

Report of Analysis

Client:	PSEG	Date Collected:	10/30/24
Project:	Orange Gas	Date Received:	10/30/24
Client Sample ID:	EO-01-103024-E2	SDG No.:	P4639
Lab Sample ID:	P4639-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.4
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
10/31/24 07:55	11/01/24 10:56	PB164554

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	70.9		2	3.93	4.37	mg/kg FF014898.D
Aliphatic C9-C28	Aliphatic C9-C28	70.0		1	1.88	4.37	mg/kg FF014889.D
Total AliphaticEPH	Total AliphaticEPH	141			5.81	8.74	mg/kg
Total EPH	Total EPH	141			5.81	8.74	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FF014889.D	1	10/31/24	10/31/24	PB164554

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	70.0		1.88	4.37	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	69.6	E	1.97	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	168		40 - 140	336%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.3		40 - 140	55%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4639-02	Acq On:	31 Oct 2024 22:45
Client Sample ID:	EO-01-103024-E2	Operator:	YP\AJ
Data file:	FF014889.D	Misc:	
Instrument:	FID_F	ALS Vial:	77
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.224	6.833	2087878	16.371	300	ug/ml
Aliphatic C12-C16	6.834	10.264	26038435	197.463	200	ug/ml
Aliphatic C16-C21	10.265	13.627	67357415	489.488	300	ug/ml
Aliphatic C21-C28	13.628	17.287	35829868	258.391	400	ug/ml
Aliphatic C28-C40	17.288	22.176	108000688	956.63	600	ug/ml
Aliphatic EPH	3.224	22.176	239314284	1920		ug/ml
ortho-Terphenyl (SURR)	11.929	11.929	4167791	27.33		ug/ml
1-chlorooctadecane (SURR)	13.361	13.361	20193839	168.09		ug/ml
Aliphatic C9-C28	3.224	17.287	131313596	961.713	1200	ug/ml