

Report of Analysis

Client:	PSEG	Date Collected:	12/10/24
Project:	New Brunswick Gas and Appliance Service MA00006789	Date Received:	12/10/24
Client Sample ID:	NB-08-121024-E2	SDG No.:	P5244
Lab Sample ID:	P5244-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.5
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
12/11/24 08:51	12/11/24 18:49	PB165545

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	79.1		10	20.8	23.1	mg/kg FE051631.D
Aliphatic C9-C28	Aliphatic C9-C28	769		10	19.9	46.1	mg/kg FE051631.D
Total AliphaticEPH	Total AliphaticEPH	848			40.6	69.2	mg/kg
Total EPH	Total EPH	848			40.6	69.2	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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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051629.D	1	12/11/24	12/11/24	PB165545

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	836	E	1.99	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	70.9	E	2.08	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.8		40 - 140	80%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	48.9		40 - 140	98%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5244-02	Acq On:	11 Dec 2024 17:48
Client Sample ID:	NB-08-121024-E2	Operator:	YP\AJ
Data file:	FE051629.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	3.115	6.731	170812430	1210	300	ug/ml
Aliphatic C12-C16	6.732	10.164	705350107	5010	200	ug/ml
Aliphatic C16-C21	10.165	13.524	549579752	3950	300	ug/ml
Aliphatic C21-C28	13.525	17.179	94150038	719.791	400	ug/ml
Aliphatic C28-C40	17.180	22.013	98667956	921.273	600	ug/ml
Aliphatic EPH	3.115	22.013	1618560283	11800		ug/ml
ortho-Terphenyl (SURR)	11.834	11.834	7382525	48.85		ug/ml
1-chlorooctadecane (SURR)	13.266	13.266	4444112	39.77		ug/ml
Aliphatic C9-C28	3.115	17.179	1519892327	10900	1200	ug/ml