

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	05/07/24
Project:	LOD-LOQ Study	Date Received:	05/07/24
Client Sample ID:	LOD-MDL-SOIL-01-QT2-2024	SDG No.:	P2403
Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/09/24 09:40	05/11/24 12:28	PB160813

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.46	J	1	0.38	1.00	mg/kg	FF014206.D
Aliphatic C12-C16	Aliphatic C12-C16	0.33	J	1	0.24	0.67	mg/kg	FF014206.D
Aliphatic C16-C21	Aliphatic C16-C21	0.55	J	1	0.30	1.00	mg/kg	FF014206.D
Aliphatic C21-C28	Aliphatic C21-C28	0.86	J	1	0.80	1.33	mg/kg	FF014206.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FF014206.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	5.99	mg/kg	

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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Client:	Chemtech Consulting Group	Date Collected:	05/07/24
Project:	LOD-LOQ Study	Date Received:	05/07/24
Client Sample ID:	LOD-MDL-SOIL-01-QT2-2024	SDG No.:	P2403
Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/09/24 08:00	05/13/24 16:23	PB160813

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.41	J	1	0.38	1.00	mg/kg	FD047740.D
Aliphatic C12-C16	Aliphatic C12-C16	0.32	J	1	0.24	0.67	mg/kg	FD047740.D
Aliphatic C16-C21	Aliphatic C16-C21	0.49	J	1	0.30	1.00	mg/kg	FD047740.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FD047740.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FD047740.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	5.99	mg/kg	

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Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/09/24 08:00	05/13/24 16:23	PB160813

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.41	J	1	0.38	1.00	mg/kg	FD047740.D
Aliphatic C12-C16	Aliphatic C12-C16	0.32	J	1	0.24	0.67	mg/kg	FD047740.D
Aliphatic C16-C21	Aliphatic C16-C21	0.49	J	1	0.30	1.00	mg/kg	FD047740.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FD047740.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FD047740.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	5.99	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	05/07/24
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Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/09/24 08:00	05/13/24 16:23	PB160813

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.41	J	1	0.38	1.00	mg/kg	FD047740.D
Aliphatic C12-C16	Aliphatic C12-C16	0.32	J	1	0.24	0.67	mg/kg	FD047740.D
Aliphatic C16-C21	Aliphatic C16-C21	0.49	J	1	0.30	1.00	mg/kg	FD047740.D
Aliphatic C21-C28	Aliphatic C21-C28	1.33	U	1	0.80	1.33	mg/kg	FD047740.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.80	2.00	mg/kg	FD047740.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		3.52	5.99	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	05/07/24
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Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/09/24 09:40	05/10/24 19:27	PB160813

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.47	J	1	0.38	1.00	mg/kg	FG013810.D
Aliphatic C12-C16	Aliphatic C12-C16	0.34	J	1	0.24	0.67	mg/kg	FG013810.D
Aliphatic C16-C21	Aliphatic C16-C21	0.56	J	1	0.30	1.00	mg/kg	FG013810.D
Aliphatic C21-C28	Aliphatic C21-C28	0.89	J	1	0.80	1.33	mg/kg	FG013810.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.80	2.00	mg/kg	FG013810.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		3.52	5.99	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	05/07/24
Client Sample ID:	LOD-MDL-SOIL-01-QT2-2024	SDG No.:	P2403
Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/09/24 09:40	05/11/24 3:41	PB160813

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.54	J	1	0.38	1.00	mg/kg	FE048108.D
Aliphatic C12-C16	Aliphatic C12-C16	0.38	J	1	0.24	0.67	mg/kg	FE048108.D
Aliphatic C16-C21	Aliphatic C16-C21	0.64	J	1	0.30	1.00	mg/kg	FE048108.D
Aliphatic C21-C28	Aliphatic C21-C28	1.02	J	1	0.80	1.33	mg/kg	FE048108.D
Aliphatic C28-C40	Aliphatic C28-C40	1.98	J	1	1.80	2.00	mg/kg	FE048108.D
Total AliphaticEPH	Total AliphaticEPH	4.55	J		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	4.55	J		3.52	5.99	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	05/07/24
Client Sample ID:	LOD-MDL-SOIL-01-QT2-2024	SDG No.:	P2403
Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/09/24 09:40	05/10/24 15:48	PB160813

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	J	1	0.38	1.00	mg/kg	FC066378.D
Aliphatic C12-C16	Aliphatic C12-C16	0.33	J	1	0.24	0.67	mg/kg	FC066378.D
Aliphatic C16-C21	Aliphatic C16-C21	0.52	J	1	0.30	1.00	mg/kg	FC066378.D
Aliphatic C21-C28	Aliphatic C21-C28	1.33	U	1	0.80	1.33	mg/kg	FC066378.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.80	2.00	mg/kg	FC066378.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		3.52	5.99	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	05/07/24
Client Sample ID:	LOD-MDL-SOIL-01-QT2-2024	SDG No.:	P2403
Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/09/24 09:40	05/10/24 15:48	PB160813

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	J	1	0.38	1.00	mg/kg	FC066378.D
Aliphatic C12-C16	Aliphatic C12-C16	0.33	J	1	0.24	0.67	mg/kg	FC066378.D
Aliphatic C16-C21	Aliphatic C16-C21	0.52	J	1	0.30	1.00	mg/kg	FC066378.D
Aliphatic C21-C28	Aliphatic C21-C28	1.33	U	1	0.80	1.33	mg/kg	FC066378.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.80	2.00	mg/kg	FC066378.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		3.52	5.99	mg/kg	

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Client:	Chemtech Consulting Group	Date Collected:	05/07/24
Project:	LOD-LOQ Study	Date Received:	05/07/24
Client Sample ID:	LOD-MDL-SOIL-01-QT2-2024	SDG No.:	P2403
Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
05/09/24 09:40	05/10/24 15:48	PB160813

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.43	J	1	0.38	1.00	mg/kg	FC066378.D
Aliphatic C12-C16	Aliphatic C12-C16	0.33	J	1	0.24	0.67	mg/kg	FC066378.D
Aliphatic C16-C21	Aliphatic C16-C21	0.52	J	1	0.30	1.00	mg/kg	FC066378.D
Aliphatic C21-C28	Aliphatic C21-C28	1.33	U	1	0.80	1.33	mg/kg	FC066378.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.80	2.00	mg/kg	FC066378.D
Total AliphaticEPH	Total AliphaticEPH	5.99	U		3.52	5.99	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	5.99	U		3.52	5.99	mg/kg	

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Client:	Chemtech Consulting Group	Date Collected:	05/07/24
Project:	LOD-LOQ Study	Date Received:	05/07/24
Client Sample ID:	LOD-MDL-SOIL-01-QT2-2024	SDG No.:	P2403
Lab Sample ID:	P2403-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.04 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC066379.D	1	05/09/24	05/10/24	PB160813

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.60	J	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.46	J	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.74	J	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	1.03	J	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	45.3		40 - 140	91%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P2403-01	Acq On:	10 May 2024 16:28
Client Sample ID:	LOD-MDL-SOIL-01-QT2-	Operator:	YP/AJ
Data file:	FC066379.D	Misc:	
Instrument:	FID_C	ALS Vial:	22
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.213	6.503	1372779	8.982	300	ug/ml
Aliphatic C12-C16	6.504	9.902	1047965	6.889	200	ug/ml
Aliphatic C16-C21	9.903	13.267	1616226	11.115	300	ug/ml
Aliphatic C21-C28	13.268	16.929	2137193	15.501	400	ug/ml
Aliphatic C28-C40	16.930	21.822	2907122	24.51	600	ug/ml
Aliphatic EPH	3.213	21.822	9081285	66.998		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	13.001	13.001	5556849	45.3		ug/ml
Aliphatic C9-C28	3.213	16.929	6174163	42.487	1200	ug/ml