

Report of Analysis

Client:	PSEG	Date Collected:	06/04/25
Project:	Roseland Switch	Date Received:	06/04/25
Client Sample ID:	RBR251425-E2	SDG No.:	Q2214
Lab Sample ID:	Q2214-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	67.5
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
06/05/25 10:10	06/06/25 0:18	PB168301

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	6.99		1	1.75	2.96	mg/kg FG015952.D
Aliphatic C9-C28	Aliphatic C9-C28	196		5	6.74	29.6	mg/kg FG015959.D
Total AliphaticEPH	Total AliphaticEPH	203			8.49	32.6	mg/kg
Total EPH	Total EPH	203			8.49	32.6	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
FG015952.D	1	06/05/25	06/06/25	PB168301

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	184	E	1.35	5.92	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.99		1.75	2.96	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	41.3		40 - 140	83%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	40.1		40 - 140	80%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2214-02	Acq On:	06 Jun 2025 00:18
Client Sample ID:	RBR251425-E2	Operator:	YP\AJ
Data file:	FG015952.D	Misc:	
Instrument:	FID_G	ALS Vial:	38
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.120	6.765	504520	4.444	300	ug/ml
Aliphatic C12-C16	6.766	10.215	24184423	207.191	200	ug/ml
Aliphatic C16-C21	10.216	13.591	161158356	1320	300	ug/ml
Aliphatic C21-C28	13.592	17.262	40759576	339.254	400	ug/ml
Aliphatic C28-C40	17.263	22.162	7820153	70.813	600	ug/ml
Aliphatic EPH	3.120	22.162	234427028	1940		ug/ml
ortho-Terphenyl (SURR)	11.878	11.878	5968910	40.09		ug/ml
1-chlorooctadecane (SURR)	13.323	13.323	4756214	41.29		ug/ml
Aliphatic C9-C28	3.120	17.262	226606875	1870	1200	ug/ml