

## Performance Data for the ClearlyFiltered Inline Filter

Replacement Element	Product Type	Rated Capacity	Operating Temperatures
Model CF-INLINE	Plumbed	365 Gallons (1400 L)	38-85° F (4-30° C)
Testing Completed: 4/17/2018	Manufactured by: ClearlyFiltered, Inc. Rancho Santa Margarita, CA 877-876-2740		

Testing performed by Envirotek Laboratories, Wilmington, DE ([www.enviroteklab.com](http://www.enviroteklab.com)) 856-583-0445 in accordance with NSF Standards 42, 53 & 401 for water quality and the reduction of chemicals and contaminants. The water was spiked with the substances indicated below and then passed through the filter. The results are stated in the report below. All contaminants were reduced to a concentration equal to or less than the permissible limits set forth by NSF.

## Contaminant Reduction Results

### Chemical Additives

Contaminant	Challenge Water (mg/L)	Filtered Water (mg/L)	% Removal
Chlorine	2.12	0.03	98.6%
Chloramines	2.98	0.14	95.3%
Sodium Fluoride	2.20	0.10	99.5%

### Radiological

Contaminant	Challenge Water (pCi/L)	Filtered Water (pCi/L)	% Removal
Gross Alpha (Thorium 230)	263	1.2	99.5%
Gross Beta (Cesium 137)	51	1.3	97.5%

### Heavy Metals

Contaminant	Challenge Water (µg/L)	Filtered Water (µg/L)	% Removal
Aluminum	202	<1	99.9%
Arsenic	50.6	2.9	94.3%
Barium	929	1.5	99.8%
Beryllium	50.1	<1	99.9%
Cadmium	30.4	<1	99.9%
Chromium-6	302	1.7	99.4%
Copper	3025	24.4	99.2%
Iron	3030	90.9	97.0%
Lead	151	<1	99.9%
Manganese	1002	<1	99.9%
Mercury	6.1	<0.5	99.9%
Nickel	104	1.5	98.6%
Zinc	102	1.0	99.0%

### Herbicides

Contaminant	Challenge Water (µg/L)	Filtered Water (µg/L)	% Removal
2,4-D	21.1	<0.1	99.9%
2,4-DB	32.7	<0.1	99.9%
2,4,5-T	150.9	<0.1	99.9%
2,4,5-TP	17.6	<0.1	99.9%
3,5-Dichlorobenzoic	28.9	<0.1	99.9%
Acifluoren	42.7	<0.1	99.9%
Bentazon	38.5	<0.1	99.9%
Chloramben	28.1	<0.1	99.9%
Dalapon	270.4	<0.1	99.9%
DCPA	43.5	<0.1	99.9%
Dicamba	150.7	<0.1	99.9%
Diclorprop	150.2	<0.1	99.9%
Dinosep	52.9	<0.1	99.9%
Pentachlorophenol	22.9	<0.1	99.9%
Picloram	39	<0.1	99.9%
Quinclorac	43.5	<0.1	99.9%

## Pesticides

Contaminant	Challenge Water (µg/L)	Filtered Water (µg/L)	% Removal
Alachlor	501	<0.1	99.9%
2,4-D	50.1	<0.1	99.9%
Aldrin	48.5	<0.1	99.9%
Alpha-BHC	49	<0.1	99.9%
Atrazine	98.4	<0.1	99.9%
Beta-BHC	49.2	<0.1	99.9%
Bromacil	50.1	<0.1	99.9%
Butachlor	50.2	<0.1	99.9%
Butylate	42.5	<0.1	99.9%
Carbofuran	80.4	<0.1	99.9%
Chlorneb	50.5	<0.1	99.9%
Chlorprophane	52.5	<0.1	99.9%
Chlorpyriphos	50.2	<0.1	99.9%
Chlorthalonil	51.2	<0.1	99.9%
Cis-Chlordane	50.8	<0.1	99.9%
Cyanizine	50.5	<0.1	99.9%
Delta-BHC	50.1	<0.1	99.9%
Dichlorvos	51.4	<0.1	99.9%
Dieldrin	47.5	<0.1	99.9%
Diphenamid	49	<0.1	99.9%
Disulfoton	50.2	<0.1	99.9%
Endosulfan I	42.9	<0.1	99.9%
Endosulfan II	41.2	<0.1	99.9%
Endosulfan Sulfate	51.5	<0.1	99.9%
Endrin	62.1	<0.1	99.9%
Endrin Aldehyde	45.1	<0.1	99.9%
Endrin Ketone	50.3	<0.1	99.9%
Ethoprop	50.4	<0.1	99.9%
Fenamiphos	52.1	<0.1	99.9%
Fenarimol	50	<0.1	99.9%
Fluoridone	50.1	<0.1	99.9%
Gamma-BHC (Lindane)	50.2	<0.1	99.9%
Glyphosate	804	<0.1	99.9%
Heptachlor	48.4	<0.1	99.9%
Heptachlor Epoxide	50.5	<0.1	99.9%
Hexachlorobenzene	50.1	<0.1	99.9%
Hexachlorocyclopentadie	52	<0.1	99.9%
Methoxychlor	50.1	<0.1	99.9%
Metolachlor	50.2	<0.1	99.9%
Metribuzin	50.8	<0.1	99.9%
Molinate	51.1	<0.1	99.9%
p,p'-DDD	44.1	<0.1	99.9%
p,p'-DDE	56.4	<0.1	99.9%
p,p'-DDT	60.5	<0.1	99.9%
PCB's	10.4	<0.1	99.9%
Propachlor	50.2	<0.1	99.9%
Simazine	50	<0.1	99.9%
Toxaphene	15.1	<0.1	99.9%
Trans-Chlordane	50.5	<0.1	99.9%

## Pharmaceutical Drugs

Contaminant	Challenge Water (µg/L)	Filtered Water (µg/L)	% Removal
Bisphenol A	2.05	<0.02	99.9%
17-alpha-Ethynylestradiol	2.14	<0.10	99.9%
17-beta-Estradiol	1.99	<0.10	99.9%
4-para-Nonylphenol	2.28	<0.10	99.9%
4-tert-Octylphenol	2.05	<0.10	90.2%
Acetaminophen	2.42	<0.10	99.9%
Caffeine	1.82	<0.10	99.9%
Carbamazepine	1.43	<0.10	99.9%
Ciprofloxacin	2.6	<0.10	99.9%
Diclofenac Sodium	1.9	<0.10	99.9%
Estrone	0.23	<0.10	99.9%
Fluoxetine	1.91	<0.10	99.9%
Gemfibrozil	1.92	<0.10	99.9%
Ibuprofen	0.45	<0.10	99.9%
Naproxen	0.21	<0.10	99.9%
Primidone	1.97	<0.10	99.9%
Progesterone	2.08	0.22	89.4%
Sulfamethoxazole	1.95	<0.10	99.9%
Testosterone	1.44	0.30	79.2%
Triclosan	1.24	<0.10	99.9%
Trimethoprim	0.2	<0.10	99.9%

## Chemicals

Contaminant	Challenge Water (µg/L)	Filtered Water (µg/L)	% Removal
Bromodichloromethane	84	<0.1	99.9%
Bromoform	84.9	<0.1	99.9%
Chlorodibromomethane	80.5	<0.1	99.9%
Chloroform	85.7	1.39	98.4%
Fluorotelomer alcohol 8:2	1.04	<0.002	99.9%
Perfluorobutane Sulfonate	1.04	<0.002	99.9%
Perfluorodecanoic acid	0.52	<0.002	99.9%
Perfluorohexane Sulfonate	1.04	<0.002	99.9%
Perfluorohexanoic acid	0.52	<0.002	99.9%
Perfluorononanoic acid	0.52	<0.002	99.9%
Perfluorooctane Sulfonate	1.04	<0.002	99.9%
Perfluorooctanoic Acid (*)	0.52	<0.002	99.9%
Polytetrafluoroethylene	1.04	<0.002	99.9%
Total Trihalomethanes	335	1.39	99.6%

## Volatile Organic Compounds (VOCs)

Contaminant	Challenge Water (µg/L)	Filtered Water (µg/L)	% Removal
1, 1-Dichloroethane	92.8	<0.50	99.9%
1, 1-Dichloroethene	77.8	<0.50	99.9%
1, 1-Dichloropropane	8.7	<0.50	99.9%
1, 1, 1-Trichloroethane	84.8	<0.50	99.9%
1, 1, 2-Trichloroethane	110.2	<0.50	99.9%
1, 1, 2, 2-Tetrachloroethane	81.2	<0.50	99.9%
1, 2-Dichlorobenzene	80.0	<0.50	99.9%
1, 2-Dichloroethane	88.5	<0.50	99.9%
1, 2-Dichloropropane	80.1	<0.50	99.9%
1, 2, 3-Trichlorobenzene	14.2	<0.50	99.9%
1, 2, 3-Trichloropropane	19.2	<0.50	99.9%
1, 2, 4-Trichlorobenzene	13.6	<0.50	99.9%
1, 2, 4-Trimethylbenzene	9.8	<0.50	99.9%
1, 3-Dichlorobenzene	40.2	<0.50	99.9%
1, 3-Dichloropropane	92.6	<0.50	99.9%
1, 3, 5-Trimethylbenzene	9.4	<0.50	99.9%
1, 4-Dichlorobenzene	40.0	<0.50	99.9%
1,1-Dichloro-2-propanone	7.5	<0.50	99.9%
1,1,1-Trichloro-2-propanone	14.2	<0.50	99.9%
2-Chlorotoluene	10.0	<0.50	99.9%
2, 2-Dichloropropane	10.0	<0.50	99.9%
4-Chlorotoluene	10.9	<0.50	99.9%
4-Isopropyltoluene	10.3	<0.50	99.9%
Benzene	80.0	<0.50	99.9%
Bromoacetonitrile	22.5	<0.50	99.9%
Bromobenzene	12.5	<0.50	99.9%
Bromochloromethane	79.8	<0.50	99.9%
Bromomethane	22.3	<0.50	99.9%
Carbon Tetrachloride	88.0	<0.50	99.9%
Chlorobenzene	77.2	<0.50	99.9%
Chloroethane	28.1	<0.50	99.9%
Chloromethane	52.2	<0.50	99.9%
cis-1, 2-Dichloroethene	181.0	1.00	99.9%
cis-1, 3-Dichloropropene	79.5	<0.50	99.9%
Dibromo-3-Chloropropane	50.2	<0.50	99.9%
Dibromoacetonitrile	24.6	<0.50	99.9%
Dibromomethane	18.5	<0.50	99.9%
Dichloroacetonitrile	9.9	<0.50	99.9%
Ethylbenzene	88.2	<0.50	99.9%
Ethylene Dibromide (EDB)	44.8	<0.50	99.9%
Flourotrichloromethane	28.3	<0.50	99.9%
Hexachlorobutadiene	44.2	<0.50	99.9%
Isopropylbenzene	6.8	<0.50	99.9%
m and p-Xylene	80.3	<0.50	99.9%
Methylene Chloride	18.2	<0.50	99.9%
MTBE	73.4	<0.50	99.9%
n-Butylbenzene	10.0	<0.50	99.9%
n-propylbenzene	9.4	<0.50	99.9%
Naphthalene	160.0	<0.50	99.9%
o-Xylene	40.2	<0.50	99.9%
sec-Butylbenzene	7.9	<0.50	99.9%
Styrene	150.0	<0.50	99.9%
Tert-Butylbenzene	10.1	<0.50	99.9%
Tetrachloroethene	85.6	<0.50	99.9%
Toluene	78.3	<0.50	99.9%
trans-1, 2-Dichloroethene	78.4	<0.50	99.9%
trans-1, 3-Dichloropropene	79.9	<0.50	99.9%
Trichloroacetonitrile	15.0	<0.50	99.9%
Trichloroethene	180.0	<0.50	99.9%
Vinylchloride	43.3	<0.50	99.9%

## Semi Volatile Compounds

Contaminant	Challenge Water (µg/L)	Filtered Water (µg/L)	% Removal
1,2-Dichlorobenzene	49.8	<0.1	99.9%
1,2,4-Trichlorobenzene	48.4	<0.1	99.9%
1,3-Dichlorobenzene	49.8	<0.1	99.9%
1,4-Dichlorobenzene	50	<0.1	99.9%
2-Chloronaphthalene	49.4	<0.1	99.9%
2-Chlorophenol	49.5	<0.1	99.9%
2-Nitrophenol	48.8	<0.1	99.9%
2,2-Dimethylphenol	48.1	<0.1	99.9%
2,2-Oxybis(1-chloropropane)	49.4	<0.1	99.9%
2,4-Dichlorophenol	48.9	<0.1	99.9%
2,4-Dinitrophenol	50	<0.1	99.9%
2,4-Dinitrotoluene	49.2	<0.1	99.9%
2,4,6-Trichlorophenol	50	<0.1	99.9%
2,6-Dinitrotoluene	46.5	<0.1	99.9%
4-Bormophenyl phenyl ether	47.8	<0.1	99.9%
4-Chloro-3-methylphenol	49.6	<0.1	99.9%
4-Chlorophenyl phenyl ether	49.8	<0.1	99.9%
4-Nitrotoluene	47.5	<0.1	99.9%
Acenaphthene	35.9	<0.1	99.9%
Acenaphthylene	50.1	<0.1	99.9%
Anthracene	49.8	<0.1	99.9%
Benzo(a) anthracene	50.3	<0.1	99.9%
Benzo(a) pyrene	50.5	<0.1	99.9%
Benzo(b) fluoranthene	52.3	<0.1	99.9%
Benzo(g,h,i) perylene	50.2	<0.1	99.9%
Benzo(k) fluoranthene	52.3	<0.1	99.9%
Benzyl butyl phthalate	50.9	<0.1	99.9%
Bis(2-chloroethoxy)methane	47.1	<0.1	99.9%
Bis(2-chloroethyl) ether	51.8	<0.1	99.9%
Bis(2-ethylhexyl) phthalate	52.6	<0.1	99.9%
Chrysene	50.5	<0.1	99.9%
Di-n-butylphthalate	50.3	<0.1	99.9%
Di-n-octyl phthalate	50.1	<0.1	99.9%
Dibenzo(a,h)anthracene	50.3	<0.1	99.9%
Diethylphthalate	50.1	<0.1	99.9%
Dimethylphthalate	49.2	<0.1	99.9%
Dinitro-o-cresol	48.5	<0.1	99.9%
Diphenylamine	73.2	<0.1	99.9%
Fluoranthene	50.4	<0.1	99.9%
Fluorene	47.8	<0.1	99.9%
Haxachlorobenzene	48.8	<0.1	99.9%
Hexachlorobutadiene	49.6	<0.1	99.9%
Hexachlorocyclopentadiene	50.9	<0.1	99.9%
Hexachloroethane	48.4	<0.1	99.9%
Indeno(1,2,3-cd) pyrene	50.8	<0.1	99.9%
Isophrone	48.8	<0.1	99.9%
N-Nitroso-di-n-propylamine	50.2	<0.1	99.9%
N-Nitrosodimethylamine	50.6	<0.1	99.9%
Naphthalene	47.3	<0.1	99.9%
Nitrobenzene	48.9	<0.1	99.9%
Pentachlorophenol	50.3	<0.1	99.9%
Phenanthrene	49.8	<0.1	99.9%
Phenol	50.9	<0.1	99.9%
Pyrene	49.6	<0.1	99.9%