

Report of Analysis

Client:	PSEG	Date Collected:	03/11/25
Project:	OR-620 Hackensack	Date Received:	03/11/25
Client Sample ID:	OR-620-JB-02	SDG No.:	Q1547
Lab Sample ID:	Q1547-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	90.6
Sample Wt/Vol:	30.05	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 16:00	PB167114

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	24.1		1	1.98	2.20	mg/kg	FE052779.D
Aliphatic C9-C28	Aliphatic C9-C28	2.98	J	1	1.90	4.41	mg/kg	FE052779.D
Total AliphaticEPH	Total AliphaticEPH	27.1			3.88	6.61	mg/kg	
Total EPH	Total EPH	27.1			3.88	6.61	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE052779.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	2.98	J	1.90	4.41	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	24.1		1.98	2.20	mg/kg
SURROGATES						
1-chlorooctadecane (SURR)	1-chlorooctadecane (SURR)	33.1		40 - 140	66%	SPK: 50
ortho-Terphenyl (SURR)	ortho-Terphenyl (SURR)	31.4		40 - 140	63%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1547-04	Acq On:	13 Mar 2025 16:00
Client Sample ID:	OR-620-JB-02	Operator:	YP\AJ
Data file:	FE052779.D	Misc:	
Instrument:	FID_E	ALS Vial:	15
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.150	6.794	908937	5.828	300	ug/ml
Aliphatic C12-C16	6.795	10.247	606814	3.99	200	ug/ml
Aliphatic C16-C21	10.248	13.625	4506947	30.754	300	ug/ml
Aliphatic C21-C28	13.626	17.297	1273048	8.937	400	ug/ml
Aliphatic C28-C40	17.298	22.215	41836613	327.901	600	ug/ml
Aliphatic EPH	3.150	22.215	49132359	377.41		ug/ml
ortho-Terphenyl (SURR)	11.909	11.909	5291281	31.39		ug/ml
1-chlorooctadecane (SURR)	13.354	13.354	4024515	33.14		ug/ml
Aliphatic C9-C28	3.150	17.297	7295746	49.509	1200	ug/ml