

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	10/09/24
Project:	LOD-LOQ Study	Date Received:	10/09/24
Client Sample ID:	LOD-MDL-SOIL-01-QT4-2024	SDG No.:	P4368
Lab Sample ID:	P4368-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 08:00	10/14/24 17:56	PB164054

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.00	U	1	0.38	1.00	mg/kg	FF014667.D
Aliphatic C12-C16	Aliphatic C12-C16	0.67	U	1	0.24	0.67	mg/kg	FF014667.D
Aliphatic C16-C21	Aliphatic C16-C21	0.40	J	1	0.30	1.00	mg/kg	FF014667.D
Aliphatic C21-C28	Aliphatic C21-C28	0.88	J	1	0.80	1.33	mg/kg	FF014667.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.80	2.00	mg/kg	FF014667.D
Total AliphaticEPH	Total AliphaticEPH	6.00	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	6.00	U		3.52	6.00	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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Soil Aliquot Vol:	uL	Test:	EPH
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TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.00	U	1	0.38	1.00	mg/kg	FF014667.D
Aliphatic C12-C16	Aliphatic C12-C16	0.67	U	1	0.24	0.67	mg/kg	FF014667.D
Aliphatic C16-C21	Aliphatic C16-C21	0.40	J	1	0.30	1.00	mg/kg	FF014667.D
Aliphatic C21-C28	Aliphatic C21-C28	0.88	J	1	0.80	1.33	mg/kg	FF014667.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.80	2.00	mg/kg	FF014667.D
Total AliphaticEPH	Total AliphaticEPH	6.00	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	6.00	U		3.52	6.00	mg/kg	

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Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 08:00	10/14/24 19:23	PB164054

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	1.00	U	1	0.38	1.00	mg/kg	FG014440.D
Aliphatic C12-C16	Aliphatic C12-C16	0.67	U	1	0.24	0.67	mg/kg	FG014440.D
Aliphatic C16-C21	Aliphatic C16-C21	0.47	J	1	0.30	1.00	mg/kg	FG014440.D
Aliphatic C21-C28	Aliphatic C21-C28	1.17	J	1	0.80	1.33	mg/kg	FG014440.D
Aliphatic C28-C40	Aliphatic C28-C40	2.00	U	1	1.80	2.00	mg/kg	FG014440.D
Total AliphaticEPH	Total AliphaticEPH	6.00	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	6.00	U		3.52	6.00	mg/kg	

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Lab Sample ID:	P4368-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 08:00	10/14/24 19:23	PB164054

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FG014440.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FG014440.D
Aliphatic C16-C21	Aliphatic C16-C21	0.47	J	1	0.30	1.00	mg/kg	FG014440.D
Aliphatic C21-C28	Aliphatic C21-C28	1.17	J	1	0.80	1.33	mg/kg	FG014440.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FG014440.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	6.00	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	10/09/24
Client Sample ID:	LOD-MDL-SOIL-01-QT4-2024	SDG No.:	P4368
Lab Sample ID:	P4368-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 08:20	10/15/24 3:26	PB164054

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.60	J	1	0.38	1.00	mg/kg	FE050658.D
Aliphatic C12-C16	Aliphatic C12-C16	0.46	J	1	0.24	0.67	mg/kg	FE050658.D
Aliphatic C16-C21	Aliphatic C16-C21	0.72	J	1	0.30	1.00	mg/kg	FE050658.D
Aliphatic C21-C28	Aliphatic C21-C28	0.97	J	1	0.80	1.33	mg/kg	FE050658.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FE050658.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:	10/09/24
Client Sample ID:	LOD-MDL-SOIL-01-QT4-2024	SDG No.:	P4368
Lab Sample ID:	P4368-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 08:20	10/12/24 10:26	PB164054

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.50	J	1	0.38	1.00	mg/kg	FD048477.D
Aliphatic C12-C16	Aliphatic C12-C16	0.67		1	0.24	0.67	mg/kg	FD048477.D
Aliphatic C16-C21	Aliphatic C16-C21	0.84	J	1	0.30	1.00	mg/kg	FD048477.D
Aliphatic C21-C28	Aliphatic C21-C28	1.26	J	1	0.80	1.33	mg/kg	FD048477.D
Aliphatic C28-C40	Aliphatic C28-C40	5.55		1	1.80	2.00	mg/kg	FD048477.D
Total AliphaticEPH	Total AliphaticEPH	8.82			3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	8.82			3.52	6.00	mg/kg	

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Project:	LOD-LOQ Study	Date Received:	10/09/24
Client Sample ID:	LOD-MDL-SOIL-01-QT4-2024	SDG No.:	P4368
Lab Sample ID:	P4368-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

Prep Date :	Date Analyzed :	Prep Batch ID
10/11/24 08:00	10/11/24 22:44	PB164054

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	0.38	U	1	0.38	1.00	mg/kg	FC067412.D
Aliphatic C12-C16	Aliphatic C12-C16	0.24	U	1	0.24	0.67	mg/kg	FC067412.D
Aliphatic C16-C21	Aliphatic C16-C21	0.39	J	1	0.30	1.00	mg/kg	FC067412.D
Aliphatic C21-C28	Aliphatic C21-C28	0.80	U	1	0.80	1.33	mg/kg	FC067412.D
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1	1.80	2.00	mg/kg	FC067412.D
Total AliphaticEPH	Total AliphaticEPH	3.52	U		3.52	6.00	mg/kg	
Total AromaticEPH	Total AromaticEPH	0	U		0	0	mg/kg	
Total EPH	Total EPH	3.52	U		3.52	6.00	mg/kg	

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Client:	Chemtech Consulting Group	Date Collected:	10/09/24
Project:	LOD-LOQ Study	Date Received:	10/09/24
Client Sample ID:	LOD-MDL-SOIL-01-QT4-2024	SDG No.:	P4368
Lab Sample ID:	P4368-01	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC067413.D	1	10/11/24	10/11/24	PB164054

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	0.45	J	0.38	1.00	mg/kg
Aliphatic C12-C16	Aliphatic C12-C16	0.36	J	0.24	0.67	mg/kg
Aliphatic C16-C21	Aliphatic C16-C21	0.60	J	0.30	1.00	mg/kg
Aliphatic C21-C28	Aliphatic C21-C28	0.85	J	0.80	1.33	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	1.80	U	1.80	2.00	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	39.2		40 - 140	78%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4368-01	Acq On:	11 Oct 2024 23:21
Client Sample ID:	LOD-MDL-SOIL-01-QT4-	Operator:	YP/AJ
Data file:	FC067413.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	3.175	6.457	868658	6.768	300	ug/ml
Aliphatic C12-C16	6.458	9.848	708409	5.409	200	ug/ml
Aliphatic C16-C21	9.849	13.207	1186655	9.026	300	ug/ml
Aliphatic C21-C28	13.208	16.862	1618247	12.76	400	ug/ml
Aliphatic C28-C40	16.863	21.712	2689981	25.566	600	ug/ml
Aliphatic EPH	3.175	21.712	7071950	59.529		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.943	12.943	4434399	39.18		ug/ml
Aliphatic C9-C28	3.175	16.862	4381969	33.963	1200	ug/ml