

Report of Analysis

Client:	PSEG	Date Collected:	11/01/24
Project:	PSEG Clay Street	Date Received:	11/02/24
Client Sample ID:	Z-01-EPH	SDG No.:	P4695
Lab Sample ID:	P4695-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.7
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
11/05/24 09:56	11/06/24 11:50	PB164681

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	124		5	10.2	11.4	mg/kg FE051066.D
Aliphatic C9-C28	Aliphatic C9-C28	1030		20	39.1	90.9	mg/kg FE051067.D
Total AliphaticEPH	Total AliphaticEPH	1160			49.3	102	mg/kg
Total EPH	Total EPH	1160			49.3	102	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 :		Test:	EPH_NF

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051042.D	1	11/05/24	11/05/24	PB164681

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1060	E	1.96	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	150	E	2.05	2.27	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	1040		40 - 140	2088%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.0		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4695-02	Acq On:	05 Nov 2024 23:27
Client Sample ID:	Z-01-EPH	Operator:	YP\AJ
Data file:	FE051042.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	3.140	6.760	36537014	255.683	300	ug/ml
Aliphatic C12-C16	6.761	10.191	261733077	1800	200	ug/ml
Aliphatic C16-C21	10.192	13.549	894405983	6190	300	ug/ml
Aliphatic C21-C28	13.550	17.205	810315359	5700	400	ug/ml
Aliphatic C28-C40	17.206	22.048	274777524	1990	600	ug/ml
Aliphatic EPH	3.140	22.048	2277768957	15900		ug/ml
ortho-Terphenyl (SURR)	11.877	11.877	4731703	30.01		ug/ml
1-chlorooctadecane (SURR)	13.294	13.294	123526425	1040		ug/ml
Aliphatic C9-C28	3.140	17.205	2002991433	14000	1200	ug/ml