

Report of Analysis

Client:	PSEG	Date Collected:	12/13/24
Project:	Metuchen Switch	Date Received:	12/13/24
Client Sample ID:	STONES-B-E2	SDG No.:	P5287
Lab Sample ID:	P5287-04	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Prep Method :		Final Vol:	2000
		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
12/17/24 08:20	12/18/24 8:09	PB165681

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS							
Aliphatic C28-C40	Aliphatic C28-C40	312		10	18.0	20.0	mg/kg FC068037.D
Aliphatic C9-C28	Aliphatic C9-C28	284		10	17.2	39.9	mg/kg FC068037.D
Total AliphaticEPH	Total AliphaticEPH	596			35.2	59.9	mg/kg
Total EPH	Total EPH	596			35.2	59.9	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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Sample Wt/Vol:	30.03 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
FC068018.D	1	12/17/24	12/17/24	PB165681

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	269	E	1.72	3.99	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	287	E	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	35.5		40 - 140	71%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	32.6		40 - 140	65%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P5287-04	Acq On:	17 Dec 2024 16:24
Client Sample ID:	STONES-B-E2	Operator:	YP/AJ
Data file:	FC068018.D	Misc:	
Instrument:	FID_C	ALS Vial:	17
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.148	6.425	1452836	9.178	300	ug/ml
Aliphatic C12-C16	6.426	9.816	979205	6.11	200	ug/ml
Aliphatic C16-C21	9.817	13.174	218920241	1440	300	ug/ml
Aliphatic C21-C28	13.175	16.828	352780150	2590	400	ug/ml
Aliphatic C28-C40	16.829	21.659	457468746	4320	600	ug/ml
Aliphatic EPH	3.148	21.659	1031601178	8360		ug/ml
ortho-Terphenyl (SURR)	11.460	11.460	5644113	32.64		ug/ml
1-chlorooctadecane (SURR)	12.909	12.909	4523710	35.45		ug/ml
Aliphatic C9-C28	3.148	16.828	574132432	4040	1200	ug/ml