

Report of Analysis

Client:	PSEG	Date Collected:	05/20/25
Project:	New Brunswick Gas and Appliance Service MA00006789	Date Received:	05/20/25
Client Sample ID:	NB-08-05202025	SDG No.:	Q2087
Lab Sample ID:	Q2087-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95
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
05/21/25 09:30	05/21/25 17:50	PB168103

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	39.2		1	1.24	2.10	mg/kg	FE053951.D
Aliphatic C9-C28	Aliphatic C9-C28	9.95		1	0.96	4.20	mg/kg	FE053951.D
Total AliphaticEPH	Total AliphaticEPH	49.1			2.20	6.30	mg/kg	
Total EPH	Total EPH	49.1			2.20	6.30	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
FE053951.D	1	05/21/25	05/21/25	PB168103

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	9.95		0.96	4.20	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	39.2		1.24	2.10	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.5		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.6		40 - 140	73%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2087-03	Acq On:	21 May 2025 17:50
Client Sample ID:	NB-08-05202025	Operator:	YP\AJ
Data file:	FE053951.D	Misc:	
Instrument:	FID_E	ALS Vial:	10
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.094	6.735	558592	4.121	300	ug/ml
Aliphatic C12-C16	6.736	10.183	5508286	40.82	200	ug/ml
Aliphatic C16-C21	10.184	13.556	8676163	65.773	300	ug/ml
Aliphatic C21-C28	13.557	17.223	3879985	31.246	400	ug/ml
Aliphatic C28-C40	17.224	22.099	64451972	558.36	600	ug/ml
Aliphatic EPH	3.094	22.099	83074998	700.319		ug/ml
ortho-Terphenyl (SURR)	11.846	11.846	5955073	36.64		ug/ml
1-chlorooctadecane (SURR)	13.291	13.291	4796687	40.46		ug/ml
Aliphatic C9-C28	3.094	17.223	18623026	141.96	1200	ug/ml