

Report of Analysis

Client:	PSEG	Date Collected:	12/18/24
Project:	PSEG 14th-Harts Tice LN UG	Date Received:	12/18/24
Client Sample ID:	TP-5	SDG No.:	P5330
Lab Sample ID:	P5330-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.6
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
12/19/24 09:10	12/19/24 15:57	PB165749

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	9.50		1	1.88	2.09	mg/kg	FC068048.D
Aliphatic C9-C28	Aliphatic C9-C28	2.63	J	1	1.80	4.17	mg/kg	FC068048.D
Total AliphaticEPH	Total AliphaticEPH	12.1			3.68	6.26	mg/kg	
Total EPH	Total EPH	12.1			3.68	6.26	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
FC068048.D	1	12/19/24	12/19/24	PB165749

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.63	J	1.80	4.17	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.50		1.88	2.09	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.1		40 - 140	86%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	39.3		40 - 140	79%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5330-01	Acq On:	19 Dec 2024 15:57
Client Sample ID:	TP-5	Operator:	YP/AJ
Data file:	FC068048.D	Misc:	
Instrument:	FID_C	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.120	6.393	511771	3.233	300	ug/ml
Aliphatic C12-C16	6.394	9.782	1399017	8.729	200	ug/ml
Aliphatic C16-C21	9.783	13.140	1685680	11.064	300	ug/ml
Aliphatic C21-C28	13.141	16.794	2455534	18.005	400	ug/ml
Aliphatic C28-C40	16.795	21.609	14458371	136.445	600	ug/ml
Aliphatic EPH	3.120	21.609	20510373	177.475		ug/ml
ortho-Terphenyl (SURR)	11.429	11.429	6799114	39.32		ug/ml
1-chlorooctadecane (SURR)	12.871	12.871	5494930	43.07		ug/ml
Aliphatic C9-C28	3.120	16.794	6052002	41.031	1200	ug/ml