



Test Report

IAPMO R&T LAB (NJ)



1041 Glassboro Road Suite D-1, Williamstown NJ 08094
IAPMO ID# 000102 ANAB Cert # AT 3220

Send To:

James Enterprise Inc
1981 Aspen Circle
Pueblo, CO 81006

Result: Chromium Passed. Cadmium Passed to 350 gallons. Selenium Passed at the Start Date: 04/18/2024

Customer Name: James Enterprise Inc

Tested To: NSF/ANSI Standard 53 Chromium III-Cadmium-Selenium Reduction pH 6.5

Trade Designation/Model Number: BOROUX Foundation

Test Type: R & D

Project Manager: Corey Elise Young

Thank you for having your product tested by IAPMO R & T NJ Lab.
Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization

Corey Elise Young
Corey Elise Young
QC Manager

Date: 04/18/2024



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NSF/ANSI Standard 53 Chromium III-Cadmium-Selenium Reduction at pH 6.5

Manufacturer's Name: James Enterprise Inc

Sample Type: R & D

Product: Gravity Filter

Flow Rate: 10 gpd

Filter Capacity: 125 gallons

Cycle: 15-60 min rest between loads

Conditioning Procedure: Discard first batch.

Physical Description of Sample: Gravity Filter

Test Description: NSF/ANSI Std. 53 – Chromium III-Cadmium-Selenium Reduction Testing pH 6.5

Trade Designation/Model Number: BOROUX Foundation

Unit Volume: 100 mL

Performance Standard: NSF/ANSI 53 – 2022

Pass/Fail Criteria (Chromium III): 100 µg/L

Pass/Fail Criteria (Cadmium): 5 µg/L

Pass/Fail Criteria (Selenium): 50 µg/L



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Water Characteristics

Sample Point	pH	*Temperature (17.5-22.5)	Alkalinity (10-30)	Hardness (10-30)	Turbidity <1 NTU	TDS <100 mg/L	Polyphosphate as P <0.5 ppm	*Flow Rate (gpd)
	(6.25-6.75)							
10 UV	6.52	20	22	19	0.4	57	0.2	10
50%	6.55	19.5	25	22	0.4	59	0.3	10
100%	6.50	19.6	22	23	0.3	51	0.2	10
150%	6.53	19.8	25	24	0.3	52	0.2	10
180%	6.57	19.9	23	26	0.4	56	0.3	10
200%	6.56	19.7	21	24	0.4	57	0.3	10
240%	6.55	19.6	23	26	0.3	68	0.2	10
280%	6.49	19.6	22	24	0.3	61	0.3	10
320%	6.41	19.5	23	25	0.2	51	0.3	10
360%	6.47	18.5	21	21	0.2	54	0.3	10
400%	6.45	18.3	23	24	0.2	57	0.3	10
440%	6.40	18.5	25	21	0.3	49	0.2	10
480%	6.45	18.4	24	29	0.3	41	0.2	10
520%	6.41	18.5	24	25	0.2	42	0.3	10
560%	6.48	18.2	22	24	0.3	40	0.3	10
600%	6.49	18.4	23	25	0.2	41	0.3	10
640%	6.51	18.4	25	24	0.3	42	0.3	10
680%	6.57	18.3	24	27	0.2	41	0.3	10
720%	6.55	18.2	23	25	0.3	40	0.3	10
760%	6.51	18.2	21	28	0.3	39	0.3	10
800%	6.54	18.3	26	22	0.3	38	0.3	10
Average	6.50	18.9	23	24	0.3	49	0.3	10

***Note: Not Included in the ANAB ISO 17025 Scope of Certification.**



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Data Analysis Table Chromium III Passed to 1000 Gallone

Sample Point	Accumulated Volume Effluent	Influent Chromium III (µg/L)	Effluent Chromium III Concentration (µg/L)	% Reduction	Passed/Failed
10 UV	10 UV	365	15	95.89%	Passed
50%	62.5 gallons	297	3	98.99%	Passed
100%	125 gallons	305	4	98.69%	Passed
150%	187.5 gallons	321	5	98.44%	Passed
180%	225 gallons	360	62	82.78%	Passed
200%	250 gallons	298	25	91.61%	Passed
240%	300 gallons	306	55	82.03%	Passed
280%	350 gallons	290	18	93.79%	Passed
320%	400 gallons	295	70	76.27%	Passed
360%	450 gallons	302	42	86.09%	Passed
400%	500 gallons	311	16	94.86%	Passed
440%	550 gallons	297	41	86.20%	Passed
480%	600 gallons	231	43	81.39%	Passed
520%	650 gallons	328	28	91.46%	Passed
560%	700 gallons	297	17	94.28%	Passed
600%	750 gallons	328	20	93.90%	Passed
640%	800 gallons	319	19	94.04%	Passed
680%	850 gallons	318	14	95.60%	Passed
720%	900 gallons	315	16	94.92%	Passed
760%	950 gallons	291	17	94.16%	Passed
800%	1000 gallons	295	34	88.47%	Passed

Chromium III Detection Limit: 1 µg/L

Data Analysis Table Cadmium Passed to 350 Gallons

Sample Point	Accumulated Volume Effluent	Influent Cadmium (µg/L)	Effluent Cadmium Concentration (µg/L)	% Reduction	Passed/Failed
10 UV	10 UV	33	1	96.97%	Passed
50%	62.5 gallons	30	<1	96.67%	Passed
100%	125 gallons	33	1	96.97%	Passed
150%	187.5 gallons	31	<1	96.77%	Passed
180%	225 gallons	31	<1	96.77%	Passed
200%	250 gallons	33	4	87.88%	Passed
240%	300 gallons	30	3	90.00%	Passed
280%	350 gallons	25	<1	96.00%	Passed

Cadmium Detection Limit: 1 µg/L

Data Analysis Table Selenium Passed at the Start

Sample Point	Accumulated Volume Effluent	Influent Selenium (µg/L)	Effluent Selenium Concentration (µg/L)	% Reduction	Passed/Failed
10 UV	10 UV	121	26	78.51%	Passed

Selenium Detection Limit: 1 µg/L



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Filter System Tested



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

Corey Elise Young
Corey Elise Young
QC Manager