

Report of Analysis

Client:	PSEG	Date Collected:	05/21/25
Project:	Trenton Gas and Appliance Service MA00006789	Date Received:	05/21/25
Client Sample ID:	TR-06-052125	SDG No.:	Q2104
Lab Sample ID:	Q2104-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.9
Sample Wt/Vol:	30.07 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/22/25 09:30	05/22/25 18:11	PB168127

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	34.9		1	1.28	2.17	mg/kg	FE053981.D
Aliphatic C9-C28	Aliphatic C9-C28	25.4		1	0.99	4.35	mg/kg	FE053981.D
Total AliphaticEPH	Total AliphaticEPH	60.3			2.27	6.52	mg/kg	
Total EPH	Total EPH	60.3			2.27	6.52	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
FE053981.D	1	05/22/25	05/22/25	PB168127

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	25.4		0.99	4.35	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	34.9		1.28	2.17	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.7		40 - 140	73%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.2		40 - 140	68%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2104-01	Acq On:	22 May 2025 18:11
Client Sample ID:	TR-06-052125	Operator:	YP\AJ
Data file:	FE053981.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	3.094	6.735	3025085	22.315	300	ug/ml
Aliphatic C12-C16	6.736	10.183	14934873	110.677	200	ug/ml
Aliphatic C16-C21	10.184	13.557	21410995	162.314	300	ug/ml
Aliphatic C21-C28	13.558	17.224	7020343	56.535	400	ug/ml
Aliphatic C28-C40	17.225	22.098	55721737	482.728	600	ug/ml
Aliphatic EPH	3.094	22.098	102113033	834.569		ug/ml
ortho-Terphenyl (SURR)	11.844	11.844	5565131	34.24		ug/ml
1-chlorooctadecane (SURR)	13.288	13.288	4350861	36.7		ug/ml
Aliphatic C9-C28	3.094	17.224	46391296	351.841	1200	ug/ml