

Report of Analysis

Client:	PSEG	Date Collected:	05/14/25
Project:	Sewaren Laydown Yard	Date Received:	05/14/25
Client Sample ID:	72-11991	SDG No.:	Q2038
Lab Sample ID:	Q2038-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.5
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
05/16/25 08:00	05/16/25 14:38	PB168035

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	4.21		1	1.29	2.18	mg/kg FE053874.D
Aliphatic C9-C28	Aliphatic C9-C28	18.7		1	0.99	4.36	mg/kg FE053874.D
Total AliphaticEPH	Total AliphaticEPH	22.9			2.28	6.54	mg/kg
Total EPH	Total EPH	22.9			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
FE053874.D	1	05/16/25	05/16/25	PB168035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	18.7		0.99	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	4.21		1.29	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.6		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.0		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2038-01	Acq On:	16 May 2025 14:38
Client Sample ID:	72-11991	Operator:	YP\AJ
Data file:	FE053874.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.099	6.740	336620	2.483	300	ug/ml
Aliphatic C12-C16	6.741	10.188	7680817	56.92	200	ug/ml
Aliphatic C16-C21	10.189	13.562	16702326	126.618	300	ug/ml
Aliphatic C21-C28	13.563	17.231	8775309	70.668	400	ug/ml
Aliphatic C28-C40	17.232	22.111	6686742	57.929	600	ug/ml
Aliphatic EPH	3.099	22.111	40181814	314.617		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	6018040	37.03		ug/ml
1-chlorooctadecane (SURR)	13.298	13.298	5168847	43.6		ug/ml
Aliphatic C9-C28	3.099	17.231	33495072	256.689	1200	ug/ml