

Report of Analysis

Client:	PSEG	Date Collected:	10/06/25
Project:	New Freedom Switch	Date Received:	10/06/25
Client Sample ID:	TP2	SDG No.:	Q3297
Lab Sample ID:	Q3297-11	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.9
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/07/25 10:00	10/07/25 17:03	PB170007

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	2.23	J	1	1.33	2.25	mg/kg	FC069951.D
Aliphatic C9-C28	Aliphatic C9-C28	4.49	U	1	1.02	4.49	mg/kg	FC069951.D
Total AliphaticEPH	Total AliphaticEPH	6.74	U		2.35	6.74	mg/kg	
Total EPH	Total EPH	6.74	U		2.35	6.74	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
FC069951.D	1	10/07/25	10/07/25	PB170007

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.02	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.23	J	1.33	2.25	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.9		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.3		40 - 140	61%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3297-11	Acq On:	07 Oct 2025 17:03
Client Sample ID:	TP2	Operator:	YP/AJ
Data file:	FC069951.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.284	6.577	458439	3.166	300	ug/ml
Aliphatic C12-C16	6.578	9.977	760684	4.644	200	ug/ml
Aliphatic C16-C21	9.978	13.345	657562	4.06	300	ug/ml
Aliphatic C21-C28	13.346	17.008	833780	5.666	400	ug/ml
Aliphatic C28-C40	17.009	21.963	3196981	29.712	600	ug/ml
Aliphatic EPH	3.284	21.963	5907446	47.249		ug/ml
ortho-Terphenyl (SURR)	11.646	11.646	5314701	30.27		ug/ml
1-chlorooctadecane (SURR)	13.080	13.080	4460385	32.86		ug/ml
Aliphatic C9-C28	3.284	17.008	2710465	17.536	1200	ug/ml