

Report of Analysis

Client:	PSEG	Date Collected:	04/30/25
Project:	Hackensack Sub HQ	Date Received:	04/30/25
Client Sample ID:	291	SDG No.:	Q1920
Lab Sample ID:	Q1920-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.1
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
05/01/25 08:45	05/01/25 13:18	PB167819

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	5.19		1	1.28	2.17	mg/kg FE053603.D
Aliphatic C9-C28	Aliphatic C9-C28	6.83		1	0.99	4.35	mg/kg FE053603.D
Total AliphaticEPH	Total AliphaticEPH	12.0			2.27	6.52	mg/kg
Total EPH	Total EPH	12.0			2.27	6.52	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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Lab Sample ID:	Q1920-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	92.1
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053603.D	1	05/01/25	05/01/25	PB167819

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	6.83		0.99	4.35	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	5.19		1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.9		40 - 140	56%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	25.6		40 - 140	51%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1920-01	Acq On:	01 May 2025 13:18
Client Sample ID:	291	Operator:	YP\AJ
Data file:	FE053603.D	Misc:	
Instrument:	FID_E	ALS Vial:	6
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.114	6.754	324202	2.34	300	ug/ml
Aliphatic C12-C16	6.755	10.203	1287853	9.082	200	ug/ml
Aliphatic C16-C21	10.204	13.577	5260652	36.19	300	ug/ml
Aliphatic C21-C28	13.578	17.245	6632901	46.653	400	ug/ml
Aliphatic C28-C40	17.246	22.133	9263227	71.781	600	ug/ml
Aliphatic EPH	3.114	22.133	22768835	166.045		ug/ml
ortho-Terphenyl (SURR)	11.868	11.868	4623125	25.63		ug/ml
1-chlorooctadecane (SURR)	13.313	13.313	3769489	27.89		ug/ml
Aliphatic C9-C28	3.114	17.245	13505608	94.265	1200	ug/ml