

Report of Analysis

Client:	PSEG	Date Collected:	09/12/25
Project:	Pennsauken M&R	Date Received:	09/12/25
Client Sample ID:	12/9B-EPH5	SDG No.:	Q3091
Lab Sample ID:	Q3091-13	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
09/15/25 08:30	09/15/25 22:10	PB169683

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.46		1	1.23	2.08	mg/kg	FE055842.D
Aliphatic C9-C28	Aliphatic C9-C28	1.80	J	1	0.95	4.17	mg/kg	FE055842.D
Total AliphaticEPH	Total AliphaticEPH	7.26			2.18	6.25	mg/kg	
Total EPH	Total EPH	7.26			2.18	6.25	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
FE055842.D	1	09/15/25	09/15/25	PB169683

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.80	J	0.95	4.17	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.46		1.23	2.08	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.6		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	42.2		40 - 140	84%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3091-13	Acq On:	15 Sep 2025 22:10
Client Sample ID:	12/9B-EPH5	Operator:	YP\AJ
Data file:	FE055842.D	Misc:	
Instrument:	FID_E	ALS Vial:	28
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.312	6.945	485973	3.785	300	ug/ml
Aliphatic C12-C16	6.946	10.397	958497	7.095	200	ug/ml
Aliphatic C16-C21	10.398	13.775	784806	5.442	300	ug/ml
Aliphatic C21-C28	13.776	17.446	1368960	9.557	400	ug/ml
Aliphatic C28-C40	17.447	22.458	10832173	78.654	600	ug/ml
Aliphatic EPH	3.312	22.458	14430409	104.533		ug/ml
ortho-Terphenyl (SURR)	12.071	12.071	6938769	42.24		ug/ml
1-chlorooctadecane (SURR)	13.508	13.508	5448816	43.57		ug/ml
Aliphatic C9-C28	3.312	17.446	3598236	25.879	1200	ug/ml