



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: Passed at 200 gallons

Date: 01/29/2024

Customer Name: James Enterprise Inc

Tested To: NSF/ANSI Std 401 Section 7, Group 1

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: 01/29/2024



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Standard 401 Emerging Compounds Group 1 Reduction PT 200%: Passed at 200 gallons.

Manufacturer's Name: James Enterprise Inc

Sample Type: Gravity Filter

Product: R & D

Flow Rate: 10 gpd

Filter Capacity: 200 Gallons

Conditioning Procedure: Discard first batch

Cycle: 15-60 min rest between loads

Physical Description of Sample: Gravity Filter

Test Description: NSF/ANSI Std 401 Section 7, Group 1– Emerging Compound Reduction Testing Group 1

Trade Designation/Model Number: BOROUX Foundation

Unit Volume: 100 mL

Performance Standard: NSF/ANSI Std 401 Section 7 – 2022

Pass/Fail Criteria (Emerging Compound Maximum Product Water Concentration):

Atenolol Passing criteria: 30 ng/L; **Carbamazepine** Passing criteria: 200 ng/L

DEET passing criteria: 200 ng/L; **Metolachlor** passing criteria: 200 ng/L

Meprobamate passing criteria: 60 ng/L; **Trimethoprim** passing criteria: 20 ng/L

Linuron passing criteria: 20 ng/L

Decision Rule: Pass/Fail based on simple acceptance of the analytical results above the NSF/ANSI Std limit.

Water Characteristics

Accumulated Volume Effluent	pH (7.5±0.5)	Temperature	TDS	Turbidity	TOC	Flow Rate
		(20±3°C)	200 to 500 mg/L	(<1 NTU)	(1-2 mg/L)	(gpd)
Start	7.32	20.1	227	0.3	1.3	10
25 gallons	7.36	20.0	238	0.2	1.3	10
50 gallons	7.34	20.0	229	0.3	1.3	10
75 gallons	7.4	20.1	256	0.3	1.3	10
90 gallons	7.38	19.9	253	0.2	1.2	10
100 gallons	7.41	20.0	256	0.3	1.2	10
150 gallons	7.50	19.6	245	0.4	1.3	10
200 gallons	7.46	19.5	237	0.4	1.3	10
250 gallons	7.56	19.5	264	0.4	1.2	10



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Trimethoprim Data Summary Table

Accumulated Volume Effluent	Influent Trimethoprim (ng/L)	Effluent Trimethoprim (ng/L)	Passed/Failed
Start	143	1	Passed
25 gallons	138	1	Passed
50 gallons	142	3	Passed
75 gallons	130	10	Passed
90 gallons	149	11	Passed
100 gallons	161	15	Passed
150 gallons	155	9	Passed
200 gallons	139	<1	Passed
250 gallons	150	1	Passed

Trimethoprim Reporting Limit: 1 ng/L

Atenolol Data Summary Table

Accumulated Volume Effluent	Influent Atenolol (ng/L)	Effluent Atenolol (ng/L)	Passed/Failed
Start	191	3	Passed
25 gallons	181	6	Passed
50 gallons	201	4	Passed
75 gallons	201	9	Passed
90 gallons	216	14	Passed
100 gallons	223	26	Passed
150 gallons	260	20	Passed
200 gallons	192	10	Passed

Atenolol Detecting Limit: 1 ng/L

Meprobamate Data Summary Table

Accumulated Volume Effluent	Influent Meprobamate (ng/L)	Effluent Meprobamate (ng/L)	Passed/Failed
Start	374	2	Passed
25 gallons	422	1	Passed
50 gallons	413	9	Passed
75 gallons	421	29	Passed
90 gallons	366	21	Passed
100 gallons	393	31	Passed
150 gallons	379	10	Passed
200 gallons	426	9	Passed

Meprobamate Reporting Limit: 1 ng/L

Carbamazepine Data Summary Table

Accumulated Volume Effluent	Influent (ng/L)	Effluent Concentration (ng/L)	Passed/Failed
Start	1469	<10	Passed
25 gallons	1434	<10	Passed
50 gallons	1457	18	Passed
75 gallons	1469	28	Passed
90 gallons	1425	78	Passed
100 gallons	1354	65	Passed
150 gallons	1430	57	Passed
200 gallons	1484	52	Passed
250 gallons	1412	57	Passed

Carbamazepine Reporting Limit: 10 ng/L



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DEET Data Summary Table

Accumulated Volume Effluent	Influent DEET (ng/L)	Effluent DEET (ng/L)	Passed/Failed
Start	1511	3	Passed
25 gallons	1383	4	Passed
50 gallons	1359	12	Passed
75 gallons	1328	36	Passed
90 gallons	1393	68	Passed
100 gallons	1418	68	Passed
150 gallons	1486	71	Passed
200 gallons	1439	52	Passed
250 gallons	1453	101	Passed

DEET Reporting Limit: 10 ng/L

Linuron Data Summary Table

Accumulated Volume Effluent	Influent Linuron (ng/L)	Effluent Linuron (ng/L)	Passed/Failed
Start	157	<1	Passed
25 gallons	163	<1	Passed
50 gallons	126	2	Passed
75 gallons	140	<1	Passed
90 gallons	155	<1	Passed
100 gallons	146	<1	Passed
150 gallons	158	<1	Passed
200 gallons	130	<1	Passed
250 gallons	150	<1	Passed

Linuron Reporting Limit: 1 ng/L

Metolachlor Data Summary Table

Accumulated Volume Effluent	Influent Metolachlor(ng/L)	Effluent Metolachlor (ng/L)	Passed/Failed
Start	1388	<10	Passed
25 gallons	1501	<10	Passed
50 gallons	1438	<10	Passed
75 gallons	1295	<10	Passed
90 gallons	1385	<10	Passed
100 gallons	1351	<10	Passed
150 gallons	1571	<10	Passed
200 gallons	1326	<10	Passed
250 gallons	1401	<10	Passed

Metolachlor Reporting Limit: 10 ng/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