

Report of Analysis

Client:	PSEG	Date Collected:	08/13/25
Project:	Aldene Switching Station	Date Received:	08/13/25
Client Sample ID:	DRILL CUTTING 1-3-EPH-3	SDG No.:	Q2873
Lab Sample ID:	Q2873-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	85.4
Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
08/18/25 08:35	08/18/25 22:08	PB169284

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	5.12		1	1.38	2.34	mg/kg	FE055370.D
Aliphatic C9-C28	Aliphatic C9-C28	5.79		1	1.06	4.68	mg/kg	FE055370.D
Total AliphaticEPH	Total AliphaticEPH	10.9			2.44	7.02	mg/kg	
Total EPH	Total EPH	10.9			2.44	7.02	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
FE055370.D	1	08/18/25	08/18/25	PB169284

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.79		1.06	4.68	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.12		1.38	2.34	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	47.3		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.7		40 - 140	89%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2873-03	Acq On:	18 Aug 2025 22:08
Client Sample ID:	DRILL CUTTING 1-3-EPH	Operator:	YP\AJ
Data file:	FE055370.D	Misc:	
Instrument:	FID_E	ALS Vial:	23
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.320	6.953	496768	4.254	300	ug/ml
Aliphatic C12-C16	6.954	10.407	1077144	8.602	200	ug/ml
Aliphatic C16-C21	10.408	13.786	5903577	46.704	300	ug/ml
Aliphatic C21-C28	13.787	17.457	1780774	14.778	400	ug/ml
Aliphatic C28-C40	17.458	22.478	7487066	65.683	600	ug/ml
Aliphatic EPH	3.320	22.478	16745329	140.02		ug/ml
ortho-Terphenyl (SURR)	12.082	12.082	6389156	44.74		ug/ml
1-chlorooctadecane (SURR)	13.519	13.519	5083572	47.28		ug/ml
Aliphatic C9-C28	3.320	17.457	9258263	74.338	1200	ug/ml