# Performance Data for the ClearlyFiltered Water Pitcher and Filter

| Replacement Element | Product Type | Rated Capacity | Operating Temperatures |
|---|---|---|---|
| Model CF-PRF | Gravity-Fed Water Pitcher | 100 Gallons (378 L) | 38-85° F (4-30° C) |
| Testing Completed: 3/16/2018 | Manufactured by: ClearlyFiltered, Inc. Rancho Santa Margarita, CA 877-876-2740 | | |

*Testing performed by Envirotek Laboratories, Wilmington, DE (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 | 4.0 | <0.10 | 99.9% |
| Chloramine | 4.0 | <0.10 | 99.9% |
| Fluoride 2ppm | 2.16 | 0.04 | 98.2% |
| Fluoride 4ppm | 3.94 | 0.08 | 98.0% |
| Fluoride 8ppm | 8.19 | 0.25 | 96.9% |

## Heavy Metals

| Contaminant | Challenge Water (µg/L) | Filtered Water (µg/L) | % Removal |
|---|---|---|---|
| Antimony | 6 | <0.50 | 99.9% |
| Arsenic | 388 | 1.50 | 99.6% |
| Barium | 1,104 | 1.50 | 99.9% |
| Beryllium | 6 | <0.50 | 99.9% |
| Cadmium | 29.4 | <0.50 | 99.9% |
| Chromium-6 | 306 | 9.50 | 96.9% |
| Copper | 3092 | <0.50 | 99.9% |
| Iron | 3020 | 18.60 | 99.4% |
| Lead | 148 | 0.70 | 99.5% |
| Nickel | 110 | 2.20 | 98.0% |
| Mercury | 6 | <0.50 | 99.9% |
| Manganese | 1057 | 1.20 | 99.9% |
| Selenium | 100 | 1.20 | 98.8% |
| Thallium | 6 | <0.50 | 99.9% |
| Zinc | 1449 | 65.20 | 95.5% |

## Microorganisms

| Contaminant | Challenge Water (CFU/L) | Filtered Water (CFU/L) | % Removal |
|---|---|---|---|
| E. Coli | $10^8$/L | 30 CFU/L | 99.9% |
| Cryptosporidium | $10^8$/L | 50 CFU/L | 99.9% |
| Giardia | $10^8$/L | 50 CFU/L | 99.9% |
| Klebsiella Pneumoniae | $10^8$/L | 30 CFU/L | 99.9% |
| Pseudomona Aeruginosa | $10^8$/L | 40 CFU/L | 99.9% |

## Radiological

| Contaminant | Challenge Water (pCi) | Filtered Water (pCi) | % Removal |
|---|---|---|---|
| Gross Alpha (Thorium 230) | 45 | <1 | 99.9% |
| Gross Beta (Cesium 137) | 46 | <1 | 99.9% |

## Pharmaceutical Drugs

| Contaminant | Challenge Water (µg/L) | Filtered Water (µg/L) | % Removal |
|---|---|---|---|
| Caffeine | 20.0 | <0.10 | 99.9% |
| Acetaminophen | 20.3 | <0.10 | 99.9% |
| Ibuprofen | 20.4 | <0.10 | 99.9% |
| Naproxen Sodium | 20.5 | <0.10 | 99.9% |
| Diclofenac Sodium | 20.4 | <0.10 | 99.9% |

## Pharmaceutical Drugs - Continued

| Contaminant | Challenge Water (µg/L) | Filtered Water (µg/L) | % Removal |
|---|---|---|---|
| Carbamazepine | 20.1 | <0.10 | 99.9% |
| Primidone | 20.3 | <0.10 | 99.9% |
| Ciprofloxacin | 20.2 | <0.10 | 99.9% |
| Erythromycin | 20.1 | <0.10 | 99.9% |
| Sulamethoxazole | 20.2 | <0.10 | 99.9% |
| Trimethoprim | 20.0 | <0.10 | 99.9% |
| Triclosan | 20.2 | <0.10 | 99.9% |
| Gemfibrozil | 20.1 | <0.10 | 99.9% |

## Herbicides

| Contaminant | Challenge Water (µg/L) | Filtered Water (µg/L) | % Removal |
|---|---|---|---|
| Acifuorfen | 99.7 | <0.10 | 99.9% |
| Bemtazon | 100.3 | <0.10 | 99.9% |
| Chloramben | 94.7 | <0.10 | 99.9% |
| Dalapon | 100.0 | 6.80 | 93.2% |
| Dicamba | 102.8 | <0.10 | 99.9% |
| Hexachloropentadiene | 100.4 | <0.10 | 99.9% |
| Pentachlorophenol | 100.5 | <0.10 | 99.9% |
| Quinchlorac | 100.2 | <0.10 | 99.9% |
| Silvex | 100.8 | <0.10 | 99.9% |

## Pesticides

| Contaminant | Challenge Water (µg/L) | Filtered Water (µg/L) | % Removal |
|---|---|---|---|
| 2,4-D | 50.1 | <0.10 | 99.9% |
| Alachlor | 498 | 0.11 | 99.9% |
| Aldrin | 48.5 | <0.10 | 99.9% |
| Atrazine | 98.4 | 0.12 | 99.9% |
| Bromacil | 50.1 | <0.10 | 99.9% |
| Butachlor | 50.3 | <0.10 | 99.9% |
| Butylate | 42.5 | <0.10 | 99.9% |
| Chlorpyriphos | 50.2 | <0.10 | 99.9% |
| Cyanizine | 50.5 | <0.10 | 99.9% |
| Carbofuran | 80.2 | <0.10 | 99.9% |
| Chlorneb | 50.5 | <0.10 | 99.9% |
| Chlorthalonil | 51.2 | <0.10 | 99.9% |
| Chlorprophane | 52.5 | <0.10 | 99.9% |
| Cis-Chlordane | 50.8 | <0.10 | 99.9% |
| DDD | 44.2 | <0.10 | 99.9% |
| DDE | 56.4 | <0.10 | 99.9% |
| DDT | 60.5 | <0.10 | 99.9% |

## Pesticides - Contintued

| Contaminant | Challenge Water (µg/L) | Filtered Water (µg/L) | % Removal |
|---|---|---|---|
| Dieldrin | 47.50 | <0.10 | 99.9% |
| Dichlorvos | 51.4 | <0.10 | 99.9% |
| Diphenamid | 49.0 | <0.10 | 99.9% |
| Disulfoton | 50.2 | <0.10 | 99.9% |
| Endrin | 62.1 | <0.10 | 99.9% |
| Endosulfan I | 42.9 | <0.10 | 99.9% |
| Endosulfan II | 41.2 | <0.10 | 99.9% |
| Endosulfan Sulfate | 51.0 | <0.10 | 99.9% |
| Endrin Aldehyde | 45.1 | <0.10 | 99.9% |
| Endrin Keytone | 50.3 | <0.10 | 99.9% |
| Ethoprop | 50.4 | <0.10 | 99.9% |
| Fenaiphos | 52.0 | <0.10 | 99.9% |
| Fenarimol | 50.0 | <0.10 | 99.9% |
| Fluoridone | 50.1 | <0.10 | 99.9% |
| Glyphosate | 802 | <0.10 | 99.9% |
| Heptachlor | 48.4 | <0.10 | 99.9% |
| Heptachlor Epoxide | 50.5 | <0.10 | 99.9% |
| Hexachlorobenzene | 50.1 | <0.10 | 99.9% |
| Hexachlorocyclopentadiene | 52.0 | <0.10 | 99.9% |
| Molinate | 51.0 | <0.10 | 99.9% |
| Metribuzin | 50.8 | <0.10 | 99.9% |
| Methoxychlor | 50.1 | <0.10 | 99.9% |
| Metolachlor | 50.2 | <0.10 | 99.9% |
| Nano-Chlordane | 48.5 | <0.10 | 99.9% |
| PCB’s | 10.4 | 0.12 | 99.9% |
| Propachlor | 50.2 | <0.10 | 99.9% |
| Simazine | 50.0 | <0.10 | 99.9% |
| Toxaphene | 15.1 | <0.10 | 99.9% |
| Trans-Chlordane | 50.5 | <0.10 | 99.9% |
| Alpha-BHC | 49.0 | <0.10 | 99.9% |
| Beta-BHC | 49.5 | <0.10 | 99.9% |
| Delta-BHC | 50.1 | <0.10 | 99.9% |
| Gamma-BHC | 50.2 | <0.10 | 99.9% |

## Chemicals

| Contaminant | Challenge Water (µg/L) | Filtered Water (µg/L) | % Removal |
|---|---|---|---|
| Bisphenol-A (BPA) | 20.1 | <0.10 | 99.9% |
| Perfluoroctanoic Acid (PFOA) | 2.03 | 0.04 | 99.6% |
| Phthalates | 40.4 | <0.10 | 99.9% |
| Phosphate | 10.0 | 0.30 | 97.0% |
| Nitrate | 27 | 0.20 | 99.3% |
| Progesterone | 20.0 | <0.10 | 99.9% |
| 4-para-Nonylphenol | 20.2 | <0.10 | 99.9% |
| 4-tert-Octylphenol | 20.1 | <0.10 | 99.9% |

## Volatile Organic Compounds (VOCs)

| Contaminant | Challenge Water (µg/L) | Filtered Water (µg/L) | % Removal |
|---|---|---|---|
| 1,1-Dichloroethane | 51.01 | <0.50 | 99.9% |
| 1,1-Dichloroethene | 58.07 | <0.50 | 99.9% |
| 1,1-Dichloropropene | 43.78 | <0.50 | 99.9% |
| 1,1,1-Trichloroethane | 56.19 | <0.50 | 99.9% |
| 1,1,1,2-Tetrachloroethane | 51.42 | <0.50 | 99.9% |
| 1,1,2-Trichloroethane | 74.20 | <0.50 | 99.9% |
| 1,1,2-Trichloroethane | 54.83 | <0.50 | 99.9% |
| 1,2-Dichlorobenzene | 76.24 | <0.50 | 99.9% |
| 1,2-Dichloroethane | 71.19 | <0.50 | 99.9% |
| 1,2-Dichloropropane | 67.47 | <0.50 | 99.9% |
| 1,2,3-Trichlorobenzene | 58.35 | <0.50 | 99.9% |
| 1,2,3-Trichloropropane | 54.13 | <0.50 | 99.9% |
| 1,2,4-Trichlorobenzene | 52.77 | <0.50 | 99.9% |
| 1,2,4-Trimethylbenzene | 51.82 | <0.50 | 99.9% |
| 1,3-Dichlorobenzene | 54.32 | <0.50 | 99.9% |
| 1,3-Dichloropropane | 54.46 | <0.50 | 99.9% |
| 1,3,5-Trimethylbenzene | 51.62 | <0.50 | 99.9% |
| 1,4-Dichlorobenzene | 67.91 | <0.50 | 99.9% |
| 2-Chlorotoluene | 51.10 | <0.50 | 99.9% |
| 2,2-Dichloropropane | 45.94 | <0.50 | 99.9% |
| 4-Chlorotoluene | 51.68 | <0.50 | 99.9% |
| 4-Isopropyltoluene | 49.31 | <0.50 | 99.9% |
| Benzene | 50.13 | <0.50 | 99.9% |
| Bromobenzene | 46.42 | <0.50 | 99.9% |
| Bromochloromethane | 57.23 | <0.50 | 99.9% |
| Bromodichloromethane | 22.56 | <0.50 | 99.9% |
| Bromoform | 74.2 | <0.50 | 99.9% |
| Bromomethane | 55.77 | <0.50 | 99.9% |
| Carbon Tetrachloride | 53.41 | <0.50 | 99.9% |
| Chlorobenzene | 64.20 | <0.50 | 99.9% |
| Chlorodibromomethane | 58.65 | <0.50 | 99.9% |
| Chloroethane | 63.44 | <0.50 | 99.9% |
| Chloroform | 294.40 | 1.00 | 99.7% |
| Chloromethane | 56.85 | <0.50 | 99.9% |
| cis-1,2-Dichloroethene | 65.78 | <0.50 | 99.9% |
| cis-1,3-Dichloropropene | 53.70 | <0.50 | 99.9% |
| Dibromomethane | 56.17 | <0.50 | 99.9% |
| Dichlorodifluoromethane | 50.91 | <0.50 | 99.9% |
| Ethylbenzene | 31.42 | <0.50 | 99.9% |
| Hexachlorobutadiene | 76.96 | <0.50 | 99.9% |
| Isopropyl benzene | 47.12 | <0.50 | 99.9% |
| m-Xylene | 99.80 | <0.50 | 99.9% |
| MTBE | 56.47 | <0.50 | 99.9% |
| n-Butylbenzene | 47.83 | <0.50 | 99.9% |
| n-Propylbenzene | 56.95 | <0.50 | 99.9% |
| Naphthalene | 53.16 | <0.50 | 99.9% |
| o-Xylene | 77.59 | <0.50 | 99.9% |
| sec-Butylbenzene | 45.94 | <0.50 | 99.9% |
| Styrene | 55.89 | <0.50 | 99.9% |
| tert-Butylbenzene | 50.19 | <0.50 | 99.9% |
| Tetrachloroethene | 59.54 | <0.50 | 99.9% |
| Toluene | 48.57 | <0.50 | 99.9% |
| trans-1,2-Dichloroehene | 60.51 | <0.50 | 99.9% |
| trans-1,3- | 55.32 | <0.50 | 99.9% |
| Trichloroethene | 54.15 | <0.50 | 99.9% |
| Trichlorofluoromethane | 43.57 | <0.50 | 99.9% |
| Vinyl chloride | 62.17 | <0.50 | 99.9% |

## Semi-Volatile Compounds

| Contaminant | Challenge Water (µg/L) | Filtered Water (µg/L) | % Removal |
|---|---|---|---|
| 1,2-Dichlorobenzene | 49.71 | <0.10 | 99.9% |
| 1,2,4-Trichlorobenzene | 48.90 | <0.10 | 99.9% |
| 1,3-Dichlorobenzene | 49.77 | <0.10 | 99.9% |
| 1,4-Dichlorobenzene | 49.66 | <0.10 | 99.9% |
| 2-Chloronaphthalene | 49.41 | <0.10 | 99.9% |
| 2-Chlorophenol | 49.62 | <0.10 | 99.9% |
| 2-Nitrophenol | 49.94 | <0.10 | 99.9% |
| 2,2-Dimethylphenol | 50.02 | <0.10 | 99.9% |
| 2,2-Oxybis(1-chloropropane) | 49.68 | <0.10 | 99.9% |
| 2,4-Dichlorophenol | 50.33 | <0.10 | 99.9% |
| 2,4-Dinitrophenol | 49.33 | <0.10 | 99.9% |
| 2,4-Dinitrotoluene | 49.43 | <0.10 | 99.9% |
| 2,4,6-Trichlorophenol | 49.34 | <0.10 | 99.9% |
| 2,6-Dinitrotoluene | 49.39 | <0.10 | 99.9% |
| 4-Bormophenyl phenyl ether | 49.52 | <0.10 | 99.9% |
| 4-Chloro-3-methylphenol | 49.65 | <0.10 | 99.9% |
| 4-Chlorophenyl phenyl ether | 50.78 | <0.10 | 99.9% |
| 4-Nitrotoluene | 49.40 | <0.10 | 99.9% |
| Acenaphthene | 49.16 | <0.10 | 99.9% |
| Acenaphthylene | 49.41 | <0.10 | 99.9% |
| Anthracene | 49.32 | <0.10 | 99.9% |
| Benzo(a) anthracene | 49.31 | <0.10 | 99.9% |
| Benzo(a) pyrene | 49.37 | <0.10 | 99.9% |
| Benzo(b) fluoranthene | 49.88 | <0.10 | 99.9% |
| Benzo(g,h,i) perylene | 49.32 | <0.10 | 99.9% |
| Benzo(k) fluoranthene | 49.36 | <0.10 | 99.9% |
| Benzyl butyl phthalate | 49.41 | <0.10 | 99.9% |
| Bis(2-chloroethoxy)methane | 49.47 | <0.10 | 99.9% |
| Bis(2-chloroethyl) ether | 49.86 | <0.10 | 99.9% |
| Bis(2-ethylhexyl) phthalate | 49.37 | 0.64 | 98.7% |
| Chrysene | 49.39 | 3.65 | 92.6% |
| Di-n-butylphthalate | 49.29 | <0.10 | 99.9% |
| Di-n-octyl phthalate | 49.27 | <0.10 | 99.9% |
| Dibenzo(a,h)anthracene | 49.35 | <0.10 | 99.9% |
| Diethylphthalate | 40.47 | <0.10 | 99.9% |
| Dimethylphthalate | 49.49 | <0.10 | 99.9% |
| Dinitro-o-cresol | 50.78 | <0.10 | 99.9% |
| Diphenylamine | 40.47 | <0.10 | 99.9% |
| Fluoranthene | 49.31 | <0.10 | 99.9% |
| Fluorene | 49.39 | <0.10 | 99.9% |
| Haxachlorobenzene | 48.06 | 1.53 | 96.8% |
| Hexachlorobutadiene | 49.40 | <0.10 | 99.9% |
| Hexachlorocyclopentadiene | 49.19 | <0.10 | 99.9% |
| Hexachloroethane | 49.77 | <0.10 | 99.9% |
| Indeno(1,2,3-cd) pyrene | 49.28 | <0.10 | 99.9% |
| Isophrone | 49.85 | <0.10 | 99.9% |
| N-Nitroso-di-n-propylamine | 49.98 | <0.10 | 99.9% |
| N-Nitrosodimethylamine | 49.84 | <0.10 | 99.9% |
| Naphthalene | 49.37 | <0.10 | 99.9% |
| Nitrobenzene | 49.66 | <0.10 | 99.9% |
| Pentachlorophenol | 49.96 | 0.84 | 98.3% |
| Phenantherene | 49.18 | <0.10 | 99.9% |
| Phenol | 49.87 | <0.10 | 99.9% |
| Pyrene | 47.15 | <0.10 | 99.9% |