

Report of Analysis

Client:	PSEG	Date Collected:	04/16/25
Project:	PL-714 Watchung	Date Received:	04/17/25
Client Sample ID:	PL-714-05	SDG No.:	Q1832
Lab Sample ID:	Q1832-10	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	76
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
04/18/25 10:00	04/18/25 20:01	PB167646

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	15.7		1	1.55	2.63	mg/kg FG015714.D
Aliphatic C9-C28	Aliphatic C9-C28	13.7		1	1.20	5.25	mg/kg FG015714.D
Total AliphaticEPH	Total AliphaticEPH	29.4			2.75	7.88	mg/kg
Total EPH	Total EPH	29.4			2.75	7.88	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
FG015714.D	1	04/18/25	04/18/25	PB167646

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	13.7		1.20	5.25	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	15.7		1.55	2.63	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	46.8		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.5		40 - 140	83%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1832-10	Acq On:	18 Apr 2025 20:01
Client Sample ID:	PL-714-05	Operator:	YP\AJ
Data file:	FG015714.D	Misc:	
Instrument:	FID_G	ALS Vial:	33
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.148	6.788	377657	3.35	300	ug/ml
Aliphatic C12-C16	6.789	10.237	1405826	12.178	200	ug/ml
Aliphatic C16-C21	10.238	13.612	6735245	56.615	300	ug/ml
Aliphatic C21-C28	13.613	17.283	9522785	84.204	400	ug/ml
Aliphatic C28-C40	17.284	22.195	17628534	178.684	600	ug/ml
Aliphatic EPH	3.148	22.195	35670047	335.03		ug/ml
ortho-Terphenyl (SURR)	11.904	11.904	6008494	41.45		ug/ml
1-chlorooctadecane (SURR)	13.349	13.349	4946040	46.77		ug/ml
Aliphatic C9-C28	3.148	17.283	18041513	156.347	1200	ug/ml