

Report of Analysis

Client:	PSEG	Date Collected:	04/17/25
Project:	Sewaren Laydown Yard	Date Received:	04/17/25
Client Sample ID:	RT4643	SDG No.:	Q1828
Lab Sample ID:	Q1828-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.6
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
04/18/25 08:35	04/18/25 19:15	PB167642

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	6.22		1	1.29	2.18	mg/kg FC068640.D
Aliphatic C9-C28	Aliphatic C9-C28	5.44		1	0.99	4.36	mg/kg FC068640.D
Total AliphaticEPH	Total AliphaticEPH	11.7			2.28	6.54	mg/kg
Total EPH	Total EPH	11.7			2.28	6.54	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 :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC068640.D	1	04/18/25	04/18/25	PB167642

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.44		0.99	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.22		1.29	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.9		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.8		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1828-01	Acq On:	18 Apr 2025 19:15
Client Sample ID:	RT4643	Operator:	YP/AJ
Data file:	FC068640.D	Misc:	
Instrument:	FID_C	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.346	6.647	340417	3.233	300	ug/ml
Aliphatic C12-C16	6.648	10.048	693877	6.781	200	ug/ml
Aliphatic C16-C21	10.049	13.416	1822934	18.448	300	ug/ml
Aliphatic C21-C28	13.417	17.083	4370996	46.408	400	ug/ml
Aliphatic C28-C40	17.084	22.087	7691303	85.57	600	ug/ml
Aliphatic EPH	3.346	22.087	14919527	160.441		ug/ml
ortho-Terphenyl (SURR)	11.720	11.720	4813106	37.8		ug/ml
1-chlorooctadecane (SURR)	13.153	13.153	3609637	38.86		ug/ml
Aliphatic C9-C28	3.346	17.083	7228224	74.87	1200	ug/ml