

Report of Analysis

Client:	PSEG	Date Collected:	11/08/24
Project:	Saddle Brook Substation	Date Received:	11/08/24
Client Sample ID:	TP-3	SDG No.:	P4796
Lab Sample ID:	P4796-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.1
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
11/10/24 08:35	11/11/24 17:43	PB164844

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	8.00		1	1.89	2.10	mg/kg	FE051153.D
Aliphatic C9-C28	Aliphatic C9-C28	1.81	U	1	1.81	4.20	mg/kg	FE051153.D
Total AliphaticEPH	Total AliphaticEPH	8.00			3.70	6.30	mg/kg	
Total EPH	Total EPH	8.00			3.70	6.30	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
FE051153.D	1	11/10/24	11/11/24	PB164844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.81	4.20	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.00		1.89	2.10	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	34.7		40 - 140	69%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.7		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4796-06	Acq On:	11 Nov 2024 17:43
Client Sample ID:	TP-3	Operator:	YP\AJ
Data file:	FE051153.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.140	22.059	17911390	137.645		ug/ml
ortho-Terphenyl (SURR)	11.853	11.853	5203420	34.67		ug/ml
1-chlorooctadecane (SURR)	13.287	13.287	3942885	34.73		ug/ml
Aliphatic C9-C12	3.140	6.760	280518	2.005	300	ug/ml
Aliphatic C12-C16	6.761	10.193	641657	4.563	200	ug/ml
Aliphatic C16-C21	10.194	13.553	917412	6.659	300	ug/ml
Aliphatic C21-C28	13.554	17.209	1366866	10.204	400	ug/ml
Aliphatic C28-C40	17.210	22.059	14704937	114.215	600	ug/ml
Aliphatic C9-C28	3.140	17.209	3206453	23.431	1200	ug/ml