

Report of Analysis

Client:	PSEG	Date Collected:	03/06/25
Project:	Bridgewater Switch	Date Received:	03/06/25
Client Sample ID:	50-MIDDLESEX-AVE-E2	SDG No.:	Q1507
Lab Sample ID:	Q1507-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	82.5
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
03/07/25 09:15	03/07/25 16:53	PB167032

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	16.4		1	2.18	2.42	mg/kg FE052684.D
Aliphatic C9-C28	Aliphatic C9-C28	63.2		1	2.08	4.85	mg/kg FE052684.D
Total AliphaticEPH	Total AliphaticEPH	79.6			4.26	7.27	mg/kg
Total EPH	Total EPH	79.6			4.26	7.27	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
FE052684.D	1	03/07/25	03/07/25	PB167032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	63.2		2.08	4.85	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	16.4		2.18	2.42	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.2		40 - 140	54%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	26.1		40 - 140	52%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1507-02	Acq On:	07 Mar 2025 16:53
Client Sample ID:	50-MIDDLESEX-AVE-E2	Operator:	YP\AJ
Data file:	FE052684.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	959452	6.152	300	ug/ml
Aliphatic C12-C16	6.797	10.250	15046239	98.924	200	ug/ml
Aliphatic C16-C21	10.251	13.630	77709474	530.266	300	ug/ml
Aliphatic C21-C28	13.631	17.303	20947274	147.048	400	ug/ml
Aliphatic C28-C40	17.304	22.224	25842787	202.547	600	ug/ml
Aliphatic EPH	3.151	22.224	140505226	984.938		ug/ml
ortho-Terphenyl (SURR)	11.916	11.916	4405213	26.13		ug/ml
1-chlorooctadecane (SURR)	13.361	13.361	3306431	27.23		ug/ml
Aliphatic C9-C28	3.151	17.303	114662439	782.39	1200	ug/ml