

Report of Analysis

Client:	PSEG	Date Collected:	02/18/25
Project:	Stanley Terrace Substation	Date Received:	02/18/25
Client Sample ID:	ST-1	SDG No.:	Q1385
Lab Sample ID:	Q1385-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
02/19/25 08:55	02/20/25 8:01	PB166773

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	7.80		1	1.80	2.00	mg/kg	FE052416.D
Aliphatic C9-C28	Aliphatic C9-C28	1.77	J	1	1.72	3.99	mg/kg	FE052416.D
Total AliphaticEPH	Total AliphaticEPH	9.57			3.52	5.99	mg/kg	
Total EPH	Total EPH	9.57			3.52	5.99	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
FE052416.D	1	02/19/25	02/20/25	PB166773

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	1.77	J	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	7.80		1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	32.5		40 - 140	65%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	30.1		40 - 140	60%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	Q1385-01	Acq On:	20 Feb 2025 08:01
Client Sample ID:	ST-1	Operator:	YP\AJ
Data file:	FE052416.D	Misc:	
Instrument:	FID_E	ALS Vial:	11
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.155	6.800	788009	5.056	300	ug/ml
Aliphatic C12-C16	6.801	10.254	447540	2.789	200	ug/ml
Aliphatic C16-C21	10.255	13.635	678815	4.229	300	ug/ml
Aliphatic C21-C28	13.636	17.308	4134691	26.606	400	ug/ml
Aliphatic C28-C40	17.309	22.232	15344773	117.149	600	ug/ml
Aliphatic EPH	3.155	22.232	21393828	155.83		ug/ml
ortho-Terphenyl (SURR)	11.925	11.925	5629119	30.11		ug/ml
1-chlorooctadecane (SURR)	13.371	13.371	4518148	32.51		ug/ml
Aliphatic C9-C28	3.155	17.308	6049055	38.68	1200	ug/ml