

Report of Analysis

Client:	PSEG	Date Collected:	12/18/24
Project:	Hackensack Sub HQ	Date Received:	12/18/24
Client Sample ID:	VNJ210	SDG No.:	P5343
Lab Sample ID:	P5343-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.4
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
12/19/24 09:10	12/19/24 18:31	PB165749

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	14.9		1	2.24	2.49	mg/kg	FE051720.D
Aliphatic C9-C28	Aliphatic C9-C28	4.88	J	1	2.14	4.97	mg/kg	FE051720.D
Total AliphaticEPH	Total AliphaticEPH	19.8			4.38	7.46	mg/kg	
Total EPH	Total EPH	19.8			4.38	7.46	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051720.D	1	12/19/24	12/19/24	PB165749

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.88	J	2.14	4.97	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	14.9		2.24	2.49	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	29.7		40 - 140	59%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	28.8		40 - 140	58%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5343-01	Acq On:	19 Dec 2024 18:31
Client Sample ID:	VNJ210	Operator:	YP\AJ
Data file:	FE051720.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.381	6.952	506543	4.06	300	ug/ml
Aliphatic C12-C16	6.953	10.358	876282	6.327	200	ug/ml
Aliphatic C16-C21	10.359	13.700	3267904	22.621	300	ug/ml
Aliphatic C21-C28	13.701	17.331	4095610	30.041	400	ug/ml
Aliphatic C28-C40	17.332	22.209	19472404	179.36	600	ug/ml
Aliphatic EPH	3.381	22.209	28218743	242.41		ug/ml
ortho-Terphenyl (SURR)	12.021	12.021	4625789	28.81		ug/ml
1-chlorooctadecane (SURR)	13.442	13.442	3747180	29.7		ug/ml
Aliphatic C9-C28	3.381	17.331	8746339	63.049	1200	ug/ml