

Report of Analysis

Client:	PSEG	Date Collected:	
Project:	Athenia Switching Station	Date Received:	
Client Sample ID:	CHRT-26899MSD	SDG No.:	Q2597
Lab Sample ID:	Q2597-01MSD	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	98.6
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
07/15/25 09:30	07/15/25 19:26	PB168855

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Total AliphaticEPH	Total AliphaticEPH	411			2.11	6.07	mg/kg
Total EPH	Total EPH	411			2.11	6.07	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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Sample Wt/Vol:	30.06 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054859.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	370	E	0.92	4.04	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	40.2		1.19	2.02	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.8		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.1		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2597-01MSD	Acq On:	15 Jul 2025 19:26
Client Sample ID:	Q2597-01MSD	Operator:	YP\AJ
Data file:	FE054859.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.326	6.958	25394883	186.651	300	ug/ml
Aliphatic C12-C16	6.959	10.409	74346661	528.901	200	ug/ml
Aliphatic C16-C21	10.410	13.786	417058736	2890	300	ug/ml
Aliphatic C21-C28	13.787	17.455	275434125	1900	400	ug/ml
Aliphatic C28-C40	17.456	22.473	82644303	596.075	600	ug/ml
Aliphatic EPH	3.326	22.473	874878708	6100		ug/ml
ortho-Terphenyl (SURR)	12.090	12.090	6027831	37.12		ug/ml
1-chlorooctadecane (SURR)	13.528	13.528	4144379	32.82		ug/ml
Aliphatic C9-C28	3.326	17.455	792234405	5510	1200	ug/ml