



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 NJDEP ID # 08021 ANAB Cert ID AT-2866



Send To:

Sean Ellis

KLT Filtration Ltd.

Stuary Road, Kings Lynn

Norfolk GB 43235

44 (0) 1553-622007

Result: Failed

Date: 12/03/2020

Customer Name: KLT Filtration Ltd.

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

Description: Filter CF521W Inline

Test Type: Qualification

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
Lab Director

Date: 12/03/2020



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NSF/ANSI Standard 53 Fluoride Reduction PT 100%: Failed

Manufacturer's Name: KLT Filtration, Ltd.

Sample Type: Qualification

Product Type: Plumbed-in without reservoir

Flow Rate: 2.5 LPM

Filter Capacity: 10,000 Liters

Cycle: 50/50

Conditioning Procedure: Flush for 5 minutes at 2.5 LPM

Physical Description of Sample: Filter CF521W Inline

Performance Indicator Device: No, test to 100% Capacity

Trade Designation/Model Number: Filter CF521W Inline

Unit Volume: 0.5 L

Test Description: NSF/ANSI 53 Standard -Fluoride Reduction Testing

Performance Standard: NSF/ANSI 53 – 2019

Pass/Fail Criteria (Fluoride Maximum Product Water Concentration): 1.5 mg/L

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



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Filter #1 Fluoride Test @ 8.0 mg/L Data Summary Table

Sample Point	Accumulated Volume (Liters)	Influent Concentration in mg/L	Effluent Concentration in mg/L	Pass/Fail Criteria ≤ 1.5 mg/L
10 UV	10 UV	7.84	0.71	Passed
0.5%	500	8.13	0.90	Passed
1%	1000	7.98	1.19	Passed
1.5%	1500	7.95	2.10	Failed
2%	2000	7.98	3.60	Failed
2.5%	2500	7.96	6.20	Failed

Fluoride Reporting Limit: 0.1 mg/L

Water Characteristics Filter 1

Accumulated Volume in Liters	pH (7.0-8.0)	Temperature (17-23)	Turbidity <1	TDS (200-500)	TOC >1
10 UV	7.2	20.5	0.40	237	1.1
500	7.1	20.5	0.40	239	1.2
1000	7.2	19.5	0.40	235	1.2
1500	7.3	20.0	0.40	238	1.2
2000	7.4	20.5	0.40	240	1.1
2500	7.4	20.0	0.30	242	1.2
Average	7.3	20.2	0.38	239	1.2

Filter #2 Fluoride Test @ 1.5 mg/L Data Summary Table

Sample Point	Accumulated Volume in Liters	Influent Concentration in mg/L	Effluent Concentration in mg/L	Pass/Fail Criteria ≤ 0.3 mg/L
10 UV	10 UV	1.51	0.13	Passed
0.5%	500	1.50	0.27	Passed
1%	1000	1.48	0.43	Failed
1.5%	1500	1.52	0.65	Failed
2%	2000	1.54	0.80	Failed
2.5%	2500	1.51	1.50	Failed

Fluoride Reporting Limit: 0.1 mg/L

Water Characteristics Filter 2

Accumulated Volume in Liters	pH (7.0-8.0)	Temperature (17-23)	Turbidity <1	TDS (200-500)	TOC >1
10 UV	7.1	20.0	0.41	237	1.1
500	7.2	20.0	0.43	235	1.1
1000	7.2	19.5	0.41	239	1.2
1500	7.3	20.0	0.45	240	1.1
2000	7.4	20.0	0.42	242	1.2
2500	7.3	20.0	0.43	240	1.1
Average	7.3	19.9	0.43	239	1.1

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