

*Seychelle*®

EVIDENCE DOSSIER  
Heavy Metals Reduction Testing



# QFT LABORATORY, LLC.



1041 Glassboro Road Suite E-4, Williamstown NJ 08094

PHONE 856-533-0445 [www.enviroteklab.com](http://www.enviroteklab.com)

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

Send To:

Carl Palmer

Seychelle Water Filtration Products

California

949-217-0775

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Result: Passed

Date: 05/13/2020

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Thank you for having your product tested by QFT Laboratories, LLC.

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

Report Authorization

*Jaime A. Young*

Date: 05/13/2020

Jaime A. Young  
Lab Director



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## NSF/ANSI Metals Reduction Test: Standard 53 (pH 6.5 and pH 8.5) and Standard 42 pH 7.0

**Product:** Batch Filter

**Flow Rate:** 25 GPD

**Filter Capacity:** 125 gallons

**Conditioning Procedures:** Flush 1 gallon

**Physical Description of Sample:** Gravity Filter

**Performance Indicator Device:** No, test to 200% capacity

**Test Description:** NSF/ANSI Std. 53 and 42 – Metals Reduction Testing pH 6.5 and pH 8.5

**Trade Designation/Model Number:** Alkaline Filter

**Performance Standard:** NSF/ANSI 53 and 42 – 2019

**Pass/Fail Criteria:** Passed

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

### Metals pH 6.5 Data Summary Table- Standard 53

Contaminant	Influent	10 UV	63 gallons	125 gallons	188 gallons	225 gallons	250 gallons	% Reduction	Pass/Fail	Passing Limit
Arsenic	49.9	3.9	5.6	5.4	1.6	<0.1	4.6	88.88%	Pass	<10 ug/L
Aluminum	294	2.4	11.3	3	3.6	4.7	13.2	95.51%	Pass	<200 ug/L
Barium	2000	18.4	5.9	61.4	155	199	167	90.05%	Pass	<2000 ug/L
Beryllium	20	0.4	<0.1	<0.1	1.3	3.4	3.9	80.50%	Pass	<4 ug/L
Cadmium	27.4	2.5	<0.1	4.3	<0.1	4.5	1.9	83.58%	Pass	<5 ug/L
Chromium	289	11.4	1.4	1.7	2.1	0.4	1.8	96.06%	Pass	<100 ug/L
Copper	2982	1.3	1.4	1.5	2	2.3	4	99.87%	Pass	<1300 ug/L
Mercury	6.1	1.1	<0.1	<0.1	<0.1	1.9	1.8	68.85%	Pass	<2 ug/L
Lead	151	1.7	0.4	<0.1	3.7	0.7	9.8	93.51%	Pass	10 ug/L

### Metals pH 8.5 Data Summary Table- Standard 53

Contaminant	Influent	10 UV	63 gallons	125 gallons	188 gallons	225 gallons	250 gallons	% Reduction	Pass/Fail	Passing Limit
Arsenic	48.2	3	4	5.1	1.6	3.1	3.9	91.91%	Pass	<10 ug/L
Aluminum	194	2.5	12.9	8.7	5.5	11.5	30.4	84.33%	Pass	<200 ug/L
Barium	1998	5.9	12.6	6.7	4.2	22.9	354	82.28%	Pass	<2000 ug/L
Beryllium	20	1.8	0.3	<0.1	1.9	2.5	3.7	81.50%	Pass	<4 ug/L
Cadmium	26.2	<0.1	<0.1	0.8	1.3	3.2	4.2	83.97%	Pass	<5 ug/L
Chromium	280	13.7	2.3	11	13.9	5.3	13.3	95.04%	Pass	<100 ug/L
Copper	2982	1.3	2	4.8	4.5	16	105	96.48%	Pass	<1300 ug/L
Mercury	6.2	0.9	0.2	1.4	0.2	1.6	1.9	69.35%	Pass	<2 ug/L
Lead	186	0.1	0.5	0.4	7.5	1.4	5.7	95.97%	Pass	<10 ug/L

Reporting Limit: 0.1 µg/L

### Metals pH 7.0 Data Summary Table- Standard 42

Contaminant	Influent	10 UV	63 gallons	125 gallons	188 gallons	225 gallons	250 gallons	% Reduction	Pass/Fail	Passing Limit
Iron	2813	33.3	53.8	57.2	34.9	129	124	95.41%	Pass	<300 ug/L
Manganese	932	0.2	0.4	1.5	6	13.9	13.2	98.51%	Pass	<50 ug/L

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**Chlorine pH 7.0 Data Summary Table- Standard 42**

Contaminant	Influent	10 UV	63 gallons	125 gallons	188 gallons	225 gallons	250 gallons	% Reduction	Pass/Fail	Passing Limit
Chlorine	2.2	<0.1	<0.1	0.1	0.1	0.2	0.1	90.91%	Pass	<1.0

**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

# ACCREDITATIONS

Water Quality Association  
International Headquarters and Laboratory  
4151 Naperville Road Lisle, IL 60532



Quality Filter Testing, LLC  
41D Germay Drive, Wilmington, DE 19804

Is recognized by the Water Quality Association Laboratory as an approved Testing Laboratory. WQA agrees to accept the results prepared by the Laboratory in accordance with the policies and procedures agreed to by the laboratory in the Technical Service Provider Application and Agreement Evaluation. The Laboratory has satisfactorily demonstrated its compliance to ISO/IEC 17025, and has been verified as capable of performing the following tests:

NSF/ANSI 42

Drinking Water Treatment Units – Aesthetic Effects

Chlorine Reduction – Section 7.3

NSF/ANSI 53

Drinking Water Treatment Units – Health Effects

VOC Reduction – Section 7.2.5

Metals Reduction Testing – Section 7.4



The Water Quality Association will only accept results of testing conducted under the direct control and supervision of employees of the Laboratory. This Laboratory Listing is valid beginning **March 9, 2018** and expires **December 31, 2020**. This recognition is subject to the conditions set forth by the Water Quality Association and is not to be construed as approval, recommendation, or endorsement or guarantee by the Water Quality Association of the qualifications or services offered by the Laboratory. Any alteration or falsification of this certificate may constitute grounds for delisting of the Laboratory. Reproduction of this certificate, in whole or in part, for advertising purposes without the written permission of Water Quality Association is strictly prohibited.

*Tambra Thomas*  
Tambra Thomas, MWS  
Quality Manager



New Jersey Department of Environment Protection  
Environmental Laboratory Certification Program



Annual Certified Parameter List and Current Status

Effective as of 11/15/2019 until 6/30/2020

Laboratory Name: QUALITY FILTER TESTING LABORATORY, LLC Laboratory Number: 08021 Activity ID: NLC 190001  
900 TWELVE OAKS DR  
WILLIAMSTOWN NJ 08094

Category: DW01 --Microbiology

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Applied	No	DW01.00190	Total coliform / E. coli	Colitag (P-A)	Other Colitag	NJ

Category: DW04 --Analyze-Immed. and Continuous Monitoring

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Applied	No	DW04.00140	pH	Electrometric	EPA 150.1	NJ

Category: DW07 --Metals - ICP, ICP/MS and DCP

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Applied	No	DW07.00070	Arsenic	ICP/MS	EPA 200.8	NJ
Applied	No	DW07.00380	Lead	ICP/MS	EPA 200.8	NJ
Applied	No	DW07.00460	Manganese	ICP/MS	EPA 200.8	NJ
Applied	No	DW07.00740	Uranium	ICP/MS	EPA 200.8	NJ

Category: DW12 --Drinking Water Sample Collection

Status	Eligible to Report NJ Data	Code	Parameter	Technique	Approved Methods	Primary State
Applied	No	DW12.00001	PWTA Sampling Parameters	All Categories Sample Handling Procedures	Other N.J.A.C. 7:18-6 & 9	NJ

  
Michele M. Potter, Manager





## IAPMO RESEARCH AND TESTING, INC.

A non-profit corporation

5001 East Philadelphia Street, Ontario, California 91761-2816

909.472.4100 | 909.472.4250

This is to certify that

### Quality Filter Testing Laboratory LLC (Lab #0000102)

1041 SUITE E-4, GLASSBORO ROAD

WILLIAMSTOWN, NJ 08094

is recognized by IAPMO Research and Testing, Inc. as an independent Testing Laboratory.

IAPMO Research and Testing, Inc. agrees to accept reports prepared by the Laboratory in accordance with the policies and procedures agreed to by the laboratory in the Laboratory Recognition Agreement. The Laboratory has satisfactorily demonstrated its compliance to ISO/IEC 17025:2005 as referenced in clause 6.2 of ISO/IEC 17065:2012, and has been verified as capable of performing tests in the following categories:

### Water Filters/ Conditioners

IAPMO Research and Testing, Inc. will accept from the Laboratory only reports of testing conducted under the direct control and supervision of employees of the Laboratory.

This Laboratory Listing is valid beginning **10/31/2019** and expires after **10/31/2020**.

This listing is subject to the conditions set forth by IAPMO Research and Testing, Inc.

Any alteration or falsification of this certification may constitute grounds for delisting of the Laboratory.

Reproduction of this certification, in whole or in part, for advertising purposes without the expressed written permission of IAPMO Research and Testing, Inc. is strictly prohibited.

*Russ Chaney*

**Russ Chaney**  
Chief Executive Officer



*Jin Luo*

**Jin Luo**  
Executive Vice President of  
Laboratory Recognition





IAPMO RESEARCH AND TESTING, INC.

Laboratory Listing

APPENDIX "A"

**Quality Filter Testing Laboratory LLC (Lab #0000102)**

1041 SUITE E-4, GLASSBORO ROAD  
WILLIAMSTOWN, NJ 08094

Valid Beginning: 10/31/2019

Void After: 10/31/2020

Certificate Appendix Page # 1

**WATER FILTERS/CONDITIONERS:**

NSF/ANSI 42 (Section 6, 7.3), NSF/ANSI 53 (Sections 6, 7.2, 7.3, 7.4), NSF/ANSI 58  
(Sections 6.4.1, 6.9, 7.1, 7.2, 7.3.2.3, 7.3.2.4), NSF/ANSI 401 (Section 6), NSF/ANSI P473  
(Section 6)



# CERTIFICATE OF ACCREDITATION

**The ANSI National Accreditation Board**

Hereby attests that

**Quality Filter Testing Laboratory, LLC  
1041 Glassboro Road, Unit E-4  
Williamstown, NJ 08094**

Fulfills the requirements of

**ISO/IEC 17025:2017**

In the field of

**TESTING**

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 07 April 2022

Certificate Number: AT-2866



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory  
quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### Quality Filter Testing Laboratory, LLC

1041 Glassboro Road, Unit E-4

Williamstown, NJ 08094

Jaime A. Young

856-583-0445

### TESTING

Valid to: **April 7, 2022**

Certificate Number: **AT-2866**

#### Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Metals (As)	NSF/ANSI Std 53	Filters	ICP/MS - EPA 200.8
Metals (Cd)	NSF/ANSI Std 53	Filters	ICP/MS - EPA 200.8
Metals (Cu)	NSF/ANSI Std 53	Filters	ICP/MS - EPA 200.8
Metals (Cr)	NSF/ANSI Std 53	Filters	ICP/MS - EPA 200.8
Metals (Hg)	NSF/ANSI Std 53	Filters	ICP/MS - EPA 200.8
Metals (Pb)	NSF/ANSI Std 53	Filters	ICP/MS - EPA 200.8
Metals (Se)	NSF/ANSI Std 53	Filters	ICP/MS - EPA 200.8
Metals (Fe)	NSF/ANSI Std 42	Filters	ICP/MS - EPA 200.8
Metals (Mn)	NSF/ANSI Std 42	Filters	ICP/MS - EPA 200.8
Metals (Zn)	NSF/ANSI Std 42	Filters	ICP/MS - EPA 200.8
VOC (Chloroform)	NSF/ANSI Std 53	Filters	GC/MS – EPA 524.2
pH	NSF/ANSI Stds 53 and 42	Water	EPA 150.1
TDS by Conductivity	NSF/ANSI Stds 53 and 42	Water	SM 2510B
Turbidity	NSF/ANSI Stds 53 and 42	Water	SM 2130B

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2866.



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R. Douglas Leonard Jr., VP, PILR SBU

