

Report of Analysis

Client:	PSEG	Date Collected:	05/20/25
Project:	Bergen Point Substation	Date Received:	05/20/25
Client Sample ID:	SOIL-DRUM	SDG No.:	Q2093
Lab Sample ID:	Q2093-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	45.6
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
05/21/25 09:30	05/21/25 18:51	PB168103

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	36.6		1	2.58	4.38	mg/kg FE053953.D
Aliphatic C9-C28	Aliphatic C9-C28	16.9		1	1.99	8.76	mg/kg FE053953.D
Total AliphaticEPH	Total AliphaticEPH	53.5			4.57	13.1	mg/kg
Total EPH	Total EPH	53.5			4.57	13.1	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053953.D	1	05/21/25	05/21/25	PB168103

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	16.9		1.99	8.76	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	36.6		2.58	4.38	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.8		40 - 140	88%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.8		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2093-01	Acq On:	21 May 2025 18:51
Client Sample ID:	SOIL-DRUMS	Operator:	YP\AJ
Data file:	FE053953.D	Misc:	
Instrument:	FID_E	ALS Vial:	12
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.094	6.735	311929	2.301	300	ug/ml
Aliphatic C12-C16	6.736	10.183	1217035	9.019	200	ug/ml
Aliphatic C16-C21	10.184	13.556	12243544	92.817	300	ug/ml
Aliphatic C21-C28	13.557	17.223	1485101	11.96	400	ug/ml
Aliphatic C28-C40	17.224	22.099	28961193	250.897	600	ug/ml
Aliphatic EPH	3.094	22.099	44218802	366.993		ug/ml
ortho-Terphenyl (SURR)	11.847	11.847	6138676	37.77		ug/ml
1-chlorooctadecane (SURR)	13.292	13.292	5188715	43.77		ug/ml
Aliphatic C9-C28	3.094	17.223	15257609	116.097	1200	ug/ml