

Report of Analysis

Client:	PSEG	Date Collected:	04/16/25
Project:	PL-714 Watchung	Date Received:	04/17/25
Client Sample ID:	PL-714-21	SDG No.:	Q1832
Lab Sample ID:	Q1832-41	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	80.9
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
04/21/25 08:20	04/21/25 21:04	PB167658

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	3.26		1	1.46	2.47	mg/kg	FE053451.D
Aliphatic C9-C28	Aliphatic C9-C28	2.17	J	1	1.12	4.93	mg/kg	FE053451.D
Total AliphaticEPH	Total AliphaticEPH	5.43	J		2.58	7.40	mg/kg	
Total EPH	Total EPH	5.43	J		2.58	7.40	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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Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE053451.D	1	04/21/25	04/21/25	PB167658

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	2.17	J	1.12	4.93	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.26		1.46	2.47	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	37.7		40 - 140	75%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	37.5		40 - 140	75%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1832-41	Acq On:	21 Apr 2025 21:04
Client Sample ID:	PL-714-21	Operator:	YP\AJ
Data file:	FE053451.D	Misc:	
Instrument:	FID_E	ALS Vial:	25
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.124	6.766	604419	4.362	300	ug/ml
Aliphatic C12-C16	6.767	10.216	863261	6.088	200	ug/ml
Aliphatic C16-C21	10.217	13.591	632287	4.35	300	ug/ml
Aliphatic C21-C28	13.592	17.262	1636861	11.513	400	ug/ml
Aliphatic C28-C40	17.263	22.159	5104228	39.553	600	ug/ml
Aliphatic EPH	3.124	22.159	8841056	65.865		ug/ml
ortho-Terphenyl (SURR)	11.877	11.877	6759186	37.48		ug/ml
1-chlorooctadecane (SURR)	13.322	13.322	5093869	37.68		ug/ml
Aliphatic C9-C28	3.124	17.262	3736828	26.313	1200	ug/ml