

## Report of Analysis

Client:	PSEG	Date Collected:	08/13/25
Project:	Waldwick Switching Station	Date Received:	08/13/25
Client Sample ID:	DRILL CUTTING 6-9 COMP	SDG No.:	Q2870
Lab Sample ID:	Q2870-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.4
Sample Wt/Vol:	30.08      Units:    g	Final Vol:	2000              uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/15/25 09:30	08/15/25 19:48	PB169265

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
<b>TARGETS</b>								
Aliphatic C28-C40	Aliphatic C28-C40	2.55		1	1.35	2.28	mg/kg	FC069681.D
Aliphatic C9-C28	Aliphatic C9-C28	4.41	J	1	1.04	4.56	mg/kg	FC069681.D
Total AliphaticEPH	Total AliphaticEPH	6.96			2.39	6.84	mg/kg	
Total EPH	Total EPH	6.96			2.39	6.84	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
FC069681.D	1	08/15/25	08/15/25	PB169265

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
Aliphatic C9-C28	Aliphatic C9-C28	4.41	J	1.04	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.55		1.35	2.28	mg/kg
<b>SURROGATES</b>						
3383-33-2	1-chlorooctadecane (SURR)	39.3		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.7		40 - 140	75%	SPK: 50

## Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2870-04	Acq On:	15 Aug 2025 19:48
Client Sample ID:	DRIL CUTTING 6-9 COM	Operator:	YP/AJ
Data file:	FC069681.D	Misc:	
Instrument:	FID_C	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.295	6.590	476954	3.297	300	ug/ml
Aliphatic C12-C16	6.591	9.994	791941	5.521	200	ug/ml
Aliphatic C16-C21	9.995	13.363	6563321	49.141	300	ug/ml
Aliphatic C21-C28	13.364	17.027	807465	6.825	400	ug/ml
Aliphatic C28-C40	17.028	21.999	3195678	33.527	600	ug/ml
Aliphatic EPH	3.295	21.999	11835359	98.311		ug/ml
ortho-Terphenyl (SURR)	11.662	11.662	5630942	37.74		ug/ml
1-chlorooctadecane (SURR)	13.097	13.097	4279472	39.25		ug/ml
Aliphatic C9-C28	3.295	17.027	8639681	64.784	1200	ug/ml