

Report of Analysis

Client:	PSEG	Date Collected:	01/15/25
Project:	Roseland Switch	Date Received:	01/15/25
Client Sample ID:	RT-3407-E2	SDG No.:	Q1093
Lab Sample ID:	Q1093-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	94.1
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
01/16/25 09:24	01/17/25 9:49	PB166075

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	45.7		2	3.82	4.24	mg/kg FG015110.D
Aliphatic C9-C28	Aliphatic C9-C28	1850		50	91.1	212	mg/kg FG015111.D
Total AliphaticEPH	Total AliphaticEPH	1890			94.9	216	mg/kg
Total EPH	Total EPH	1890			94.9	216	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 :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FG015093.D	1	01/16/25	01/16/25	PB166075

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1800	E	1.82	4.24	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	49.6	E	1.91	2.12	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	27.2		40 - 140	54%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.9		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1093-02	Acq On:	16 Jan 2025 15:54
Client Sample ID:	RT-3407-E2	Operator:	YP\AJ
Data file:	FG015093.D	Misc:	
Instrument:	FID_G	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.184	6.824	1951506	14.685	300	ug/ml
Aliphatic C12-C16	6.825	10.276	579245969	4100	200	ug/ml
Aliphatic C16-C21	10.277	13.654	2131052933	14700	300	ug/ml
Aliphatic C21-C28	13.655	17.329	914450839	6690	400	ug/ml
Aliphatic C28-C40	17.330	22.271	74076189	701.543	600	ug/ml
Aliphatic EPH	3.184	22.271	3700777436	26300		ug/ml
ortho-Terphenyl (SURR)	11.970	11.970	5772168	36.92		ug/ml
1-chlorooctadecane (SURR)	13.417	13.417	3311313	27.19		ug/ml
Aliphatic C9-C28	3.184	17.329	3626701247	25600	1200	ug/ml