

Report of Analysis

Client:	PSEG	Date Collected:	10/21/24
Project:	Cedar Grove Switching Station	Date Received:	10/21/24
Client Sample ID:	ETGI-329	SDG No.:	P4468
Lab Sample ID:	P4468-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	93
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
10/22/24 08:39	10/22/24 17:36	PB164308

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.75		1	1.93	2.15	mg/kg	FE050769.D
Aliphatic C9-C28	Aliphatic C9-C28	4.29	U	1	1.85	4.29	mg/kg	FE050769.D
Total AliphaticEPH	Total AliphaticEPH	6.75			3.78	6.43	mg/kg	
Total EPH	Total EPH	6.75			3.78	6.43	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
FE050769.D	1	10/22/24	10/22/24	PB164308

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.85	4.29	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.75		1.93	2.15	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	43.4		40 - 140	87%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	41.5		40 - 140	83%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4468-03	Acq On:	22 Oct 2024 17:36
Client Sample ID:	ETGI-329	Operator:	YP\AJ
Data file:	FE050769.D	Misc:	
Instrument:	FID_E	ALS Vial:	19
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.150	6.769	380711	2.664	300	ug/ml
Aliphatic C12-C16	6.770	10.202	798674	5.504	200	ug/ml
Aliphatic C16-C21	10.203	13.562	1111998	7.701	300	ug/ml
Aliphatic C21-C28	13.563	17.219	1764998	12.416	400	ug/ml
Aliphatic C28-C40	17.220	22.072	13041997	94.3	600	ug/ml
Aliphatic EPH	3.150	22.072	17098378	122.585		ug/ml
ortho-Terphenyl (SURR)	11.863	11.863	6549166	41.54		ug/ml
1-chlorooctadecane (SURR)	13.296	13.296	5133896	43.4		ug/ml
Aliphatic C9-C28	3.150	17.219	4056381	28.285	1200	ug/ml