

Report of Analysis

Client:	PSEG	Date Collected:	08/27/25
Project:	Locust Street 69kV Breaker	Date Received:	08/27/25
Client Sample ID:	GROUNDWATER	SDG No.:	Q2971
Lab Sample ID:	Q2971-37	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
08/28/25 09:10	08/29/25 22:08	PB169439

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	30.3	U	1	8.36	30.3	ug/l	FG016492.D
Aliphatic C12-C16	Aliphatic C12-C16	20.2	U	1	13.6	20.2	ug/l	FG016492.D
Aliphatic C16-C21	Aliphatic C16-C21	30.3	U	1	8.42	30.3	ug/l	FG016492.D
Aliphatic C21-C28	Aliphatic C21-C28	40.4	U	1	12.6	40.4	ug/l	FG016492.D
Aliphatic C28-C40	Aliphatic C28-C40	85.8		1	24.0	60.6	ug/l	FG016492.D
Aromatic C10-C12	Aromatic C10-C12	7.20	J	1	2.09	20.2	ug/l	FD049711.D
Aromatic C12-C16	Aromatic C12-C16	9.69	J	1	4.30	30.3	ug/l	FD049711.D
Aromatic C16-C21	Aromatic C16-C21	37.3	J	1	8.35	50.5	ug/l	FD049711.D
Aromatic C21-C36	Aromatic C21-C36	66.9	J	1	24.0	80.8	ug/l	FD049711.D
Total AliphaticEPH	Total AliphaticEPH	85.8	J		67.0	182	ug/l	
Total AromaticEPH	Total AromaticEPH	121	J		38.7	182	ug/l	
Total EPH	Total EPH	207	J		106	364	ug/l	

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 :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FD049711.D	1	08/28/25	08/29/25	PB169439

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aromatic C10-C12	Aromatic C10-C12	7.20	J	2.09	20.2	ug/l
Aromatic C12-C16	Aromatic C12-C16	9.69	J	4.30	30.3	ug/l
Aromatic C16-C21	Aromatic C16-C21	37.3	J	8.35	50.5	ug/l
Aromatic C21-C36	Aromatic C21-C36	66.9	J	24.0	80.8	ug/l
SURROGATES						
580-13-2	2-Bromonaphthalene (SURR)	47.8		40 - 140	96%	SPK: 50
321-60-8	2-Fluorobiphenyl (SURR)	44.8		40 - 140	90%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	33.5		40 - 140	67%	SPK: 50

Quantitation Report For Aromatic EPH Range.

Lab Sample ID:	Q2971-37	Acq On:	29 Aug 2025 13:32
Client Sample ID:	GROUNDWATER	Operator:	YP/AJ
Data file:	FD049711.D	Misc:	
Instrument:	FID_D	ALS Vial:	66
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aromatic C10-C12	4.405	6.148	384607	3.563	200	ug/ml
Aromatic C12-C16	6.149	8.777	592600	4.795	300	ug/ml
Aromatic C16-C21	8.778	13.068	2336716	18.474	500	ug/ml
Aromatic C21-C36	13.069	18.488	3728078	33.104	800	ug/ml
Aromatic EPH	4.405	18.488	7042001	59.936		ug/ml
2-Bromonaphthalene (SURRE)	7.714	7.714	4896292	47.77		ug/ml
2-Fluorobiphenyl (SURRE)	8.579	8.579	3274698	44.83		ug/ml
ortho-Terphenyl (SURRE)	11.625	11.625	4342910	33.46		ug/ml