

Report of Analysis

Client:	PSEG	Date Collected:	05/13/25
Project:	Plainfield Gas and Appliance Service MA0006789	Date Received:	05/13/25
Client Sample ID:	PL-02-051325-E2	SDG No.:	Q2024
Lab Sample ID:	Q2024-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.3
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/14/25 09:30	05/14/25 19:34	PB167999

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.77		1	1.25	2.12	mg/kg	FE053825.D
Aliphatic C9-C28	Aliphatic C9-C28	19.0		1	0.97	4.24	mg/kg	FE053825.D
Total AliphaticEPH	Total AliphaticEPH	25.7			2.21	6.36	mg/kg	
Total EPH	Total EPH	25.7			2.21	6.36	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
FE053825.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	19.0		0.97	4.24	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.77		1.25	2.12	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.6		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.0		40 - 140	84%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2024-02	Acq On:	14 May 2025 19:34
Client Sample ID:	PL-02-051325-E2	Operator:	YP\AJ
Data file:	FE053825.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.101	6.742	313912	2.316	300	ug/ml
Aliphatic C12-C16	6.743	10.189	1339227	9.924	200	ug/ml
Aliphatic C16-C21	10.190	13.562	20501983	155.423	300	ug/ml
Aliphatic C21-C28	13.563	17.229	12493493	100.61	400	ug/ml
Aliphatic C28-C40	17.230	22.109	11054584	95.768	600	ug/ml
Aliphatic EPH	3.101	22.109	45703199	364.042		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	6827345	42.01		ug/ml
1-chlorooctadecane (SURR)	13.297	13.297	5410316	45.64		ug/ml
Aliphatic C9-C28	3.101	17.229	34648615	268.273	1200	ug/ml