

Report of Analysis

Client:	PSEG	Date Collected:	06/27/25
Project:	Deans Switching Station	Date Received:	06/27/25
Client Sample ID:	500-3B-E2	SDG No.:	Q2442
Lab Sample ID:	Q2442-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
06/30/25 08:50	06/30/25 21:30	PB168656

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	15.8		1	1.18	1.99	mg/kg FE054640.D
Aliphatic C9-C28	Aliphatic C9-C28	69.5		1	0.91	3.99	mg/kg FE054640.D
Total AliphaticEPH	Total AliphaticEPH	85.3			2.09	5.98	mg/kg
Total EPH	Total EPH	85.3			2.09	5.98	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:	30.08 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
FE054640.D	1	06/30/25	06/30/25	PB168656

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	69.5		0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	15.8		1.18	1.99	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.5		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.0		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2442-02	Acq On:	30 Jun 2025 21:30
Client Sample ID:	500-3B-E2	Operator:	YP\AJ
Data file:	FE054640.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	3.322	6.949	2379713	17.491	300	ug/ml
Aliphatic C12-C16	6.950	10.397	7568955	53.845	200	ug/ml
Aliphatic C16-C21	10.398	13.771	103377097	715.939	300	ug/ml
Aliphatic C21-C28	13.772	17.439	37513109	259.334	400	ug/ml
Aliphatic C28-C40	17.440	22.445	32982169	237.885	600	ug/ml
Aliphatic EPH	3.322	22.445	183821043	1280		ug/ml
ortho-Terphenyl (SURR)	12.075	12.075	6016164	37.05		ug/ml
1-chlorooctadecane (SURR)	13.512	13.512	4482909	35.5		ug/ml
Aliphatic C9-C28	3.322	17.439	150838874	1050	1200	ug/ml