

ENVIROTEK LABORATORY, LLC.

1041 Glassboro Road Suite E-4, Williamstown NJ 08094

PHONE 856-533-0445 www.enviroteklab.com

EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

Send To:

Sean Ellis

KLT Filtration Ltd.

Stuary Road, Kings Lynn

Norfolk, BG 43235

44(0) 1553-622007

Result: Passed

Date: 04/20/2021

Tested To: NSF/ANSI Std. 53 – Haloacetic Acids Reduction Testing

Description: CF521

Test Type: Qualification

Project Manager: Jaime Young

Thank you for having your product tested by Envirotek Laboratory, LLC.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization

Jaime A. Young

Jaime A. Young
Lab Director

Date: 04/20/2021

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NSF/ANSI Std. 53 – Haloacetic Acids Reduction Testing: Passed

Company's Name: KLT Filtration Ltd.

Product: Inline Filter

Flow Rate: 2.5 LPM

Filter Capacity: 10,000 Liters

Conditioning Procedure: Flush for 5 minutes

Cycle: 50/50

Performance Indicator Device: No, test to 100% Capacity

Test Description: NSF/ANSI Std. 53 – Haloacetic Acids Reduction Testing

Trade Designation/Model Number: CF521

Unit Volume: 0.1 L

Performance Standard: NSF/ANSI Std 600 – 2019

Pass/Fail Criteria (Maximum Product Water Concentration):

Monochloroacetic acid: 6 µg/L *Monobromoacetic acid:* 6 µg/L

Dichloroacetic acid: 0.7 µg/L *Bromochloroacetic acid:* 6 µg/L

Trichloroacetic acid: 6 µg/L

As per NSF/ANSI Std 600/EPA primary drinking water standard

Decision Rule: Simple Acceptance based on the NSF/ANSI/EPA drinking water limits

Water Characteristics Filter 1

Sample Point	pH (7.5±0.5)	Temperature (20±3°C)	TDS (200 to 500 mg/L)	TOC (≥1.0 mg/L)	Turbidity (<1 NTU)
10 UV	7.2	17.8	249	1.1	0.41
5%	7.2	17.9	250	1.1	0.42
10%	7.2	17.9	250	1.1	0.41
15%	7.2	17.8	248	1.1	0.42
20%	7.3	18.0	249	1.1	0.42
25%	7.3	18.1	248	1.1	0.42
30%	7.3	18.2	250	1.1	0.42
35%	7.3	18.2	250	1.1	0.42
40%	7.2	18.1	250	1.1	0.43
45%	7.2	18.0	249	1.1	0.43
50%	7.2	18.2	255	1.1	0.43
55%	7.3	18.2	255	1.1	0.44
60%	7.4	18.1	253	1.1	0.44
65%	7.3	18.2	250	1.1	0.45
70%	7.5	17.9	251	1.1	0.46
75%	7.5	18.2	253	1.1	0.45
80%	7.3	17.9	251	1.1	0.44
85%	7.3	18.0	252	1.1	0.44
90%	7.1	18.1	251	1.1	0.46
95%	7.2	18.5	253	1.1	0.46
100%	7.4	18.3	255	1.1	0.45
Average	7.3	18.1	251	1.1	0.43

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Filter Data Summary Tables

Monochloroacetic Acid			
Accumulated Volume(L)	Influent Concentration µg/L	Effluent Concentration µg/L	Pass/Failed
10 UV	36.7	<0.1	Pass
500	25.6	<0.1	Pass
1000	24.7	<0.1	Pass
1500	25.7	<0.1	Pass
2000	24.3	<0.1	Pass
2500	24.1	<0.1	Pass
3000	23.5	<0.1	Pass
3500	57.1	<0.1	Pass
4000	42.9	<0.1	Pass
4500	67.1	<0.1	Pass
5000	58.7	<0.1	Pass
5500	59.2	2.1	Pass
6000	56.2	0.7	Pass
6500	41.8	0.1	Pass
7000	50.2	<0.1	Pass
7500	54.7	0.1	Pass
8000	51.7	0.2	Pass
8500	48.6	0.2	Pass
9000	19.5	0.1	Pass
9500	37.2	0.2	Pass
10000	45.9	0.2	Pass

Bromochloroacetic Acid			
Accumulated Volume(L)	Influent Concentration µg/L	Effluent Concentration µg/L	Pass/Failed
10 UV	23.4	<0.1	Pass
500	22.2	<0.1	Pass
1000	24.1	<0.1	Pass
1500	21.8	<0.1	Pass
2000	21.8	<0.1	Pass
2500	26.8	<0.1	Pass
3000	22.0	<0.1	Pass
3500	49.7	<0.1	Pass
4000	50.3	<0.1	Pass
4500	50.3	<0.1	Pass
5000	50.6	<0.1	Pass
5500	50	0.1	Pass
6000	50.1	0.6	Pass
6500	48.5	1.1	Pass
7000	50.7	0.1	Pass
7500	50.7	0.1	Pass
8000	50.8	0.1	Pass
8500	51.3	0.1	Pass
9000	44.6	0.1	Pass
9500	46	0.1	Pass
10000	51.3	0.1	Pass

Monobromoacetic Acid			
Accumulated Volume(L)	Influent Concentration µg/L	Effluent Concentration µg/L	Pass/Failed
10 UV	37.6	<0.1	Pass
500	52.7	<0.1	Pass
1000	52.1	<0.1	Pass
1500	53.1	<0.1	Pass
2000	52.3	<0.1	Pass
2500	43.5	<0.1	Pass
3000	54.1	<0.1	Pass
3500	49.9	<0.1	Pass
4000	50.1	<0.1	Pass
4500	48.9	<0.1	Pass
5000	49.9	<0.1	Pass
5500	49.1	<0.1	Pass
6000	49	0.5	Pass
6500	39.6	0.7	Pass
7000	48.6	0.2	Pass
7500	49.6	0.1	Pass
8000	49.3	<0.1	Pass
8500	27.1	<0.1	Pass
9000	26.8	0.1	Pass
9500	26.9	0.1	Pass
10000	26.2	<0.1	Pass

Trichloroacetic Acid			
Accumulated Volume(L)	Influent Concentration µg/L	Effluent Concentration µg/L	Pass/Failed
10 UV	16.3	<0.1	Pass
500	25.5	<0.1	Pass
1000	21.7	<0.1	Pass
1500	25.6	<0.1	Pass
2000	25.7	<0.1	Pass
2500	20.0	<0.1	Pass
3000	25.7	<0.1	Pass
3500	49.8	<0.1	Pass
4000	50.2	<0.1	Pass
4500	50.2	<0.1	Pass
5000	50.6	<0.1	Pass
5500	50.3	<0.1	Pass
6000	50.1	0.6	Pass
6500	46.9	1	Pass
7000	50.7	0.2	Pass
7500	51.1	0.1	Pass
8000	50.9	0.1	Pass
8500	59.9	0.1	Pass
9000	60.4	0.1	Pass
9500	60.9	0.1	Pass
10000	60.9	0.1	Pass

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Dichloroacetic Acid			
Accumulated Volume(L)	Influent Concentration µg/L	Effluent Concentration µg/L	Pass/Failed
10 UV	27.5	<0.1	Pass
500	26.1	<0.1	Pass
1000	26.4	<0.1	Pass
1500	26.1	<0.1	Pass
2000	26.5	<0.1	Pass
2500	31.7	<0.1	Pass
3000	26.0	<0.1	Pass
3500	49.8	<0.1	Pass
4000	50.2	<0.1	Pass
4500	50.2	<0.1	Pass
5000	50.6	<0.1	Pass
5500	50.5	<0.1	Pass
6000	50.1	0.7	Pass
6500	50.7	0.7	Pass
7000	50.8	0.2	Pass
7500	51.4	0.1	Pass
8000	50.9	0.1	Pass
8500	65.9	0.1	Pass
9000	80.7	0.1	Pass
9500	77.4	0.1	Pass
10000	72.6	0.1	Pass

Haloacetic acids minimum reporting limit 0.1 µg/L

Filter System Tested



Disclaimer: The test results are only related to the filter cartridges tested, in the condition received at the laboratory.

Jaime A. Young

Jaime A. Young
Lab Director