

# BOROUX<sup>TM</sup>

foundation.

## Substance Reduction Test Report

Detailed performance and contaminant reduction data for  
the BOROUX foundation.<sup>TM</sup> filter.

Filter Model	BOROUX foundation. <sup>TM</sup> filter
Report Number	WFT-01-01
Test Type	Substance Reduction Test
Version	1.7
Report Date	April 9, 2024
Conducted For	BOROUX <sup>TM</sup> , 1981 Aspen Circle, Pueblo, CO 81006
Conducted By	IAPMO R&T <sup>®</sup> Lab (NJ)

# Testing Methodology and Quality Standards Overview

1. The test results presented were obtained using a single filter. For systems utilizing two filters, the capacity may be doubled.
2. The testing was carried out under controlled conditions in an ISO/IEC 17025:2017 accredited laboratory.
3. Influent Challenge Concentration Before Filtration and Maximum Allowable Effluent Concentration provided in the table below adhere to the specifications defined in the NSF/ANSI Standards 42, 53, and 401, except where those standards do not specify parameters for the listed substances.
4. The testing of Volatile Organic Compounds (VOCs) listed below utilized Chloroform as a surrogate chemical.
5. The results detailed in this report are intended solely for informational purposes and do not infer certification by any standard. The BOROUX foundation.™ filter has not been certified by NSF/ANSI or any other standard as of the publication date of this information.
6. Testing is continuing. Results will be updated accordingly.

Contaminant	Gallons Tested as of 04/09/24	Influent Challenge Concentration Before Filtration (ug/L)	Average Effluent Concentration After Filtration (ug/L)	Maximum Allowable Effluent Concentration (ug/L)	Testing Status
Chlorine	6000	2 mg/L	0.02 mg/L	1 mg/L	Concluded
Chloramine	4000	3 mg/L	0.05 mg/L	0.6 mg/L	On Going
PFOA	400	0.5	0.01		Concluded
PFOS	400	1	0.01		Concluded
PFOA+PFOS	400	1.5	0.01	0.02	Concluded
PFNA	400	0.05	0.01	0.02	Concluded
PFHxS	400	0.3	<0.01 †	0.02	Concluded
PFHpA	400	0.04	<0.01 †	0.02	Concluded
PFBS	400	0.25			Concluded
PFDA	400	0.01			Concluded
Total PFAS	400	2	0.01	0.02	Concluded
Lead pH 6.5	4000	150	1.7	5	Concluded
Lead pH 8.5	450	150	1.6	5	Concluded
Mercury pH 6.5	800	6	0.4	2	On going
Mercury pH 8.5	800	6	0.4	2	On going
Cadmium pH 6.5	350	30	1.6	5	Concluded
Cadmium pH 8.5	950	30	1.1	5	On going
Chromium (trivalent) pH 6.5	950	300	27	100	On going
Chromium (trivalent) pH 8.5	950	300	17	100	On going
Chromium (hexavalent) pH 6.5	250	300	42	100	Concluded
Chromium (hexavalent) pH 8.5	250	300	52	100	Concluded
Uranium	500	97	4.3	30	Concluded
Gross Beta (Cesium)	50	200 uCi/L	4.4 uCi/L	15 uCi/L	Concluded
Glyphosate	350	1800	99	800	Concluded
Trimethoprim	250	140 ng/L	6 ng/L	20 ng/L	Concluded
DEET	250	1400 ng/L	46 ng/L	200 ng/L	Concluded
Atenolol	200	200 ng/L	12 ng/L	30 ng/L	Concluded
Linuron	250	140 ng/L	1.1 ng/L	20 ng/L	Concluded
Meprobamate	200	400 ng/L	14 ng/L	60 ng/L	Concluded

Contaminant	Gallons Tested as of 04/09/24	Influent Challenge Concentration Before Filtration (ug/L)	Average Effluent Concentration After Filtration (ug/L)	Maximum Allowable Effluent Concentration (ug/L)	Testing Status
Metolachlor	250	1400 ng/L	<10 ng/L †	200 ng/L	Concluded
Carbamazepine	250	1400 ng/L	42 ng/L	200 ng/L	Concluded
TCEP	150	5000 ng/L	173 ng/L	700 ng/L	Concluded
TCPP	200	5000 ng/L	114 ng/L	700 ng/L	Concluded
Phenytoin	250	200 ng/L	3 ng/L	30 ng/L	Concluded
Ibuprofen	200	400 ng/L	22 ng/L	60 ng/L	Concluded
Naproxen	250	140 ng/L	2 ng/L	20 ng/L	Concluded
Estrone	250	140 ng/L	3 ng/L	20 ng/L	Concluded
Bisphenol A	200	2000 ng/L	75 ng/L	300 ng/L	Concluded
Nonylphenol	250	1400 ng/L	23 ng/L	200 ng/L	Concluded
Chloroform*	200	300	4.4	15	Concluded

† Below detectable levels.

\* Volatile organic chemicals (VOC's) listed below are included by chloroform surrogate testing.

Contaminant	Gallons Tested as of 04/09/2024	Testing Status	Contaminant	Gallons Tested as of 04/09/2024	Testing Status
alachlor	200	Concluded	haloketones (HK)	200	Concluded
atrazine	200	Concluded	1,1-dichloro-2-propanone	200	Concluded
benzene	200	Concluded	1,1,1-trichloro-2-propanone	200	Concluded
carbofuran	200	Concluded	heptachlor	200	Concluded
carbon tetrachloride	200	Concluded	heptachlor epoxide	200	Concluded
chlorobenzene	200	Concluded	hexachlorobutadiene	200	Concluded
chloropicrin	200	Concluded	hexachlorocyclopentadiene	200	Concluded
2,4-D	200	Concluded	lindane	200	Concluded
dibromochloropropane (DBCP)	200	Concluded	methoxychlor	200	Concluded
o-dichlorobenzene	200	Concluded	pentachlorophenol	200	Concluded
p-dichlorobenzene	200	Concluded	simazine	200	Concluded
1,2-dichloroethane	200	Concluded	styrene	200	Concluded
1,1-dichloroethylene	200	Concluded	1,1,2,2-tetrachloroethane	200	Concluded
cis-1,2-dichloroethylene	200	Concluded	tetrachloroethylene	200	Concluded
trans-1,2-dichloroethylene	200	Concluded	toluene	200	Concluded
1,2-dichloropropane	200	Concluded	2,4,5-TP (silvex)	200	Concluded
cis-1,3-dichloropropylene	200	Concluded	tribromoacetic acid	200	Concluded
dinoseb	200	Concluded	1,2,4-trichlorobenzene	200	Concluded
endrin	200	Concluded	1,1,1-trichloroethane	200	Concluded
ethylbenzene	200	Concluded	1,1,2-trichloroethane	200	Concluded
ethylene dibromide (EDB)	200	Concluded	trichloroethylene	200	Concluded
haloacetonitriles (HAN)	200	Concluded	trihalomethanes (includes)	200	Concluded
bromochloroacetonitrile	200	Concluded	bromoform	200	Concluded
dibromoacetonitrile	200	Concluded	bromodichloromethane	200	Concluded
dichloroacetonitrile	200	Concluded	chlorodibromomethane	200	Concluded
trichloroacetonitrile	200	Concluded	xylene (total)	200	Concluded