

Report of Analysis

Client:	PSEG	Date Collected:	12/03/24
Project:	V-2327 Manhole Inspection	Date Received:	12/03/24
Client Sample ID:	A3988-SLUDGE	SDG No.:	P5069
Lab Sample ID:	P5069-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	13.9
Sample Wt/Vol:	30.04	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
12/04/24 08:18	12/04/24 18:10	PB165355

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	35.9		1	12.9	14.4	mg/kg	FE051536.D
Aliphatic C9-C28	Aliphatic C9-C28	16.3	J	1	12.4	28.7	mg/kg	FE051536.D
Total AliphaticEPH	Total AliphaticEPH	52.2			25.3	43.1	mg/kg	
Total EPH	Total EPH	52.2			25.3	43.1	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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Analytical Method:	NJEPH	% Solid:	13.9
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH_NF
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051536.D	1	12/04/24	12/04/24	PB165355

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	16.3	J	12.4	28.7	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	35.9		12.9	14.4	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.2		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	34.0		40 - 140	68%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5069-01	Acq On:	04 Dec 2024 18:10
Client Sample ID:	A3988-SLUDGE	Operator:	YP\AJ
Data file:	FE051536.D	Misc:	
Instrument:	FID_E	ALS Vial:	21
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.122	6.735	1939052	13.71	300	ug/ml
Aliphatic C12-C16	6.736	10.167	1289115	9.16	200	ug/ml
Aliphatic C16-C21	10.168	13.525	1545113	11.108	300	ug/ml
Aliphatic C21-C28	13.526	17.179	1308867	10.006	400	ug/ml
Aliphatic C28-C40	17.180	22.010	8031307	74.989	600	ug/ml
Aliphatic EPH	3.122	22.010	14113454	118.973		ug/ml
ortho-Terphenyl (SURR)	11.828	11.828	5144561	34.04		ug/ml
1-chlorooctadecane (SURR)	13.262	13.262	4268965	38.2		ug/ml
Aliphatic C9-C28	3.122	17.179	6082147	43.984	1200	ug/ml