

Report of Analysis

Client:	PSEG	Date Collected:	03/07/25
Project:	Kearny Switch	Date Received:	03/07/25
Client Sample ID:	VNJ-241	SDG No.:	Q1524
Lab Sample ID:	Q1524-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	88.9
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
03/10/25 09:00	03/10/25 17:31	PB167046

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
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TARGETS

Total AliphaticEPH	Total AliphaticEPH	5.00	J		3.95	3.37	6.74	mg/kg
Total EPH	Total EPH	5.00	J		3.95	3.37	6.74	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
FE052705.D	1	03/10/25	03/10/25	PB167046

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
Aliphatic C9-C28	Aliphatic C9-C28	3.06	J	1.02	3.04	4.49	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.36		1.33	1.80	2.25	mg/kg
SURROGATES							
3383-33-2	1-chlorooctadecane (SURR)	28.1		40 - 140		56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	27.5		40 - 140		55%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1524-02	Acq On:	10 Mar 2025 17:31
Client Sample ID:	VNJ-241	Operator:	YP\AJ
Data file:	FE052705.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.151	6.796	871849	5.591	300	ug/ml
Aliphatic C12-C16	6.797	10.250	766417	5.039	200	ug/ml
Aliphatic C16-C21	10.251	13.630	1284448	8.765	300	ug/ml
Aliphatic C21-C28	13.631	17.305	3059576	21.478	400	ug/ml
Aliphatic C28-C40	17.306	22.234	4018640	31.497	600	ug/ml
Aliphatic EPH	3.151	22.234	10000930	72.369		ug/ml
ortho-Terphenyl (SURR)	11.914	11.914	4628735	27.46		ug/ml
1-chlorooctadecane (SURR)	13.358	13.358	3416471	28.14		ug/ml
Aliphatic C9-C28	3.151	17.305	5982290	40.873	1200	ug/ml