

Report of Analysis

Client:	PSEG	Date Collected:	06/20/25
Project:	Bridgewater Switch	Date Received:	06/20/25
Client Sample ID:	291431	SDG No.:	Q2381
Lab Sample ID:	Q2381-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	84
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
06/23/25 09:25	06/23/25 17:56	PB168581

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	25.7		1	1.40	2.38	mg/kg FE054545.D
Aliphatic C9-C28	Aliphatic C9-C28	396		10	10.8	47.5	mg/kg FE054562.D
Total AliphaticEPH	Total AliphaticEPH	421			12.2	49.9	mg/kg
Total EPH	Total EPH	421			12.2	49.9	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
FE054545.D	1	06/23/25	06/23/25	PB168581

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	369	E	1.08	4.75	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	25.7		1.40	2.38	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.6		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	46.1		40 - 140	92%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2381-01	Acq On:	23 Jun 2025 17:56
Client Sample ID:	291431	Operator:	YP\AJ
Data file:	FE054545.D	Misc:	
Instrument:	FID_E	ALS Vial:	13
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.072	6.718	1912192	15.266	300	ug/ml
Aliphatic C12-C16	6.719	10.166	120186645	916.394	200	ug/ml
Aliphatic C16-C21	10.167	13.539	409651363	3060	300	ug/ml
Aliphatic C21-C28	13.540	17.209	85282527	671.152	400	ug/ml
Aliphatic C28-C40	17.210	22.077	41703996	325.189	600	ug/ml
Aliphatic EPH	3.072	22.077	658736723	4990		ug/ml
ortho-Terphenyl (SURR)	11.832	11.832	7612995	46.07		ug/ml
1-chlorooctadecane (SURR)	13.276	13.276	5321098	43.63		ug/ml
Aliphatic C9-C28	3.072	17.209	617032727	4660	1200	ug/ml