



QFT LABORATORY, LLC.

1041 Glassboro Road Suite E-4, Williamstown NJ 08094

PHONE 856-533-0445 www.enviroteklab.com

EPA ID # NJ01298 IAPMO ID# 000102 NJDEP ID # 08021 ANAB Cert ID AT-2866



Send To:

Project Manager

KLT Filtration

Stuary Road, Kings Lynn

Norfolk, GB 43235

44 (0) 1553-622007

Result: Passed

Date: 08/18/2020

Customer Name: KLT Filtration

Tested To: NSF/ANSI Standard 53 Perchlorate Reduction PT 100%

Description: Inline Filter #CF521W

Test Type: Research and Development

Project Manager: Jaime Young

Thank you for having your product tested by QFT 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: 08/18/2020



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NSF/ANSI Standard 53 Perchlorate Reduction PT 100%: Passed

Manufacturer's Name: KLT Filtration

Sample Type: Research and Development

Product: Plumbed in without reservoir

Flow Rate: 2.5 Liters/min

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 – VOC Reduction Testing

Trade Designation/Model Number: Red Filter #CF521W

Unit Volume: 0.8 L

Performance Standard: NSF/ANSI Std 53 – 2019

Pass/Fail Criteria (ClO₄ Maximum Product Water Concentration): 4 µg/L

Decision Rule: Simple Acceptance based on the NSF/ANSI standard limit



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Filter #CF521W Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 CIO4 (90 to 110 µg/L)	Effluent 1 CIO4 Concentration (µg/L)	% Reduction
5%	500 Liters	98.5	<1	99.90%
10%	1000 Liters	98.5	<1	99.90%
15%	1500 Liters	98.5	<1	99.90%
20%	2000 Liters	98.5	<1	99.90%
25%	2500 Liters	98.5	<1	99.90%
30%	3000 Liters	98.5	<1	99.90%
35%	3500 Liters	98.5	<1	99.90%
40%	4000 Liters	98.5	<1	99.90%
45%	4500 Liters	98.5	<1	99.90%
50%	5000 Liters	91.7	<1	99.89%
55%	5500 Liters	91.7	<1	99.13%
60%	6000 Liters	91.7	1.4	98.47%
65 %	6500 Liters	91.7	2.7	97.06%
70 %	7000 Liters	91.7	2.0	97.82%
75 %	7500 Liters	91.7	1.6	98.26%
80 %	8000 Liters	91.7	1.8	98.04%
85 %	8500 Liters	91.7	1.6	98.26%
90 %	9000 Liters	91.7	1.2	98.69%
95 %	9500 Liters	91.7	2.6	97.16%
100 %	10,000 Liters	91.7	3.1	96.62%

CIO4 Reporting Limit: 1 g/L

Water Characteristics

Sample Point	pH (7.0 to 8.0)	Temperature (17 to 23°C)	Alkalinity (190 to 210 mg/L)	Chloride (90-110 mg/L)	Sulfate (190-210)	Turbidity (<1 NTU)
10 UV	7.3	20	201	92	191	0.4
5%	7.2	21	201	94	192	0.2
10%	7.3	20	204	93	194	0.2
15%	7.2	20	206	96	191	0.3
20%	7.2	20	203	94	190	0.2
25%	7.4	21	201	98	200	0.3
30%	7.2	21	202	95	201	0.2
35%	7.3	21	203	97	203	0.2
40%	7.2	22	203	99	204	0.3
45%	7.2	22	207	101	205	0.4
50%	7.4	22	208	103	207	0.3
55%	7.3	22	203	104	208	0.4
60%	7.4	22	198	101	206	0.3
65 %	7.4	22	199	100	202	0.4
70 %	7.3	22	197	99	204	0.4
75 %	7.3	22	196	97	201	0.5
80 %	7.4	22	194	98	199	0.4
85 %	7.5	22	195	99	198	0.5
90 %	7.4	22	199	106	197	0.6
95 %	7.5	22	193	104	201	0.6
100 %	7.5	22	192	103	202	0.5
Average	7.3	21.4	200	99	200	0.4

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