

Report of Analysis

Client:	PSEG	Date Collected:	09/30/25
Project:	Orange Gas	Date Received:	09/30/25
Client Sample ID:	SOIL-PILE-1-WC	SDG No.:	Q3256
Lab Sample ID:	Q3256-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.7
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
10/01/25 08:35	10/02/25 10:12	PB169929

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	15.8		1	1.34	2.28	mg/kg FE056144.D
Aliphatic C9-C28	Aliphatic C9-C28	43.3		1	1.03	4.56	mg/kg FE056144.D
Total AliphaticEPH	Total AliphaticEPH	59.1			2.38	6.84	mg/kg
Total EPH	Total EPH	59.1			2.38	6.84	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
FE056144.D	1	10/01/25	10/02/25	PB169929

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	43.3		1.03	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	15.8		1.34	2.28	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.0		40 - 140	64%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	24.7		40 - 140	49%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3256-01	Acq On:	02 Oct 2025 10:12
Client Sample ID:	SOIL-PILE-1-WC	Operator:	YP\AJ
Data file:	FE056144.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.311	6.945	1208923	8.633	300	ug/ml
Aliphatic C12-C16	6.946	10.395	11826879	77.11	200	ug/ml
Aliphatic C16-C21	10.396	13.772	40888655	246.496	300	ug/ml
Aliphatic C21-C28	13.773	17.442	35406349	238.383	400	ug/ml
Aliphatic C28-C40	17.443	22.448	28375663	208.259	600	ug/ml
Aliphatic EPH	3.311	22.448	117706469	778.881		ug/ml
ortho-Terphenyl (SURR)	12.071	12.071	4635285	24.7		ug/ml
1-chlorooctadecane (SURR)	13.507	13.507	4469824	32.03		ug/ml
Aliphatic C9-C28	3.311	17.442	89330806	570.622	1200	ug/ml