

Report of Analysis

Client:	PSEG	Date Collected:	05/29/25
Project:	PSEG 544 S Orange Ave, Newark OP	Date Received:	05/29/25
Client Sample ID:	WC-1-EPH	SDG No.:	Q2151
Lab Sample ID:	Q2151-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.2
Sample Wt/Vol:	30.02 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/30/25 09:20	05/30/25 18:03	PB168210

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	3.57		1	1.37	2.32	mg/kg	FE054104.D
Aliphatic C9-C28	Aliphatic C9-C28	3.03	J	1	1.05	4.64	mg/kg	FE054104.D
Total AliphaticEPH	Total AliphaticEPH	6.60	J		2.42	6.96	mg/kg	
Total EPH	Total EPH	6.60	J		2.42	6.96	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
FE054104.D	1	05/30/25	05/30/25	PB168210

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.03	J	1.05	4.64	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	3.57		1.37	2.32	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	59.6		40 - 140	119%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	54.3		40 - 140	109%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2151-02	Acq On:	30 May 2025 18:03
Client Sample ID:	WC-1-EPH	Operator:	YP\AJ
Data file:	FE054104.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	3.091	6.737	330422	2.437	300	ug/ml
Aliphatic C12-C16	6.738	10.186	919855	6.817	200	ug/ml
Aliphatic C16-C21	10.187	13.562	1004036	7.611	300	ug/ml
Aliphatic C21-C28	13.563	17.233	2781537	22.4	400	ug/ml
Aliphatic C28-C40	17.234	22.117	5326003	46.14	600	ug/ml
Aliphatic EPH	3.091	22.117	10361853	85.406		ug/ml
ortho-Terphenyl (SURR)	11.841	11.841	8826487	54.31		ug/ml
1-chlorooctadecane (SURR)	13.286	13.286	7062665	59.58		ug/ml
Aliphatic C9-C28	3.091	17.233	5035850	39.265	1200	ug/ml