

Report of Analysis

Client:	PSEG	Date Collected:	03/12/25
Project:	Kearny Switch	Date Received:	03/12/25
Client Sample ID:	72-11978	SDG No.:	Q1549
Lab Sample ID:	Q1549-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	89.4
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
03/13/25 09:50	03/13/25 17:31	PB167114

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	26.4		1	2.01	2.23	mg/kg FE052782.D
Aliphatic C9-C28	Aliphatic C9-C28	5.63		1	1.92	4.47	mg/kg FE052782.D
Total AliphaticEPH	Total AliphaticEPH	32.0			3.93	6.70	mg/kg
Total EPH	Total EPH	32.0			3.93	6.70	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
FE052782.D	1	03/13/25	03/13/25	PB167114

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.63		1.92	4.47	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	26.4		2.01	2.23	mg/kg
SURROGATES						
1-chlorooctadecane (SURR)	1-chlorooctadecane (SURR)	42.4		40 - 140	85%	SPK: 50
ortho-Terphenyl (SURR)	ortho-Terphenyl (SURR)	40.4		40 - 140	81%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1549-01	Acq On:	13 Mar 2025 17:31
Client Sample ID:	72-11978	Operator:	YP\AJ
Data file:	FE052782.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.150	6.794	1048407	6.723	300	ug/ml
Aliphatic C12-C16	6.795	10.247	911853	5.995	200	ug/ml
Aliphatic C16-C21	10.248	13.625	2498784	17.051	300	ug/ml
Aliphatic C21-C28	13.626	17.297	6536556	45.886	400	ug/ml
Aliphatic C28-C40	17.298	22.215	45275911	354.857	600	ug/ml
Aliphatic EPH	3.150	22.215	56271511	430.512		ug/ml
ortho-Terphenyl (SURR)	11.910	11.910	6810397	40.4		ug/ml
1-chlorooctadecane (SURR)	13.354	13.354	5150779	42.42		ug/ml
Aliphatic C9-C28	3.150	17.297	10995600	75.655	1200	ug/ml