

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	07/11/23
Project:	LOD-LOQ Study	Date Received:	07/11/23
Client Sample ID:	LOD-MDL-WATER-01-QT3-2023	SDG No.:	O3572
Lab Sample ID:	O3572-07	Matrix:	Water
Analytical Method:	NJEPH	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
08/03/23 08:00	08/10/23 17:40	PB154616

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	15.6	J	1	6.87	30.0	ug/l	FG012672.D
Aliphatic C12-C16	Aliphatic C12-C16	10.7	J	1	3.59	20.0	ug/l	FG012672.D
Aliphatic C16-C21	Aliphatic C16-C21	16.4	J	1	4.10	30.0	ug/l	FG012672.D
Aliphatic C21-C28	Aliphatic C21-C28	21.6	J	1	7.08	40.0	ug/l	FG012672.D
Aliphatic C28-C40	Aliphatic C28-C40	31.8	J	1	16.7	60.0	ug/l	FG012672.D
Aromatic C10-C12	Aromatic C10-C12	8.95	J	1	4.66	20.0	ug/l	FD046286.D
Aromatic C12-C16	Aromatic C12-C16	13.2	J	1	6.05	30.0	ug/l	FD046286.D
Aromatic C16-C21	Aromatic C16-C21	21.7	J	1	14.7	50.0	ug/l	FD046286.D
Aromatic C21-C36	Aromatic C21-C36	27.7	J	1	19.4	80.0	ug/l	FD046286.D
Total AliphaticEPH	Total AliphaticEPH	96.1	J		38.3	180	ug/l	
Total AromaticEPH	Total AromaticEPH	71.5	J		44.8	180	ug/l	
Total EPH	Total EPH	168	J		83.2	360	ug/l	

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

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TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	22.7	J	1	6.87	30.0	ug/l	FF013185.D
Aliphatic C12-C16	Aliphatic C12-C16	15.4	J	1	3.59	20.0	ug/l	FF013185.D
Aliphatic C16-C21	Aliphatic C16-C21	23.4	J	1	4.10	30.0	ug/l	FF013185.D
Aliphatic C21-C28	Aliphatic C21-C28	30.9	J	1	7.08	40.0	ug/l	FF013185.D
Aliphatic C28-C40	Aliphatic C28-C40	45.5	J	1	16.7	60.0	ug/l	FF013185.D
Aromatic C10-C12	Aromatic C10-C12	8.95	J	1	4.66	20.0	ug/l	FD046286.D
Aromatic C12-C16	Aromatic C12-C16	13.2	J	1	6.05	30.0	ug/l	FD046286.D
Aromatic C16-C21	Aromatic C16-C21	21.7	J	1	14.7	50.0	ug/l	FD046286.D
Aromatic C21-C36	Aromatic C21-C36	27.7	J	1	19.4	80.0	ug/l	FD046286.D
Total AliphaticEPH	Total AliphaticEPH	138	J		38.3	180	ug/l	
Total AromaticEPH	Total AromaticEPH	71.5	J		44.8	180	ug/l	
Total EPH	Total EPH	209	J		83.2	360	ug/l	

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Prep Method :	SW3510		

Prep Date :	Date Analyzed :	Prep Batch ID
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CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units	
TARGETS								
Aliphatic C9-C12	Aliphatic C9-C12	9.73	J	1	6.87	30.0	ug/l	FC064336.D
Aliphatic C12-C16	Aliphatic C12-C16	6.44	J	1	3.59	20.0	ug/l	FC064336.D
Aliphatic C16-C21	Aliphatic C16-C21	14.9	J	1	4.10	30.0	ug/l	FC064336.D
Aliphatic C21-C28	Aliphatic C21-C28	15.1	J	1	7.08	40.0	ug/l	FC064336.D
Aliphatic C28-C40	Aliphatic C28-C40	17.0	J	1	16.7	60.0	ug/l	FC064336.D
Aromatic C10-C12	Aromatic C10-C12	8.95	J	1	4.66	20.0	ug/l	FD046286.D
Aromatic C12-C16	Aromatic C12-C16	13.2	J	1	6.05	30.0	ug/l	FD046286.D
Aromatic C16-C21	Aromatic C16-C21	21.7	J	1	14.7	50.0	ug/l	FD046286.D
Aromatic C21-C36	Aromatic C21-C36	27.7	J	1	19.4	80.0	ug/l	FD046286.D
Total AliphaticEPH	Total AliphaticEPH	63.2	J		38.3	180	ug/l	
Total AromaticEPH	Total AromaticEPH	71.5	J		44.8	180	ug/l	
Total EPH	Total EPH	135	J		83.2	360	ug/l	

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Aromatic C12-C16	Aromatic C12-C16	13.2	J	1	6.05	30.0	ug/l	FD046286.D
Aromatic C16-C21	Aromatic C16-C21	21.7	J	1	14.7	50.0	ug/l	FD046286.D
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Total AliphaticEPH	Total AliphaticEPH	63.2	J		38.3	180	ug/l	
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284 Sheffield Street, Mountainside NJ 07092 Phone: 908 789 8900 Fax : 908 789 8922

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Lab Sample ID:	O3572-07	Matrix:	Water
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Sample Wt/Vol:	1000 Units: mL	Final Vol:	2000 uL
Soil Aliquot Vol:	uL	Test:	EPH
Prep Method :	SW3510		

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FC064337.D	1	08/03/23	08/07/23	PB154616

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C12	Aliphatic C9-C12	16.9	J	6.87	30.0	ug/l
Aliphatic C12-C16	Aliphatic C12-C16	11.3	J	3.59	20.0	ug/l
Aliphatic C16-C21	Aliphatic C16-C21	21.7	J	4.10	30.0	ug/l
Aliphatic C21-C28	Aliphatic C21-C28	24.4	J	7.08	40.0	ug/l
Aliphatic C28-C40	Aliphatic C28-C40	31.0	J	16.7	60.0	ug/l
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	40.6		40 - 140	81%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	0.00		40 - 140	0%	SPK: 50



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Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	O3572-07	Acq On:	07 Aug 2023 14:50
Client Sample ID:	LOD-MDL-WATER-01-QT	Operator:	YP/AJ
Data file:	FC064337.D	Misc:	LOD 4 PPM
Instrument:	FID_C	ALS Vial:	5
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic C9-C12	3.207	6.479	1378469	8.456	300	ug/ml
Aliphatic C12-C16	6.480	9.864	888690	5.656	200	ug/ml
Aliphatic C16-C21	9.865	13.215	1637780	10.831	300	ug/ml
Aliphatic C21-C28	13.216	16.862	1693874	12.217	400	ug/ml
Aliphatic C28-C40	16.863	21.694	2130017	15.51	600	ug/ml
Aliphatic EPH	3.207	21.694	7728830	52.67		ug/ml
ortho-Terphenyl (SURR)	0.000	0.000	0	0		ug/ml
1-chlorooctadecane (SURR)	12.950	12.950	5116245	40.57		ug/ml
Aliphatic C9-C28	3.207	16.862	5598813	37.16	1200	ug/ml