

Report of Analysis

Client:	PSEG	Date Collected:	10/31/24
Project:	PSEG Clay Street	Date Received:	10/31/24
Client Sample ID:	Z-02-EPH	SDG No.:	P4645
Lab Sample ID:	P4645-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.5
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
11/01/24 08:50	11/04/24 11:50	PB164589

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	57.8		2	3.93	4.37	mg/kg FE050996.D
Aliphatic C9-C28	Aliphatic C9-C28	47.1		1	1.88	4.37	mg/kg FE050982.D
Total AliphaticEPH	Total AliphaticEPH	105			5.81	8.74	mg/kg
Total EPH	Total EPH	105			5.81	8.74	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
FE050982.D	1	11/01/24	11/02/24	PB164589

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	47.1		1.88	4.37	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	62.3	E	1.96	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.9		40 - 140	84%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	29.7		40 - 140	59%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4645-02	Acq On:	02 Nov 2024 01:07
Client Sample ID:	Z-02-EPH	Operator:	YP\AJ
Data file:	FE050982.D	Misc:	
Instrument:	FID_E	ALS Vial:	26
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.143	22.051	211561977	1510		ug/ml
ortho-Terphenyl (SURR)	11.852	11.852	4686769	29.73		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	4958852	41.92		ug/ml
Aliphatic C9-C12	3.143	6.761	427855	2.994	300	ug/ml
Aliphatic C12-C16	6.762	10.193	5501862	37.913	200	ug/ml
Aliphatic C16-C21	10.194	13.552	43075048	298.301	300	ug/ml
Aliphatic C21-C28	13.553	17.208	44214259	311.029	400	ug/ml
Aliphatic C28-C40	17.209	22.051	118342953	855.677	600	ug/ml
Aliphatic C9-C28	3.143	17.208	93219024	650.237	1200	ug/ml