

Report of Analysis

Client:	PSEG	Date Collected:	10/18/24
Project:	Burlington Switching Station	Date Received:	10/18/24
Client Sample ID:	280517	SDG No.:	P4458
Lab Sample ID:	P4458-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	87.6
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
10/21/24 09:20	10/21/24 19:08	PB164285

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	28.7		1	2.05	2.28	mg/kg	FE050749.D
Aliphatic C9-C28	Aliphatic C9-C28	4.23	J	1	1.96	4.56	mg/kg	FE050749.D
Total AliphaticEPH	Total AliphaticEPH	32.9			4.01	6.84	mg/kg	
Total EPH	Total EPH	32.9			4.01	6.84	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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File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE050749.D	1	10/21/24	10/21/24	PB164285

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	4.23	J	1.96	4.56	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	28.7		2.05	2.28	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	36.8		40 - 140	74%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.4		40 - 140	69%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4458-01	Acq On:	21 Oct 2024 19:08
Client Sample ID:	280517	Operator:	YP\AJ
Data file:	FE050749.D	Misc:	
Instrument:	FID_E	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.152	6.770	381730	2.671	300	ug/ml
Aliphatic C12-C16	6.771	10.205	1911785	13.174	200	ug/ml
Aliphatic C16-C21	10.206	13.566	2770608	19.187	300	ug/ml
Aliphatic C21-C28	13.567	17.223	3313523	23.309	400	ug/ml
Aliphatic C28-C40	17.224	22.084	52287211	378.062	600	ug/ml
Aliphatic EPH	3.152	22.084	60664857	436.403		ug/ml
ortho-Terphenyl (SURR)	11.866	11.866	5425937	34.42		ug/ml
1-chlorooctadecane (SURR)	13.301	13.301	4350895	36.78		ug/ml
Aliphatic C9-C28	3.152	17.223	8377646	58.341	1200	ug/ml