

Report of Analysis

Client:	PSEG	Date Collected:	07/02/25
Project:	Orange Gas	Date Received:	07/02/25
Client Sample ID:	EO-1-070225-E2	SDG No.:	Q2491
Lab Sample ID:	Q2491-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.2
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
07/03/25 09:30	07/07/25 12:26	PB168723

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	170		10	12.8	21.7	mg/kg	FE054702.D
Aliphatic C9-C28	Aliphatic C9-C28	74.2		1	0.99	4.32	mg/kg	FE054700.D
Total AliphaticEPH	Total AliphaticEPH	244			13.8	26.0	mg/kg	
Total EPH	Total EPH	244			13.8	26.0	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054700.D	1	07/03/25	07/07/25	PB168723

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	74.2		0.99	4.32	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	171	E	1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	30.5		40 - 140	61%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.9		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2491-02	Acq On:	07 Jul 2025 11:25
Client Sample ID:	EO-1-070225-E2	Operator:	YP\AJ
Data file:	FE054700.D	Misc:	
Instrument:	FID_E	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.322	6.953	25955446	190.772	300	ug/ml
Aliphatic C12-C16	6.954	10.404	77849899	553.823	200	ug/ml
Aliphatic C16-C21	10.405	13.782	21323220	147.674	300	ug/ml
Aliphatic C21-C28	13.783	17.452	19386644	134.023	400	ug/ml
Aliphatic C28-C40	17.453	22.469	329055291	2370	600	ug/ml
Aliphatic EPH	3.322	22.469	473570500	3400		ug/ml
ortho-Terphenyl (SURR)	12.082	12.082	4855330	29.9		ug/ml
1-chlorooctadecane (SURR)	13.518	13.518	3851082	30.49		ug/ml
Aliphatic C9-C28	3.322	17.452	144515209	1030	1200	ug/ml