

Report of Analysis

Client:	PSEG	Date Collected:	11/19/25
Project:	PSEG Fairlawn Switching Station	Date Received:	11/19/25
Client Sample ID:	FAIRLAWN-GRAVEL-E2	SDG No.:	Q3686
Lab Sample ID:	Q3686-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 g	Test:	EPH_NF
Prep Method :	Final Vol: 2000 uL Prep Date : 11/20/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Datafile	Date Ana.	Prep BatchID
TARGETS										
Aliphatic C28-C40	Aliphatic C28-C40	11.1		1	1.18	2.00	mg/kg	FE056970.D	11/20/25 20:05	PB170649
Aliphatic C9-C28	Aliphatic C9-C28	832		20	18.2	79.9	mg/kg	FE056977.D	11/21/25 11:39	PB170649
Total AliphaticEPH	Total AliphaticEPH	843			19.4	81.9	mg/kg			
Total EPH	Total EPH	843			19.4	81.9	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 Date	11/20/25

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
Aliphatic C9-C28	Aliphatic C9-C28	947	E	1	0.91	3.99	mg/kg	11/20/25	PB170649
Aliphatic C28-C40	Aliphatic C28-C40	11.1		1	1.18	2.00	mg/kg	11/20/25	PB170649
SURROGATES									
3383-33-2	1-chlorooctadecane (SURR)	33.5			40 - 140	67%	SPK: 50		
84-15-1	ortho-Terphenyl (SURR)	42.8			40 - 140	86%	SPK: 50		

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q3686-02	Acq On:	20 Nov 2025 20:05
Client Sample ID:	FAIRLAWN-GRAVEL-E2	Operator:	YP\AJ
Data file:	FE056970.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	3.212	6.835	600607	3.509	300	ug/ml
Aliphatic C12-C16	6.836	10.280	100467243	562.041	200	ug/ml
Aliphatic C16-C21	10.281	13.654	1659710564	8900	300	ug/ml
Aliphatic C21-C28	13.655	17.324	918269791	4760	400	ug/ml
Aliphatic C28-C40	17.325	22.258	26497466	166.322	600	ug/ml
Aliphatic EPH	3.212	22.258	2705545671	14400		ug/ml
ortho-Terphenyl (SURR)	11.963	11.963	8941192	42.8		ug/ml
1-chlorooctadecane (SURR)	13.410	13.410	5393603	33.48		ug/ml
Aliphatic C9-C28	3.212	17.324	2679048205	14200	1200	ug/ml