

Report of Analysis

Client:	PSEG	Date Collected:	11/13/24
Project:	New Dover Substation	Date Received:	11/13/24
Client Sample ID:	T-20-E2	SDG No.:	P4824
Lab Sample ID:	P4824-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.09	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
11/14/24 09:40	11/14/24 15:47	PB164966

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	29.8		1	1.79	1.99	mg/kg	FE051236.D
Aliphatic C9-C28	Aliphatic C9-C28	467		10	17.1	39.9	mg/kg	FE051259.D
Total AliphaticEPH	Total AliphaticEPH	497			18.9	41.9	mg/kg	
Total EPH	Total EPH	497			18.9	41.9	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
FE051236.D	1	11/14/24	11/14/24	PB164966

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	440	E	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	29.8		1.79	1.99	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.1		40 - 140	70%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	35.7		40 - 140	71%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4824-02	Acq On:	14 Nov 2024 15:47
Client Sample ID:	T-20-E2	Operator:	YP\AJ
Data file:	FE051236.D	Misc:	
Instrument:	FID_E	ALS Vial:	10
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.135	6.753	371898	2.658	300	ug/ml
Aliphatic C12-C16	6.754	10.184	12695875	90.275	200	ug/ml
Aliphatic C16-C21	10.185	13.542	650383740	4720	300	ug/ml
Aliphatic C21-C28	13.543	17.196	245502507	1830	400	ug/ml
Aliphatic C28-C40	17.197	22.038	57703195	448.186	600	ug/ml
Aliphatic EPH	3.135	22.038	966657215	7090		ug/ml
ortho-Terphenyl (SURR)	11.857	11.857	5359762	35.71		ug/ml
1-chlorooctadecane (SURR)	13.291	13.291	3988436	35.13		ug/ml
Aliphatic C9-C28	3.135	17.196	908954020	6650	1200	ug/ml