

Report of Analysis

Client:	PSEG	Date Collected:	03/20/25
Project:	Roseland Switch	Date Received:	03/20/25
Client Sample ID:	SOIL-PILE	SDG No.:	Q1610
Lab Sample ID:	Q1610-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	86.5
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
03/21/25 09:40	03/21/25 15:18	PB167255

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	9.40		1	1.36	2.31	mg/kg FE052912.D
Aliphatic C9-C28	Aliphatic C9-C28	5.42		1	1.05	4.61	mg/kg FE052912.D
Total AliphaticEPH	Total AliphaticEPH	14.8			2.41	6.92	mg/kg
Total EPH	Total EPH	14.8			2.41	6.92	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
FE052912.D	1	03/21/25	03/21/25	PB167255

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	5.42		1.05	4.61	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	9.40		1.36	2.31	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.1		40 - 140	72%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.5		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1610-02	Acq On:	21 Mar 2025 15:18
Client Sample ID:	SOIL-PILE	Operator:	YP\AJ
Data file:	FE052912.D	Misc:	
Instrument:	FID_E	ALS Vial:	14
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.144	6.788	1742436	11.173	300	ug/ml
Aliphatic C12-C16	6.789	10.240	1944238	12.783	200	ug/ml
Aliphatic C16-C21	10.241	13.619	2412462	16.462	300	ug/ml
Aliphatic C21-C28	13.620	17.290	4281518	30.056	400	ug/ml
Aliphatic C28-C40	17.291	22.206	15595980	122.236	600	ug/ml
Aliphatic EPH	3.144	22.206	25976634	192.71		ug/ml
ortho-Terphenyl (SURR)	11.906	11.906	5820806	34.53		ug/ml
1-chlorooctadecane (SURR)	13.351	13.351	4389953	36.15		ug/ml
Aliphatic C9-C28	3.144	17.290	10380654	70.474	1200	ug/ml