

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	1.3
Report Date	December 7, 2023
Conducted For	BOROUX TM , 1981 Aspen Circle, Pueblo, CO 81006
Conducted By	IAPMO R&T [®] Lab (NJ)

Testing Methodology and Quality Standards Overview

- The test results presented were obtained using a single filter. For systems utilizing two filters, the capacity may be doubled.
- The testing was carried out under controlled conditions in an ISO/IEC 17025:2017 accredited laboratory.
- 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.
- The testing of Volatile Organic Compounds (VOCs) listed below utilized Chloroform as a surrogate chemical.
- 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.
- Testing is continuing. Results will be updated accordingly.

Contaminant	Gallons Tested as of 12/07/23	Influent Challenge Concentration Before Filtration (ug/L)	Average Effluent Concentration After Filtration (ug/L)	Maximum Allowable Effluent Concentration (ug/L)	Testing Status
Chlorine	3500	2 mg/L	0.03 mg/L	1 mg/L	Passed
PFOA	250	0.5	<0.01 †		Passed
PFOS	250	1	<0.01 †		Passed
PFOA+PFOS	250	1.5	<0.01 †	0.02	Passed
PFNA	250	0.05	<0.01 †	0.006	Passed
PFHxS	250	0.3	<0.01 †	0.02	Passed
PFHpA	250	0.04	0.01	0.02	Passed
PFBS	250	0.25			Passed
PFDA	250	0.01			Passed
Total PFAS	250	2.15	0.01	0.02	Passed
Lead pH 6.5	3500	150	1.5	5	Passed
Lead pH 8.5	200	150	1	5	Passed
Mercury pH 6.5	100	6	0.3	2	Passed
Mercury pH 8.5	100	6	0.6	2	Passed
Cadmium pH 6.5	250	30	1.5	5	Passed
Cadmium pH 8.5	250	30	1.3	5	Passed
Chromium (trivalent) pH 6.5	250	300	19	100	Passed
Chromium (trivalent) pH 8.5	250	300	15	100	Passed
Chromium (hexavalent) pH 6.5	250	300	37	100	Passed
Chromium (hexavalent) pH 8.5	250	300	57	100	Passed
Uranium	90	82.7	<1 †	30	Passed
Gross Beta (Cesium)	50	200 uCi/L	10 uCi/L	15 uCi/L	Passed
Glyphosate	250	1800	<1 †	800	Passed
Trimethoprim	100	140 ng/L	6.8 ng/L	20 ng/L	Passed
DEET	100	1400 ng/L	68 ng/L	200 ng/L	Passed
Atenolol	100	200 ng/L	10 ng/L	30 ng/L	Passed
Linuron	100	140 ng/L	1.2 ng/L	20 ng/L	Passed
Meprobamate	100	400 ng/L	31 ng/L	60 ng/L	Passed
Metolachlor	100	1400 ng/L	<10 ng/L †	200 ng/L	Passed

Contaminant	Gallons Tested as of 12/07/23	Influent Challenge Concentration Before Filtration (ug/L)	Average Effluent Concentration After Filtration (ug/L)	Maximum Allowable Effluent Concentration (ug/L)	Testing Status
Carbamazepine	100	1400 ng/L	35 ng/L	200 ng/L	Passed
TCEP	100	5000 ng/L	79 ng/L	700 ng/L	Passed
TCCP	100	5000 ng/L	194 ng/L	700 ng/L	Passed
Phenytoin	100	200 ng/L	3.8 ng/L	30 ng/L	Passed
Ibuprofen	100	400 ng/L	17 ng/L	60 ng/L	Passed
Naproxen	100	140 ng/L	3.2 ng/L	20 ng/L	Passed
Estrone	100	140 ng/L	3 ng/L	20 ng/L	Passed
Bisphenol A	100	2000 ng/L	42 ng/L	300 ng/L	Passed
Nonylphenol	100	1400 ng/L	13 ng/L	200 ng/L	Passed
Chloroform*	200	300	4.4	15	Passed

† Below detectable levels.

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

Contaminant	Gallons Tested as of 12/07/23	Testing Status	Contaminant	Gallons Tested as of 12/07/23	Testing Status
Alachlor	250	Passed	Haloketones (HK)	250	Passed
Atrazine	250	Passed	1,1-dichloro-2-propanone	250	Passed
Benzene	250	Passed	1,1,1-trichloro-2-propanone	250	Passed
Carbofuran	250	Passed	Heptachlor	250	Passed
Carbon tetrachloride	250	Passed	Heptachlor epoxide	250	Passed
Chlorobenzene	250	Passed	Hexachlorobutadiene	250	Passed
Chloropicrin	250	Passed	Hexachlorocyclopentadiene	250	Passed
2,4-D	250	Passed	Lindane	250	Passed
Dibromochloropropane (DBCP)	250	Passed	Methoxychlor	250	Passed
O-dichlorobenzene	250	Passed	Pentachlorophenol	250	Passed
P-dichlorobenzene	250	Passed	Simazine	250	Passed
1,2-dichloroethane	250	Passed	Styrene	250	Passed
1,1-dichloroethylene	250	Passed	1,1,2,2-tetrachloroethane	250	Passed
Cis-1,2-dichloroethylene	250	Passed	Tetrachloroethylene	250	Passed
Trans-1,2-dichloroethylene	250	Passed	Toluene	250	Passed
1,2-dichloropropane	250	Passed	2,4,5-TP (silvex)	250	Passed
Cis-1,3-dichloropropylene	250	Passed	Tribromoacetic acid	250	Passed
Dinoseb	250	Passed	1,2,4-trichlorobenzene	250	Passed
Endrin	250	Passed	1,1,1-trichloroethane	250	Passed
Ethylbenzene	250	Passed	1,1,2-trichloroethane	250	Passed
Ethylene dibromide (EDB)	250	Passed	Trichloroethylene	250	Passed
Haloacetonitriles (HAN)	250	Passed	Trihalomethanes (includes)	250	Passed
Bromochloroacetonitrile	250	Passed	Bromoform	250	Passed
Dibromoacetonitrile	250	Passed	Bromodichloromethane	250	Passed
Dichloroacetonitrile	250	Passed	Chlorodibromomethane	250	Passed
Trichloroacetonitrile	250	Passed	Xylenes (total)	250	Passed