

Report of Analysis

Client:	PSEG	Date Collected:	08/22/25
Project:	Branchburg Switch	Date Received:	08/22/25
Client Sample ID:	367	SDG No.:	Q2949
Lab Sample ID:	Q2949-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	99.3
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
08/25/25 08:20	08/25/25 17:20	PB169369

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	22.0		1	1.19	2.01	mg/kg FE055487.D
Aliphatic C9-C28	Aliphatic C9-C28	7.15		1	0.92	4.03	mg/kg FE055487.D
Total AliphaticEPH	Total AliphaticEPH	29.1			2.11	6.04	mg/kg
Total EPH	Total EPH	29.1			2.11	6.04	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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Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE055487.D	1	08/25/25	08/25/25	PB169369

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	7.15		0.92	4.03	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	22.0		1.19	2.01	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	48.6		40 - 140	97%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	45.7		40 - 140	91%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2949-01	Acq On:	25 Aug 2025 17:20
Client Sample ID:	367	Operator:	YP\AJ
Data file:	FE055487.D	Misc:	
Instrument:	FID_E	ALS Vial:	24
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.318	6.954	1512369	12.95	300	ug/ml
Aliphatic C12-C16	6.955	10.408	1404822	11.218	200	ug/ml
Aliphatic C16-C21	10.409	13.788	7542693	59.671	300	ug/ml
Aliphatic C21-C28	13.789	17.461	2742850	22.761	400	ug/ml
Aliphatic C28-C40	17.462	22.488	37434290	328.408	600	ug/ml
Aliphatic EPH	3.318	22.488	50637024	435.008		ug/ml
ortho-Terphenyl (SURR)	12.088	12.088	6523451	45.68		ug/ml
1-chlorooctadecane (SURR)	13.525	13.525	5230133	48.64		ug/ml
Aliphatic C9-C28	3.318	17.461	13202734	106.6	1200	ug/ml