

Report of Analysis

Client:	PSEG	Date Collected:	07/14/25
Project:	Athenia Switching Station	Date Received:	07/14/25
Client Sample ID:	CHRT-26899-E2	SDG No.:	Q2597
Lab Sample ID:	Q2597-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	98.9
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
07/15/25 09:30	07/15/25 19:57	PB168855

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	5.93		1	1.19	2.02	mg/kg FE054860.D
Aliphatic C9-C28	Aliphatic C9-C28	87.0		2	1.84	8.08	mg/kg FE054871.D
Total AliphaticEPH	Total AliphaticEPH	92.9			3.03	10.1	mg/kg
Total EPH	Total EPH	92.9			3.03	10.1	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
FE054860.D	1	07/15/25	07/15/25	PB168855

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	90.0	E	0.92	4.04	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.93		1.19	2.02	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.9		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.7		40 - 140	77%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2597-02	Acq On:	15 Jul 2025 19:57
Client Sample ID:	CHRT-26899-E2	Operator:	YP\AJ
Data file:	FE054860.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.326	6.958	483124	3.551	300	ug/ml
Aliphatic C12-C16	6.959	10.409	6984719	49.689	200	ug/ml
Aliphatic C16-C21	10.410	13.786	118415184	820.086	300	ug/ml
Aliphatic C21-C28	13.787	17.455	67080605	463.739	400	ug/ml
Aliphatic C28-C40	17.456	22.473	12230074	88.21	600	ug/ml
Aliphatic EPH	3.326	22.473	205193706	1430		ug/ml
ortho-Terphenyl (SURR)	12.088	12.088	6286247	38.71		ug/ml
1-chlorooctadecane (SURR)	13.524	13.524	4528774	35.86		ug/ml
Aliphatic C9-C28	3.326	17.455	192963632	1340	1200	ug/ml