

Report of Analysis

Client:	PSEG	Date Collected:	07/10/25
Project:	Burlington Switching Station	Date Received:	07/10/25
Client Sample ID:	ARS20-0039-E2	SDG No.:	Q2564
Lab Sample ID:	Q2564-06	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93.6
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
07/11/25 09:20	07/14/25 13:24	PB168812

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	56.4		10	12.6	21.3	mg/kg FE054841.D
Aliphatic C9-C28	Aliphatic C9-C28	588		10	9.70	42.7	mg/kg FE054841.D
Total AliphaticEPH	Total AliphaticEPH	644			22.3	64.0	mg/kg
Total EPH	Total EPH	644			22.3	64.0	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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Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE054819.D	1	07/11/25	07/11/25	PB168812

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	532	E	0.97	4.27	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	51.3	E	1.26	2.13	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	33.0		40 - 140	66%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	36.8		40 - 140	74%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q2564-06	Acq On:	11 Jul 2025 19:23
Client Sample ID:	ARS20-0039-E2	Operator:	YP\AJ
Data file:	FE054819.D	Misc:	
Instrument:	FID_E	ALS Vial:	20
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.321	6.954	840172	6.175	300	ug/ml
Aliphatic C12-C16	6.955	10.407	62938642	447.745	200	ug/ml
Aliphatic C16-C21	10.408	13.785	773319032	5360	300	ug/ml
Aliphatic C21-C28	13.786	17.455	245318175	1700	400	ug/ml
Aliphatic C28-C40	17.456	22.481	100200458	722.699	600	ug/ml
Aliphatic EPH	3.321	22.481	1182616479	8230		ug/ml
ortho-Terphenyl (SURR)	12.093	12.093	5974090	36.79		ug/ml
1-chlorooctadecane (SURR)	13.530	13.530	4171871	33.03		ug/ml
Aliphatic C9-C28	3.321	17.455	1082416021	7510	1200	ug/ml