

Report of Analysis

Client:	PSEG	Date Collected:	08/29/25
Project:	Waverly Substation	Date Received:	08/29/25
Client Sample ID:	CONTAINMENT-A	SDG No.:	Q2996
Lab Sample ID:	Q2996-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
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
09/02/25 10:30	09/03/25 11:23	PB169491

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	49.4		2	2.36	4.00	mg/kg	FG016517.D
Aliphatic C9-C28	Aliphatic C9-C28	1280		50	45.5	200	mg/kg	FG016521.D
Total AliphaticEPH	Total AliphaticEPH	1330			47.9	204	mg/kg	
Total EPH	Total EPH	1330			47.9	204	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
FG016504.D	1	09/02/25	09/02/25	PB169491

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1200	E	0.91	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	41.9	E	1.18	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	47.1		40 - 140	94%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.1		40 - 140	88%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2996-01	Acq On:	02 Sep 2025 17:40
Client Sample ID:	CONTAINMENT-A	Operator:	YP\AJ
Data file:	FG016504.D	Misc:	
Instrument:	FID_G	ALS Vial:	67
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.289	6.931	1359991	11.852	300	ug/ml
Aliphatic C12-C16	6.932	10.390	30449610	259.425	200	ug/ml
Aliphatic C16-C21	10.391	13.780	1087218696	9250	300	ug/ml
Aliphatic C21-C28	13.781	17.465	945390134	8460	400	ug/ml
Aliphatic C28-C40	17.466	22.506	57165922	628.996	600	ug/ml
Aliphatic EPH	3.289	22.506	2121584353	18600		ug/ml
ortho-Terphenyl (SURR)	12.086	12.086	5838512	44.1		ug/ml
1-chlorooctadecane (SURR)	13.547	13.547	4737951	47.07		ug/ml
Aliphatic C9-C28	3.289	17.465	2064418431	18000	1200	ug/ml