

Report of Analysis

Client:	PSEG	Date Collected:	05/22/25
Project:	Orange Gas and Appliance Service MA00006789	Date Received:	05/22/25
Client Sample ID:	EO-03-05222025-E2	SDG No.:	Q2112
Lab Sample ID:	Q2112-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.6
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/23/25 08:55	05/27/25 10:35	PB168138

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	145		10	12.4	21.1	mg/kg FE054016.D
Aliphatic C9-C28	Aliphatic C9-C28	166		10	9.60	42.1	mg/kg FE054016.D
Total AliphaticEPH	Total AliphaticEPH	311			22.0	63.2	mg/kg
Total EPH	Total EPH	311			22.0	63.2	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
FE054004.D	1	05/23/25	05/23/25	PB168138

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	153	E	0.96	4.21	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	149	E	1.24	2.11	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	69.3		40 - 140	139%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	54.7		40 - 140	109%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2112-02	Acq On:	23 May 2025 17:20
Client Sample ID:	EO-03-05222025-E2	Operator:	YP\AJ
Data file:	FE054004.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.093	6.735	64677559	477.102	300	ug/ml
Aliphatic C12-C16	6.736	10.183	179843857	1330	200	ug/ml
Aliphatic C16-C21	10.184	13.557	34066186	258.252	300	ug/ml
Aliphatic C21-C28	13.558	17.224	13179507	106.135	400	ug/ml
Aliphatic C28-C40	17.225	22.101	245130547	2120	600	ug/ml
Aliphatic EPH	3.093	22.101	536897656	4300		ug/ml
ortho-Terphenyl (SURR)	11.847	11.847	8889993	54.7		ug/ml
1-chlorooctadecane (SURR)	13.292	13.292	8211926	69.27		ug/ml
Aliphatic C9-C28	3.093	17.224	291767109	2170	1200	ug/ml