

Report of Analysis

Client:	PSEG	Date Collected:	10/23/24
Project:	Bergen Point 69kV - 4KV-13KV Conversion Project OP	Date Received:	10/23/24
Client Sample ID:	TP-3-EPH	SDG No.:	P4508
Lab Sample ID:	P4508-02	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	91.6
Sample Wt/Vol:	30.05	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/24/24 10:10	10/24/24 18:16	PB164367

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	8.18		1	1.96	2.18	mg/kg	FE050821.D
Aliphatic C9-C28	Aliphatic C9-C28	3.22	J	1	1.88	4.36	mg/kg	FE050821.D
Total AliphaticEPH	Total AliphaticEPH	11.4			3.84	6.54	mg/kg	
Total EPH	Total EPH	11.4			3.84	6.54	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
FE050821.D	1	10/24/24	10/24/24	PB164367

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	3.22	J	1.88	4.36	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	8.18		1.96	2.18	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	47.4		40 - 140	95%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	44.5		40 - 140	89%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4508-02	Acq On:	24 Oct 2024 18:16
Client Sample ID:	TP-3-EPH	Operator:	YP\AJ
Data file:	FE050821.D	Misc:	
Instrument:	FID_E	ALS Vial:	18
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.147	6.766	1220933	8.544	300	ug/ml
Aliphatic C12-C16	6.767	10.198	897835	6.187	200	ug/ml
Aliphatic C16-C21	10.199	13.559	1297535	8.986	300	ug/ml
Aliphatic C21-C28	13.560	17.216	2941115	20.69	400	ug/ml
Aliphatic C28-C40	17.217	22.066	15578918	112.643	600	ug/ml
Aliphatic EPH	3.147	22.066	21936336	157.049		ug/ml
ortho-Terphenyl (SURR)	11.859	11.859	7017506	44.51		ug/ml
1-chlorooctadecane (SURR)	13.293	13.293	5611456	47.44		ug/ml
Aliphatic C9-C28	3.147	17.216	6357418	44.407	1200	ug/ml