

Report of Analysis

Client:	PSEG	Date Collected:	12/27/24
Project:	New Brunswick Gas and Appliance Service MA00006789	Date Received:	12/27/24
Client Sample ID:	NB-07-12272024	SDG No.:	P5391
Lab Sample ID:	P5391-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.1
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
12/30/24 08:10	12/30/24 16:22	PB165899

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	10.1		1	2.02	2.24	mg/kg	FE051811.D
Aliphatic C9-C28	Aliphatic C9-C28	1.93	U	1	1.93	4.48	mg/kg	FE051811.D
Total AliphaticEPH	Total AliphaticEPH	10.1			3.95	6.72	mg/kg	
Total EPH	Total EPH	10.1			3.95	6.72	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
FE051811.D	1	12/30/24	12/30/24	PB165899

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.93	4.48	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	10.1		2.02	2.24	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.0		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.5		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5391-01	Acq On:	30 Dec 2024 16:22
Client Sample ID:	NB-07-12272024	Operator:	YP\AJ
Data file:	FE051811.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.400	6.975	504406	4.181	300	ug/ml
Aliphatic C12-C16	6.976	10.387	742672	5.612	200	ug/ml
Aliphatic C16-C21	10.388	13.733	1008122	7.402	300	ug/ml
Aliphatic C21-C28	13.734	17.373	1189949	9.368	400	ug/ml
Aliphatic C28-C40	17.374	22.296	13532856	135.591	600	ug/ml
Aliphatic EPH	3.400	22.296	16978005	162.154		ug/ml
ortho-Terphenyl (SURR)	12.048	12.048	5228633	34.52		ug/ml
1-chlorooctadecane (SURR)	13.471	13.471	4193172	36.04		ug/ml
Aliphatic C9-C28	3.400	17.373	3445149	26.563	1200	ug/ml