

Report of Analysis

Client:	PSEG	Date Collected:	08/05/25
Project:	Bridgewater Switch	Date Received:	08/05/25
Client Sample ID:	R5	SDG No.:	Q2774
Lab Sample ID:	Q2774-05	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	74.5
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/06/25 09:25	08/06/25 16:36	PB169139

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	40.9		1	1.58	2.68	mg/kg FE055152.D
Aliphatic C9-C28	Aliphatic C9-C28	89.7		1	1.22	5.35	mg/kg FE055152.D
Total AliphaticEPH	Total AliphaticEPH	131			2.80	8.03	mg/kg
Total EPH	Total EPH	131			2.80	8.03	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 :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055152.D	1	08/06/25	08/06/25	PB169139

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	89.7		1.22	5.35	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	40.9		1.58	2.68	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.2		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.8		40 - 140	70%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2774-05	Acq On:	06 Aug 2025 16:36
Client Sample ID:	R5	Operator:	YP\AJ
Data file:	FE055152.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	3.325	6.958	602061	5.155	300	ug/ml
Aliphatic C12-C16	6.959	10.409	6844282	54.655	200	ug/ml
Aliphatic C16-C21	10.410	13.787	88995280	704.049	300	ug/ml
Aliphatic C21-C28	13.788	17.457	29098056	241.466	400	ug/ml
Aliphatic C28-C40	17.458	22.476	52241114	458.307	600	ug/ml
Aliphatic EPH	3.325	22.476	177780793	1460		ug/ml
ortho-Terphenyl (SURR)	12.087	12.087	4969260	34.8		ug/ml
1-chlorooctadecane (SURR)	13.522	13.522	4213971	39.19		ug/ml
Aliphatic C9-C28	3.325	17.457	125539679	1010	1200	ug/ml