



Biological Consulting Services

Of North Florida, Inc.

2026-05-27

Paul Bailey
Pure Way Filtration
61 Schinger Ave Unit 104
Ridgeland SC 29936
404-276-9311

Client ID: System #1, System #2
RE: 3 Stage 4.5" x 20" Point of Entry Water Filtration System
BCS ID: 2603149, 2603150

Report Revision#1: Report conclusion was updated to clarify intent of study

Project Name: Pure Way 03172026 Multi-Analyte Filtration Efficacy Testing

Dear Paul Bailey,

We have completed the filtration efficacy study on the submitted units as outlined below. The contaminant species, study conditions, and water parameters utilized were based on client's request and adaptation of the guidance documents and protocols listed below:

Water Filtration Efficacy Testing: Multi-analyte testing; plumbed in systems and faucet mounted systems (BCS SOP F-1; ISO17025:2017 Accredited).

Report Conclusion: Testing was conducted using ISO17025 accredited laboratory methodologies under conditions requested by the client. Results are intended to demonstrate initial filtration efficacy performance.

Following, you will find our report on the results of the study conducted on the referenced samples. Should you have any questions, please do not hesitate to contact me.

Sincerely,

George Lukasik, Ph.D.
Laboratory Director

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Final Report BCS ID 2603149, 2603150 Revision#1: 05/27/2026 GL

Client: Pure Way Filtration

Project: Pure Way 03172026 Multi-Analyte Filtration Efficacy Testing
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Analysis: *Chlorine Taste and Odor (CTO) Filtration Efficacy*

Test Water: Challenge Test Water

Analysis Method: Colorimetric analysis (DPD) (4500-Cl G)

Test Point: Performance at 100 gallons

Challenge Date: 2026-04-02 Challenge Analysts: Nathaniel Vogler B.S.

Initial Pres. (PSI): 60.5 Temp(C): 20.8

pH: 7.55 Turbidity (NTU): 0.13 TOC (ppm): 1.13 TDS(ppm): 214.1 Hardness(ppm): 159

Alkalinity(ppm): N/A Total Chlorine(ppm): 2.2 Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 2.2E+00 ppm (mg/L) Ambient Temp(C): 20.8

Analysis Date: 2026-04-02 Analysts: Nathaniel Vogler B.S.

Test Notes: Pure Way 3-Stage units' performance achieved 99.1% reduction of free chlorine at the above test point.

BCS Sample ID 1: 2603149	Client ID 1: System #1	Flow Rate: 4.0 gpm		
Eff Conc 1: 2.0E-02 ppm (mg/L)	% Reduct 1:	99.1	Log10 Reduct 1:	2.0
BCS Sample ID 2: 2603150	Client ID 2: System #2	Flow Rate: 4.0 gpm		
Eff Conc 2: 2.0E-02 ppm (mg/L)	% Reduct 2:	99.1	Log10 Reduct 2:	2.0

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Analysis: *Chloramine Filtration Efficacy*

Test Water: Challenge Test Water

Analysis Method: Colorimetric analysis (DPD) (4500-Cl G)

Test Point: Performance at 100 gallons

Challenge Date: 2026-04-02 Challenge Analysts: Nathaniel Vogler B.S.

Initial Pres. (PSI): 60.5 Temp(C): 20.9

pH: 8.87 Turbidity (NTU): 0.14 TOC (ppm): 1.16 TDS(ppm): 301.4 Hardness(ppm): 160

Alkalinity(ppm): N/A Total Chlorine(ppm): 3.1 Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 3.1E+00 ppm (mg/L) Ambient Temp(C): 21.0

Analysis Date: 2026-04-02 Analysts: Nathaniel Vogler B.S.

Test Notes: Pure Way 3-Stage units' performance achieved 99.6% reduction of chloramine at the above test point.

BCS Sample ID 1: 2603149	Client ID 1: System #1	Flow Rate: 4.0 gpm		
Eff Conc 1: 1.0E-02 ppm (mg/L)	% Reduct 1:	99.7	Log10 Reduct 1:	2.5
BCS Sample ID 2: 2603150	Client ID 2: System #2	Flow Rate: 4.0 gpm		
Eff Conc 2: 2.0E-02 ppm (mg/L)	% Reduct 2:	99.4	Log10 Reduct 2:	2.2

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Analysis: *Volatile Organic Carbon (VOC) Filtration Efficacy*

Test Water: Challenge Test Water

Analysis Method: VOC Analysis by GCMS (Purge & Trap)

Test Point: Performance at 100 gallons

Challenge Date: 2026-04-14 Challenge Analysts: Nathaniel Vogler B.S.

Initial Pres. (PSI): 60.5 Temp(C): 21.6

pH: 7.86 Turbidity (NTU): 0.19 TOC (ppm): 1.18 TDS(ppm): 218.1 Hardness(ppm): 155

Alkalinity(ppm): N/A Total Chlorine(ppm): N/A Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 2.8E+02 ppb (ug/L) Ambient Temp(C): 21.6

Analysis Date: 2026-04-14 Analysts: Nathaniel Vogler B.S.

Test Notes: Pure Way 3-Stage units' performance achieved 99.94% reduction of VOC (as chloroform) at the above test point.

BCS Sample ID 1: 2603149	Client ID 1: System #1	Flow Rate: 4.0 gpm		
Eff Conc 1: 2.2E-01 ppb (ug/L)	% Reduct 1:	99.92	Log10 Reduct 1:	3.1
BCS Sample ID 2: 2603150	Client ID 2: System #2	Flow Rate: 4.0 gpm		
Eff Conc 2: 1.2E-01 ppb (ug/L)	% Reduct 2:	99.96	Log10 Reduct 2:	3.4

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Analysis: *Total Trihalomethane (TTHM)*

Test Water: Challenge Test Water

Analysis Method: TTHM Analysis by GCMS (Purge & Trap)

Test Point: Performance at 100 gallons

Challenge Date: 2026-04-14 Challenge Analysts: Nathaniel Vogler B.S.

Initial Pres. (PSI): 60.5 Temp(C): 21.4

pH: 7.53 Turbidity (NTU): 0.23 TOC (ppm): 1.20 TDS(ppm): 220.1 Hardness(ppm): 157

Alkalinity(ppm): N/A Total Chlorine(ppm): N/A Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 4.9E+02 ppb (ug/L) Ambient Temp(C): 21.8

Analysis Date: 2026-04-14 Analysts: Nathaniel Vogler B.S.

Test Notes: Pure Way 3-Stage units' performance achieved 99.93% reduction of TTHM (as chloroform) at the above test point.

BCS Sample ID 1: 2603149	Client ID 1: System #1	Flow Rate: 4.0 gpm		
Eff Conc 1: 3.3E-01 ppb (ug/L)	% Reduct 1:	99.93	Log10 Reduct 1:	3.2
BCS Sample ID 2: 2603150	Client ID 2: System #2	Flow Rate: 4.0 gpm		
Eff Conc 2: 3.5E-01 ppb (ug/L)	% Reduct 2:	99.93	Log10 Reduct 2:	3.1

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Analysis: *PFAS Filtration Efficacy*

Test Water: Challenge Test Water

Analysis Method: EPA 533

Test Point: Performance at 100 gallons

Challenge Date: 2026-04-15 Challenge Analysts: Nathaniel Vogler B.S.

Initial Pres. (PSI): 60.5 Temp(C): 21.8

pH: 7.66 Turbidity (NTU): 0.31 TOC (ppm): N/A TDS(ppm): 210.9 Hardness(ppm): 153

Alkalinity(ppm): N/A Total Chlorine(ppm): N/A Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 5.2E-01 ppb (ug/L) Ambient Temp(C): 21.4

Analysis Date: 2026-05-04 Analysts: Pace Analytical

Test Notes: Pure Way 3-Stage units' performance achieved >99.3% reduction of PFAS the above test point.
Influent spike contained PFOA, PFOS, PFHxS, PFHpA, PFBS, and PFDA.

BCS Sample ID 1: 2603149	Client ID 1: System #1	Flow Rate: 4.0 gpm		
Eff Conc 1: <3.9E-03 ppb (ug/L)	% Reduct 1:	>99.3	Log10 Reduct 1:	>2.1
BCS Sample ID 2: 2603150	Client ID 2: System #2	Flow Rate: 4.0 gpm		
Eff Conc 2: <3.8E-03 ppb (ug/L)	% Reduct 2:	>99.3	Log10 Reduct 2:	>2.1

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Analysis: *Total Haloacetic Acids (HAA9/HAA6)*

Test Water: Challenge Test Water

Analysis Method: EPA 552.3

Test Point: Performance at 50 gallons

Challenge Date: 2026-04-15 Challenge Analysts: Nathaniel Vogler B.S.

Initial Pres. (PSI): 60.5 Temp(C): 21.4

pH: 7.58 Turbidity (NTU): 0.17 TOC (ppm): N/A TDS(ppm): 218.1 Hardness(ppm): 155

Alkalinity(ppm): N/A Total Chlorine(ppm): N/A Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 2.1E+02 ppb (ug/L) Ambient Temp(C): 20.8

Analysis Date: 2026-04-30 Analysts: Pace Analytical

Test Notes: Pure Way 3-Stage units' performance achieved >98.7% reduction of Haloacetic Acids at the above test point.

Influent spike contained Bromoacetic acid, Bromochloroacetic acid, Bromodichloroacetic acid, Chloroacetic acid, Dibromochloroacetic acid, Dibromoacetic acid, Dichloroacetic acid, Tribromoacetic acid, and Trichloroacetic acid.

BCS Sample ID 1: 2603149	Client ID 1: System #1	Flow Rate: 4.0 gpm		
Eff Conc 1: <2.8E+00 ppb (ug/L)	% Reduct 1:	>98.7	Log10 Reduct 1:	>1.9
BCS Sample ID 2: 2603150	Client ID 2: System #2	Flow Rate: 4.0 gpm		
Eff Conc 2: <2.8E+00 ppb (ug/L)	% Reduct 2:	>98.7	Log10 Reduct 2:	>1.9

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Analysis: *Pharmaceuticals and Personal Care Products (PPCPs)* Test Water: Challenge Test Water
 Analysis Method: PPCP - LCMS
 Test Point: Performance at 50 gallons
 Challenge Date: 2026-04-23 Challenge Analysts: Nathaniel Vogler B.S.
 Initial Pres. (PSI): 60.5 Temp(C): 20.9
 pH: 7.61 Turbidity (NTU): 0.31 TOC (ppm): N/A TDS(ppm): 211.1 Hardness(ppm): 157
 Alkalinity(ppm): N/A Total Chlorine(ppm): N/A Polyphosphate (as ppm phosphorus): N/A
 Influent Conc: 7.2E+01 ppb (ug/L) Ambient Temp(C): 21.1
 Analysis Date: 2026-05-04 Analysts: Eurofins Southbend
 Test Notes: Pure Way 3-Stage units' performance achieved >99.3% reduction of spiked Pharmaceuticals and Personal Care Products (PPCPs) at the above test point.
 See Annex A for individual contaminant concentrations and percent reductions.

BCS Sample ID 1: 2603149	Client ID 1: System #1	Flow Rate: 4.0 gpm
Eff Conc 1: <5.2E-01 ppb (ug/L)	% Reduct 1:	>99.3 Log10 Reduct 1: >2.1
BCS Sample ID 2: 2603150	Client ID 2: System #2	Flow Rate: 4.0 gpm
Eff Conc 2: <5.2E-01 ppb (ug/L)	% Reduct 2:	>99.3 Log10 Reduct 2: >2.1



Analysis: *Lead Filtration Efficacy (Pb)*

Test Water: Challenge Test Water Analysis

Method: ICP-MS

Test Point: Performance at 100 gallons

Challenge Date: 2026-04-30 Challenge Analysts: Nathaniel Vogler B.S.

Initial Pres. (PSI): 60.5 Temp(C): 21.6

pH: 7.33 Turbidity (NTU): 0.24 TOC (ppm): N/A TDS(ppm): 213.4 Hardness(ppm): 157

Alkalinity(ppm): N/A Total Chlorine(ppm): N/A Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 1.3E+02 ppb (ug/L) Ambient Temp(C): 21.6

Analysis Date: 2026-05-14 Analysts: Nathaniel Vogler B.S.

Test Notes: Pure Way 3-Stage units' performance achieved >99.92% reduction of dissolved Lead at the above test point.

BCS Sample ID 1: 2603149	Client ID 1: System #1	Flow Rate: 4.0 gpm		
Eff Conc 1: <1.0E-01 ppb (ug/L)	% Reduct 1:	>99.92	Log10 Reduct 1:	>3.1
BCS Sample ID 2: 2603150	Client ID 2: System #2	Flow Rate: 4.0 gpm		
Eff Conc 2: <1.0E-01 ppb (ug/L)	% Reduct 2:	>99.92	Log10 Reduct 2:	>3.1

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Project: Pure Way 03172026 Multi-Analyte Filtration Efficacy Testing

Date Received: 2026-03-17 16:17

Test Start Date: 2026-04-02

Test End Date: 2026-05-18

System Type: Point of Entry 3- Stage System

Est. Capacity: N/A

Performance Indicating Device: N/A

Batch Volume: N/A

Batch, number per day: N/A

Test Cycle (min): N/A

Cycle On/Off (%): N/A

Restricted Flow Rate: Yes

Test Duration (hr/day): N/A

Test Conditioning: Flushed for 5 minutes @ 4.0 gpm prior to challenge

Report Notes:

The water purifier units were received from the study sponsor and each was assigned the referenced BCS identifier. The units were tested as per client's request. Challenge Test Water was prepared and passed through the units at the indicated cycle. Samples of units' influent and effluent were collected at the indicated sample point as per the method. All collected samples were analyzed as per standard laboratory operating procedure. Study and analysis was conducted as per laboratory's accredited ISO17025:2017 methodology; Free Chlorine was analyzed as per SM 4500Cl-G (LOD: 0.01 mg/L), Chloramine was analyzed as per SM 4500Cl-G (LOD: 0.01 mg/L), VOC and total trihalomethane (TTHM) (Chloroform Surrogate) analysis was performed as per EPA 524.3 (LOD 0.1 PPB), Lead was analyzed as per EPA 200.8 (LOD 0.1ppb) Turbidity as per SM2130B (LOD 0.01 NTU), pH as per SM4500HB, TOC as per SM5310C (LOD: 0.1 PPM), and TDS as per SM2540 (LOD 0.01 PPM). PFAS and Total Haloacetic Acid (HAA6/HAA9) samples were shipped overnight to PACE Analytical (Ormond Beach) for analysis. Pharmaceutical samples were shipped overnight to Europhins South Bend for analysis. Analysis was conducted using calibrated and/or validated instruments to traceable standard (NIST). All QC was within method acceptance limit. No environmental conditions are specified in the standard or have been identified that could affect the test results or measurements. END OF REPORT NOTES.

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*I certify that I have examined and I am familiar with the information submitted herein. The results pertain only to the sample(s) tested, associated identifier #(s), and condition at receipt. Based on my inquiry of the individuals responsible for the analysis, I believe the data to be true, accurate, and complete. Unit descriptions and names were obtained from the submitted documents. The analysis was authorized and commissioned by the client or client's representative. The resulting data are representative of the analysis conducted on the collected samples and it's/their condition at the time of analysis. The data provided is strictly representative of the study conducted under laboratory conditions using the material/samples/articles provided by the client (or client's representative) and it's (their) condition at the time of test following receipt. The data obtained may not be representative or indicative of a real-life process and/or application. The sample(s) were analyzed in accordance with the appropriate method, however due to the inherent limitations of methods, microorganisms may avoid detection. BCS Laboratories offers no express or implied warranties concerning the quality, safety, and/or purity of any sample, batch, source, or the process they are derived from. Quality assurance controls were performed as outlined in the method and as per Good Laboratory Practices. Analyses were performed in accordance with laboratory practices and procedures set-forth by ISO 17025-2017 and NELAP/TNI accreditation standards unless otherwise noted. BCS makes no express or implied warranty regarding the ownership, merchantability, safety or fitness for a particular purpose of any such property or product.

Signature of Laboratory Director/Authorized Rep. _____



Date: 2026-05-18

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Annex A:

Pharmaceuticals and Personal Care Products (PPCPs) Challenge Date: 04/23/2026						
Sample point	Analyte Concentrations (ppb)					
	Analyte	Influent	2603149 Effluent	2603149 Percent Reduction	2603150 Effluent	2603150 Percent Reduction
50 gallons	Estrone	0.95	<0.0050	>99%	<0.0050	>99%
	Ibuprofen	2.8	<0.020	>99%	<0.020	>99%
	Naproxen	3.7	<0.020	>99%	<0.020	>99%
	Penicillin G	2.2	<0.010	>99%	<0.010	>99%
	Prednisone	1.5	<0.0050	>99%	<0.0050	>99%
	Acetaminophen	2.3	<0.020	>99%	<0.020	>99%
	Caffeine	1.9	<0.010	>99%	<0.010	>99%
	Erythromycin	2.1	<0.020	>99%	<0.020	>99%
	Nicotine	53.0	<0.40	>99%	<0.40	>99%
	Progesterone	2.0	<0.0050	>99%	<0.0050	>99%



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*Balance ID: BL-11	Description: Sartorius Practum Precision Balance
Range of Function: 0.001-220.000	Instrument Reporting Limit: 0.001
Last Service Date: 2025-08-08	Service Due Date: 2026-08-08
Service Type: NIST Calibration	NIST Validation Instrument: External Provider
*pH Meter ID: Ph-10	Description: Orion Versa Star Pro Meter w/pH and Conductivity Modules
Range of Function: 0.001-12.000	Instrument Reporting Limit: 0.001
Last Service Date: 2026-04-02	Service Due Date: 2026-05-18
Service Type: Validation to NIST	NIST Validation Instrument: NIST Standard Solutions
*Conductivity Meter ID: CM-10	Description: Orion Versa Star Pro Meter w/pH and Conductivity Modules
Range of Function: 0.01-2400	Instrument Reporting Limit: .01
Last Service Date: 2026-04-02	Service Due Date: 2026-05-18
Service Type: Validation to NIST	NIST Validation Instrument: NIST Standard Solutions
*Alkalinity Meter ID: N/A	Description:
Range of Function:	Instrument Reporting Limit:
Last Service Date:	Service Due Date:
Service Type:	NIST Validation Instrument:
*Hardness Meter ID: HARD-01	Description: Hach Total Hardness Test Kit 10-4,000 mg/L
Range of Function: 10-4000 mg/L	Instrument Reporting Limit: 10 mg/L
Last Service Date: 2026-04-02	Service Due Date: 2026-05-18
Service Type: Validation to NIST	NIST Validation Instrument: NIST Standard Solutions
*Turbidity Meter ID: TM-06	Description: Hach Turbidimeter
Range of Function: 0 to 4000 NTU	Instrument Reporting Limit: 0.01NTU
Last Service Date: 2026-01-16	Service Due Date: 2027-01-16
Service Type: Yearly Service	NIST Validation Instrument: NIST Standard Solutions
*Spectrophotometer ID: SPEC-02	Description: Hach DR 3900 Spectrophotometer Colorimeter
Range of Function: 320-1000nm	Instrument Reporting Limit: 0.01nm
Last Service Date: 2026-04-06	Service Due Date: 2027-04-06
Service Type: Manufacturer service	NIST Validation Instrument: NIST Standard Solutions
Incubator ID: N/A	Description:
Range of Function:	Instrument Reporting Limit:
Last Service Date:	Service Due Date:
Service Type:	NIST Validation Instrument:



**Flow Meter ID 1: FM-125		Description: King Instrument Company
Range of Function:	N/A	Instrument Reporting Limit: N/A
Last Service Date:	2026-04-02	Service Due Date: 2026-05-18
Service Type:	N/A	NIST Validation Instrument: N/A
**Flow Meter ID 2: FM-93		Description: King FlowMeter
Range of Function:	0.5-5.0 GPM	Instrument Reporting Limit: 0.05 GPM
Last Service Date:	2026-04-02	Service Due Date: 2026-05-18
Service Type:	Validation to NIST	NIST Validation Instrument: GC-5G-B
**Flow Meter ID 3: N/A		Description:
Range of Function:		Instrument Reporting Limit:
Last Service Date:		Service Due Date:
Service Type:		NIST Validation Instrument:
Microscope ID: N/A		Description:
Range of Function:		Instrument Reporting Limit:
Last Service Date:		Service Due Date:
Service Type:		NIST Validation Instrument:
Refrigerator ID: FR-01		Description: Avanti Refrigerator
Range of Function:	1-8 C	Instrument Reporting Limit: N/A
Last Service Date:	2025-09-19	Service Due Date: 2025-09-30
Service Type:	Annual Validation	NIST Validation Instrument: TP-30
Centrifuge ID: N/A		Description:
Range of Function:		Instrument Reporting Limit:
Last Service Date:		Service Due Date:
Service Type:		NIST Validation Instrument:
Pressure Source Pump ID: Pump-83		Description: Goulds Water Technology eSV
Range of Function:	360 PSI, 250°F Max, 3500 rpm	Instrument Reporting Limit: N/A
Last Service Date:	N/A	Service Due Date: N/A
Service Type:	N/A	NIST Validation Instrument: N/A
Pressure Meter ID: PM-63 NIS		Description: Sper Scientific Pressure Transducer 145 PSI
Range of Function:	2-10 Bar	Instrument Reporting Limit: 0.01 PSI
Last Service Date:	2025-05-12	Service Due Date: 2026-05-12
Service Type:	Manufacturer Cal.	NIST Validation Instrument: Reference Std./Instrument



Cert. Pressure Meter ID: PM-63 NIS Description: Sper Scientific Pressure Transducer 145 PSI
Range of Function: 2-10 Bar Instrument Reporting Limit: 0.01 PSI
Last Service Date: 2025-05-12 Service Due Date: 2026-05-12
Service Type: Manufacturer Cal. NIST Validation Instrument: Reference Std./Instrument

TOC Analyzer ID: TOC-01 Description: GE M5310C Lab TOC Analyzer
Range of Function: 40ppb-50ppm Instrument Reporting Limit: 0.01ppb
Last Service Date: 2026-04-22 Service Due Date: 2027-04-22
Service Type: Annual PM NIST Validation Instrument: NIST Standard Solutions

Spectrograph ID: ICP-01 Description: ICP-MS 7700x Series
Range of Function: 0.1ppb-100ppm Instrument Reporting Limit: 0.1ppb
Last Service Date: 2026-02-12 Service Due Date: 2027-02-12
Service Type: Annual PM NIST Validation Instrument: NIST Standard Solutions

Thermometer ID: IR-13 NIST Description: VWR Traceable Infrared Thermometer
Range of Function: 0-150 C Instrument Reporting Limit: 0.1C
Last Service Date: 2025-09-03 Service Due Date: 2026-09-03
Service Type: Annual Calibration NIST Validation Instrument: Manufacture calibration

Particle Counter ID: N/A Description:
Range of Function: Instrument Reporting Limit:
Last Service Date: Service Due Date:
Service Type: NIST Validation Instrument:

Timer ID: T-58 NIST Description: VWR NIST Traceable Timer
NIST Expiration Date: 2026-12-19

*Validated at each day of use using NIST traceable standards. Other major equipment validated quarterly.

**Validated at each use using traceable volume and time measurements.

All above equipment with completed fields were used from Test Start Date to Test End Date unless otherwise noted. Service Date indicates PM or calibration by accredited service provider. Service Dates reported for latest period. If Last Service Date occurs during study duration, please contact us for the previous period's validation information.

END OF REPORT

Client: Pure Way Filtration

Project: Pure Way 03172026 Multi-Analyte Filtration Efficacy Testing

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