

Report of Analysis

Client:	PSEG	Date Collected:	05/08/25
Project:	Waldwick Substation	Date Received:	05/08/25
Client Sample ID:	VNJ-218	SDG No.:	Q1986
Lab Sample ID:	Q1986-09	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.3
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/12/25 08:30	05/12/25 20:06	PB167945

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	1.60	J	1	1.29	2.19	mg/kg	FE053777.D
Aliphatic C9-C28	Aliphatic C9-C28	3.14	J	1	1.00	4.37	mg/kg	FE053777.D
Total AliphaticEPH	Total AliphaticEPH	4.74	J		2.29	6.56	mg/kg	
Total EPH	Total EPH	4.74	J		2.29	6.56	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 :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053777.D	1	05/12/25	05/12/25	PB167945

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.14	J	1.00	4.37	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.60	J	1.29	2.19	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	56.3		40 - 140	113%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	54.4		40 - 140	109%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1986-09	Acq On:	12 May 2025 20:06
Client Sample ID:	VNJ-218	Operator:	YP\AJ
Data file:	FE053777.D	Misc:	
Instrument:	FID_E	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.103	6.745	525206	3.79	300	ug/ml
Aliphatic C12-C16	6.746	10.194	1988217	14.021	200	ug/ml
Aliphatic C16-C21	10.195	13.568	1417407	9.751	300	ug/ml
Aliphatic C21-C28	13.569	17.237	2203742	15.5	400	ug/ml
Aliphatic C28-C40	17.238	22.126	2833351	21.956	600	ug/ml
Aliphatic EPH	3.103	22.126	8967923	65.018		ug/ml
ortho-Terphenyl (SURR)	11.857	11.857	9803985	54.36		ug/ml
1-chlorooctadecane (SURR)	13.301	13.301	7606708	56.27		ug/ml
Aliphatic C9-C28	3.103	17.237	6134572	43.062	1200	ug/ml