

Report of Analysis

Client:	PSEG	Date Collected:	05/20/25
Project:	PSEG East Edison Test Pits	Date Received:	05/22/25
Client Sample ID:	TP-02-MHF-E2	SDG No.:	Q2109
Lab Sample ID:	Q2109-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/23/25 08:55	05/23/25 16:19	PB168138

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	27.5		1	1.36	2.30	mg/kg	FE054002.D
Aliphatic C9-C28	Aliphatic C9-C28	38.6		1	1.05	4.61	mg/kg	FE054002.D
Total AliphaticEPH	Total AliphaticEPH	66.1			2.41	6.91	mg/kg	
Total EPH	Total EPH	66.1			2.41	6.91	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
FE054002.D	1	05/23/25	05/23/25	PB168138

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	38.6		1.05	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	27.5		1.36	2.30	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.3		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.6		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2109-02	Acq On:	23 May 2025 16:19
Client Sample ID:	TP-02-MHF-E2	Operator:	YP\AJ
Data file:	FE054002.D	Misc:	
Instrument:	FID_E	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.093	6.735	933218	6.884	300	ug/ml
Aliphatic C12-C16	6.736	10.183	11036259	81.785	200	ug/ml
Aliphatic C16-C21	10.184	13.557	28590464	216.741	300	ug/ml
Aliphatic C21-C28	13.558	17.224	24548101	197.686	400	ug/ml
Aliphatic C28-C40	17.225	22.101	41311236	357.887	600	ug/ml
Aliphatic EPH	3.093	22.101	106419278	860.984		ug/ml
ortho-Terphenyl (SURR)	11.844	11.844	5631208	34.65		ug/ml
1-chlorooctadecane (SURR)	13.289	13.289	5135163	43.32		ug/ml
Aliphatic C9-C28	3.093	17.224	65108042	503.096	1200	ug/ml