



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 at 1000 Gallons. Cadmium Passed at 1000 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 8.5

Trade Designation/Model Number: BOROUX Foundation

Test Type: Qualification

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 8.5:

Manufacturer's Name: James Enterprise Inc

Sample Type: Qualification

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 8.5

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 C)	Alkalinity (100-250)	Hardness (100-200)	Turbidity <1 NTU	TDS	Polyphosphate as P <0.5 ppm	*Flow Rate (gpd)
	(8.25-8.75)					200-500 mg/L		
10 UV	8.38	20.0	186	121	0.4	257	0.2	10
50%	8.40	19.4	198	135	0.4	248	0.2	10
100%	8.51	19.6	180	142	0.4	263	0.2	10
150%	8.47	19.8	199	157	0.3	254	0.2	10
180%	8.50	19.5	189	143	0.3	243	0.3	10
200%	8.46	19.4	190	141	0.3	240	0.3	10
240%	8.51	19.6	198	153	0.2	275	0.2	10
280%	8.53	19.5	196	147	0.3	261	0.2	10
320%	8.50	19.6	185	142	0.2	254	0.3	10
360%	8.56	18.5	199	141	0.2	257	0.3	10
400%	8.57	18.2	189	142	0.3	251	0.2	10
440%	8.51	18.5	181	145	0.2	229	0.2	10
480%	8.56	18.4	196	148	0.3	235	0.2	10
520%	8.51	18.4	185	150	0.2	247	0.2	10
560%	8.50	18.2	190	142	0.2	238	0.3	10
600%	8.45	18.4	188	145	0.3	229	0.2	10
640%	8.52	18.4	197	146	0.3	225	0.2	10
680%	8.50	18.2	187	157	0.2	229	0.2	10
720%	8.51	18.3	190	142	0.2	221	0.2	10
760%	8.49	18.1	175	140	0.3	220	0.2	10
800%	8.50	18.3	181	142	0.3	224	0.2	10
Average	8.50	19.4	189	144	0.3	255	0.2	10

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



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Data Analysis Table Chromium III Passed at 1000 Gallons

Sample Point	Accumulated Volume Effluent	Influent Chromium III (µg/L)	Effluent Chromium III Concentration (µg/L)	% Reduction	Passed/Failed
10 UV	10 UV	356	8	97.75%	Passed
50%	62.5 gallons	300	8	97.33%	Passed
100%	125 gallons	318	6	98.11%	Passed
150%	187.5 gallons	337	4	98.81%	Passed
180%	225 gallons	308	38	87.66%	Passed
200%	250 gallons	303	24	92.08%	Passed
240%	300 gallons	297	34	88.55%	Passed
280%	350 gallons	313	19	93.93%	Passed
320%	400 gallons	329	26	92.10%	Passed
360%	450 gallons	302	24	92.05%	Passed
400%	500 gallons	321	17	94.70%	Passed
440%	550 gallons	298	32	99.66%	Passed
480%	600 gallons	329	31	99.70%	Passed
520%	650 gallons	289	22	92.39%	Passed
560%	700 gallons	278	8	97.12%	Passed
600%	750 gallons	271	12	95.57%	Passed
640%	800 gallons	276	12	95.65%	Passed
680%	850 gallons	303	5	98.35%	Passed
720%	900 gallons	224	5	97.77%	Passed
760%	950 gallons	264	6	97.73%	Passed
800%	1000 gallons	261	15	94.25%	Passed

Chromium Detection Limit: 1 µg/L

Data Analysis Table Cadmium Passed at 1000 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	3	90.00%	Passed
100%	125 gallons	31	<1	96.77%	Passed
150%	187.5 gallons	30	<1	96.67%	Passed
180%	225 gallons	30	<1	96.67%	Passed
200%	250 gallons	31	<1	96.77%	Passed
240%	300 gallons	32	<1	96.88%	Passed
280%	350 gallons	26	<1	96.15%	Passed
320%	400 gallons	26	<1	96.15%	Passed
360%	450 gallons	23	<1	95.65%	Passed
400%	500 gallons	29	<1	96.55%	Passed
440%	550 gallons	29	<1	96.55%	Passed
480%	600 gallons	31	<1	96.77%	Passed
520%	650 gallons	30	1	96.67%	Passed
560%	700 gallons	33	<1	96.97%	Passed
600%	750 gallons	32	<1	96.88%	Passed
640%	800 gallons	31	<1	96.77%	Passed
680%	850 gallons	30	<1	96.67%	Passed
720%	900 gallons	27	<1	96.30%	Passed
760%	950 gallons	34	<1	97.06%	Passed
800%	1000 gallons	43	<1	97.67%	Passed

Cadmium Detection Limit: 1 µg/L



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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	125	33	73.60%	Passed

Selenium Detection Limit: 1 µCi/L

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