
Aliphatic C12-C16	6.743	10.189	732118	5.425	200	ug/ml
Aliphatic C16-C21	10.190	13.562	533979	4.048	300	ug/ml
Aliphatic C21-C28	13.563	17.229	2144416	17.269	400	ug/ml
Aliphatic C28-C40	17.230	22.109	5617457	48.665	600	ug/ml
Aliphatic EPH	3.101	22.109	9367578	77.913		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	8187045	50.38		ug/ml
1-chlorooctadecane (SURR)	13.296	13.296	6402786	54.01		ug/ml
Aliphatic C9-C28	3.101	17.229	3750121	29.247	1200	ug/ml