

BOROUXTM

foundation.

Substance Reduction Test Report

Detailed performance and contaminant reduction data for
the BOROUX foundation.TM filter.

Filter Model	BOROUX foundation. TM filter
Report Number	WFT-01-01
Test Type	Substance Reduction Test
Version	1.5
Report Date	January 25, 2024
Conducted For	BOROUX TM , 1981 Aspen Circle, Pueblo, CO 81006
Conducted By	IAPMO R&T [®] 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 01/25/24	Influent Challenge Concentration Before Filtration (ug/L)	Average Effluent Concentration After Filtration (ug/L)	Maximum Allowable Effluent Concentration (ug/L)	Testing Status
Chlorine	5000	2 mg/L	0.025 mg/L	1 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	On going
Mercury pH 6.5	250	6	0.3	2	On going
Mercury pH 8.5	250	6	0.4	2	On going
Cadmium pH 6.5	350	30	1.6	5	Concluded
Cadmium pH 8.5	400	30	1.2	5	On going
Chromium (trivalent) pH 6.5	400	300	29	100	On going
Chromium (trivalent) pH 8.5	400	300	19	100	On going
Chromium (hexavalent) pH 6.5	250	300	42	100	Concluded
Chromium (hexavalent) pH 8.5	250	300	52	100	Concluded
Uranium	100	83	<1 †	30	On going
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	On going
DEET	250	1400 ng/L	46 ng/L	200 ng/L	On going
Atenolol	200	200 ng/L	12 ng/L	30 ng/L	Concluded
Linuron	250	140 ng/L	1.1 ng/L	20 ng/L	On going
Meprobamate	200	400 ng/L	14 ng/L	60 ng/L	Concluded
Metolachlor	250	1400 ng/L	<10 ng/L †	200 ng/L	On going

Contaminant	Gallons Tested as of 01/25/24	Influent Challenge Concentration Before Filtration (ug/L)	Average Effluent Concentration After Filtration (ug/L)	Maximum Allowable Effluent Concentration (ug/L)	Testing Status
Carbamazepine	250	1400 ng/L	42 ng/L	200 ng/L	On going
TCEP	150	5000 ng/L	173 ng/L	700 ng/L	Concluded
TCPP	200	5000 ng/L	114 ng/L	700 ng/L	On going
Phenytoin	250	200 ng/L	3 ng/L	30 ng/L	On going
Ibuprofen	200	400 ng/L	22 ng/L	60 ng/L	Concluded
Naproxen	250	140 ng/L	2 ng/L	20 ng/L	On going
Estrone	250	140 ng/L	3 ng/L	20 ng/L	On going
Bisphenol A	200	2000 ng/L	75 ng/L	300 ng/L	Concluded
Nonylphenol	250	1400 ng/L	23 ng/L	200 ng/L	On going
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 01/25/2024	Testing Status
alachlor	200	Concluded
atrazine	200	Concluded
benzene	200	Concluded
carbofuran	200	Concluded
carbon tetrachloride	200	Concluded
chlorobenzene	200	Concluded
chloropicrin	200	Concluded
2,4-D	200	Concluded
dibromochloropropane (DBCP)	200	Concluded
o-dichlorobenzene	200	Concluded
p-dichlorobenzene	200	Concluded
1,2-dichloroethane	200	Concluded
1,1-dichloroethylene	200	Concluded
cis-1,2-dichloroethylene	200	Concluded
trans-1,2-dichloroethylene	200	Concluded
1,2-dichloropropane	200	Concluded
cis-1,3-dichloropropylene	200	Concluded
dinoseb	200	Concluded
endrin	200	Concluded
ethylbenzene	200	Concluded
ethylene dibromide (EDB)	200	Concluded
haloacetonitriles (HAN)	200	Concluded
bromochloroacetonitrile	200	Concluded
dibromoacetonitrile	200	Concluded
dichloroacetonitrile	200	Concluded
trichloroacetonitrile	200	Concluded

Contaminant	Gallons Tested as of 01/25/2024	Testing Status
haloketones (HK)	200	Concluded
1,1-dichloro-2-propanone	200	Concluded
1,1,1-trichloro-2-propanone	200	Concluded
heptachlor	200	Concluded
heptachlor epoxide	200	Concluded
hexachlorobutadiene	200	Concluded
hexachlorocyclopentadiene	200	Concluded
lindane	200	Concluded
methoxychlor	200	Concluded
pentachlorophenol	200	Concluded
simazine	200	Concluded
styrene	200	Concluded
1,1,2,2-tetrachloroethane	200	Concluded
tetrachloroethylene	200	Concluded
toluene	200	Concluded
2,4,5-TP (silvex)	200	Concluded
tribromoacetic acid	200	Concluded
1,2,4-trichlorobenzene	200	Concluded
1,1,1-trichloroethane	200	Concluded
1,1,2-trichloroethane	200	Concluded
trichloroethylene	200	Concluded
trihalomethanes (includes)	200	Concluded
bromoform	200	Concluded
bromodichloromethane	200	Concluded
chlorodibromomethane	200	Concluded
xylene (total)	200	Concluded