

# **ENVIROTEK LABORATORIES, INC.**

120 White Owl Trail, Mullica Hill, NJ 08062  
PHONE 856-478-0010 [www.enviroteklab.com](http://www.enviroteklab.com)  
EPA ID # NJ01298 NJ DEP ID # 08012

## **TEST RESULTS**

**FOR**

**New Millennium Concepts, LTD.**

**PO BOX 201411**

**ARLINGTON, TX 48390**

**Berkey Earth DE Filter Element**

**NSF Standard 53, and NSF Standard 42**

**Chemical Reduction Tests Results**

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## BERKEY EARTH DE FILTER ELEMENT TEST REPORT

Report # 14-257 (Berkey Earth Filter Element)  
 Report Date: 10/08/2014  
 Customer Name: New Millennium Concepts, LTD.

Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	Berkey Earth DE Filter Element Effluent Concentration in µg/L	% Reduction
<b>Volatil Organic Contaminants in µg/L</b>			
Dichlorodifluoromethane	80.3	<0.5	99.9
Chloromethane	80.2	<0.5	99.9
Vinylchloride	80.1	<0.5	99.9
Bromomethane	80.2	<0.5	99.9
Chloroethane	80.21	<0.5	99.9
Trichlorofluoromethane	81.2	<0.5	99.9
1,1-Dichloroethene	83.3	<0.5	99.9
Methylene Chloride	81.1	<0.5	99.9
trans-1,2-Dichloroethene	81.0	<0.5	99.9
MTBE	80.0	<0.5	99.9
1,1-Dichloroethane	79.9	<0.5	99.9
cis-1,2-Dichloroethene	170.0	<0.5	99.9
2,2-Dichloropropane	79.8	<0.5	99.9
Bromochloromethane	79.7	<0.5	99.9
Chloroform	80.0	<0.5	99.9
Carbon Tetrachloride	79.5	<0.5	99.9
1,1,1-Trichloroethane	80.4	<0.5	99.9
1,1-Dichloropropene	79.9	<0.5	99.9
Benzene	81.2	<0.5	99.9
1,2-Dichloroethane	89.0	<0.5	99.9
Trichloroethene	182.3	<0.5	99.9
Dibromomethane	79.9	<0.5	99.9
1,2-Dichloropropane	80.4	<0.5	99.9
Bromodichloromethane	80.1	<0.5	99.9
cis-1,3-Dichloropropene	50.3	<0.5	99.9
Toluene	79.2	<0.5	99.9
trans-1,3-Dichloropropene	80.2	<0.5	99.9
Tetrachloroethene	80.5	<0.5	99.9
1,1,2-Trichloroethane	152.2	<0.5	99.9
Chlorodibromomethane	80.2	<0.5	99.9
1,3-Dichloropropane	80.2	<0.5	99.9
Ethylbenzene	89.2	<0.5	99.9
Chlorobenzene	78.2	<0.5	99.9
1,1,1,2-Tetrachloroethane	79.2	<0.5	99.9
m-Xylene	70.2	<0.5	99.9
o-Xylene	70.2	<0.5	99.9
Styrene	80.1	<0.5	99.9
Bromoform	80.1	<0.5	99.9
Isopropylbenzene	80.3	<0.5	99.9
n-Propylbenzene	80.2	<0.5	99.9
Bromobenzene	80.5	<0.5	99.9
1,1,2,2-Tetrachloroethane	80.2	<0.5	99.9
1,3,5-Trimethylbenzene	81.2	<0.5	99.9
2-Chlorotoluene	81.2	<0.5	99.9
1,2,3-Trichloropropane	80.4	<0.5	99.9
Dichlorodifluoromethane	80.2	<0.5	99.9
Chloromethane	80.2	<0.5	99.9
Vinylchloride	80.3	<0.5	99.9
Bromomethane	80.1	<0.5	99.9
Chloroethane	80.4	<0.5	99.9
Trichlorofluoromethane	81.1	<0.5	99.9
1,1-Dichloroethene	82.2	<0.5	99.9
Methylene Chloride	80.1	<0.5	99.9
trans-1,2-Dichloroethene	85.1	<0.5	99.9

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<b>Volatile Organic Contaminants in µg/L</b>			
4-Chlorotoluene	80.2	<0.5	99.9
1,2,4-Trimethylbenzene	80.2	<0.5	99.9
sec-Butylbenzene	80.0	<0.5	99.9
4-Isopropyltoluene	80.1	<0.5	99.9
1,3-Dichlorobenzene	80.4	<0.5	99.9
1,4-Dichlorobenzene	80.2	<0.5	99.9
n-Butylbenzene	40.0	<0.5	99.9
1,2-Dichlorobenzene	80.1	<0.5	99.9
Hexachlorobutadiene	80.1	<0.5	99.9
1,2,4-Trichlorobenzene	44.0	<0.5	99.9
Naphthalene	160.5	<0.5	99.9
1,2,3-Trichlorobenzene	80.4	<0.5	99.9
<b>Heavy Metal Contaminants in µg/L pH = 6.5</b>			
Aluminum	210	<2	99.0
Antimony	6.2	<0.5	99.9
Arsenic	310	<2	99.9
Beryllium	50.1	<0.5	99.9
Bismuth	50.2	<2	99.9
Cadmium	32.1	<0.5	99.7
Chromium	312	<2	99.9
Copper	3,100	<2	99.9
Iron	3,200	<2	99.9
Lead	150	<2	99.9
Manganese	1,050	<2	99.9
Mercury	6.2	<0.5	99.9
Nickel	100	<2	99.9
Selenium	104	<2	99.9
Zinc	3,000	<2	99.9
<b>Heavy Metal Contaminants in µg/L pH = 8.5</b>			
Aluminum	212	<2	99.1
Antimony	6.1	<0.5	99.9
Arsenic	320	<2	99.9
Beryllium	50.2	<0.5	99.9
Bismuth	50.2	<2	99.9
Cadmium	31.5	<0.5	99.7
Chromium	310	<2	99.9
Copper	3,150	<2	99.9
Iron	3,250	<2	99.9
Lead	152	<2	99.9
Manganese	1,100	<2	99.9
Mercury	6.2	<0.5	99.9
Nickel	104	<2	99.9
Selenium	106	<2	99.9
Zinc	3,000	<2	99.9
<b>Pesticide Contaminants in µg/L</b>			
4,4'-DDD	50.1	<0.5	99.9
4,4'-DDE	50.2	<0.5	99.9
4,4'-DDT	50.0	<0.5	99.9
Alachlor	40.1	<0.5	99.9
Aldrin	50.1	<0.5	99.9
Alpha-BHC	50.3	<0.5	99.9
Ametryn	50.4	<0.5	99.9
Atraton	50.0	<0.5	99.9
Atrazine	9.0	<0.5	99.9
Beta-BHC	49.7	<0.5	99.9
Bromacil	50.2	<0.5	99.9
Carbofuran	80.2	<0.5	99.9
Chlordane	40.3	<0.5	99.9
Chlorneb	51.6	<0.5	99.9
Chlorobenzilate	50.1	<0.5	99.9
Chlorothalonil	50.2	<0.5	99.9
Chlorprophane	51.1	<0.5	99.9

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<b>Pesticide Contaminants in µg/L</b>			
Cyanizene	51.3	<0.5	99.9
Delta-BHC	50.2	<0.5	99.9
Dichlorvos	50.4	<0.5	99.9
Dieldrin	49.7	<0.5	99.9
Diphenamid	50.2	<0.5	99.9
Disulfoton	51.5	<0.5	99.9
Endosulfan Sulfate	51.2	<0.5	99.9
Endrin	6.1	<0.5	99.9
Endrin Aldehyde	51.2	<0.5	99.9
Endrin Ketone	52.1	<0.5	99.9
Endusulfan I	49.8	<0.5	99.9
Endusulfan II	50.2	<0.5	99.9
Ethoprop	50.2	<0.5	99.9
Fenamiphos	51.2	<0.5	99.9
Fluoridone	51.4	<0.5	99.9
Gamma-BHC (Lindane)	2.1	<0.5	99.9
Heptachlor	81.2	<0.5	99.9
Methoxychlor	120	<0.5	99.9
Molinate	50.2	<0.5	99.9
PCB's	10.0	<0.5	99.9
Prometron	50.2	<0.5	99.9
Simazine	12.0	<0.5	99.9
Toxaphene	15.0	<0.5	99.9
<b>Semivolatile Contaminants in µg/L</b>			
Acenaphthylene	50.0	<0.5	99.9
Anthracene	50.1	<0.5	99.9
Benz[a]anthracene	51.0	<0.5	99.9
Benzo[b]fluoranthene	50.2	<0.5	99.9
Benzo[k]fluoranthene	50.0	<0.5	99.9
Benzo[a]pyrene	50.2	<0.5	99.9
Benzo[g,h,i]perylene	50.3	<0.5	99.9
Butylbenzylphthalate	50.0	<0.5	99.9
Carboxin	50.5	<0.5	99.9
2-Chlorobiphenyl	50.2	<0.5	99.9
Chrysene	51.0	<0.5	99.9
Cycloate	51.0	<0.5	99.9
Dacthal (DCPA)	51.2	<0.5	99.9
Diazinon	52.0	<0.5	99.9
Dibenz[a,h]anthracene	50.4	<0.5	99.9
Di-n-Butylphthalate	49.9	<0.5	99.9
2,3-Dichlorobiphenyl	50.4	<0.5	99.9
Diethylphthalate	49.0	<0.5	99.9
Di(2-ethylhexyl)adipate	50.1	<0.5	99.9
Di(2-ethylhexyl)phthalate	52.0	<0.5	99.9
Dimethylphthalate	51.0	<0.5	99.9
EPTC	50.5	<0.5	99.9
Fluorene	49.8	<0.5	99.9
2,2', 3,3', 4,4', 6-Heptachlorobiphenyl	51.3	<0.5	99.9
Hexachlorobenzene	49.9	<0.5	99.9
2,2', 4,4', 5,6'-Hexachlorobiphenyl	50.5	<0.5	99.9
Hexachlorocyclohexane, alpha	51.0	<0.5	99.9
Hexachlorocyclohexane, beta	51.2	<0.5	99.9
Hexachlorocyclohexane, delta	51.2	<0.5	99.9
Hexachlorocyclopentadiene	50.2	<0.5	99.9
Hexazinone	50.5	<0.5	99.9
Indeno[1,2,3,c,d]pyrene	49.2	<0.5	99.9
Isophorone	51.4	<0.5	99.9
Merphos	51.2	<0.5	99.9
Methyl Paraoxon	51.1	<0.5	99.9
Norflurazon	51.3	<0.5	99.9
2,2', 3,3', 4,5', 6,6'-Octachlorobiphenyl	50.0	<0.5	99.9
Pebulate	50.2	<0.5	99.9

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<b>Semivolatiles Contaminants in µg/L</b>			
Pentachlorophenol	50.1	<0.5	99.9
Phenanthrene	50.5	<0.5	99.9
cis-Permethrin	50.1	<0.5	99.9
trans-Permethrin	49.5	<0.5	99.9
Prometon	51.2	<0.5	99.9
Prometryn	51.0	<0.5	99.9
Pronamide	50.0	<0.5	99.9
Propachlor	50.2	<0.5	99.9
Propazine	50.0	<0.5	99.9
Triademefon	49.8	<0.5	99.9
2,4,5-Trichlorobiphenyl	48.5	<0.5	99.9
Triademefon	48.8	<0.5	99.9
2,4,5-Trichlorobiphenyl	48.5	<0.5	99.9
Tricyclazole	48.8	<0.5	99.9
Trifluralin	51.1	<0.5	99.9
<b>Disinfectant and Inorganic Non-Metallic Contaminants in mg/L</b>			
Chloramines	3.1 mg/L	<0.1 mg/L	99.9
Free Chlorine	2.2 mg/L	<0.1 mg/L	99.9
Chloride	250 mg/L	<1 mg/L	99.6
Fluoride	8.2 mg/L	<0.1 mg/L	99.9
<b>Herbicide Contaminants in µg/L</b>			
Dalapon	150	<0.1	99.9
Dicamba	150	<0.1	99.9
Dinosep	22.2	<0.1	99.0
Dichlorporp	150	<0.1	99.9
2,4-D	220	<0.5	99.9
Pentachlorophenol	10.2	<0.5	99.9
Picoram	150	<0.5	99.9
2,4,5-T	152	<0.5	99.9
2,4,5-TP (Silvex)	150	<0.5	99.9
2,4-DB	152	<0.5	99.9
Bentazom	150	<0.5	99.9
DCPA	150	<0.5	99.9
Quinclorac	150	<0.5	99.9
Aciflurfen	151	<0.5	99.9
<b>Pharmaceutical Drugs Contaminants in µg/L</b>			
Acetaminofen	20.0	<0.1	99.5
Caffeine	20.2	<0.1	99.5
Carbamazepine	21.2	<0.1	99.5
Ciprofloxacin HCl	21.2	<0.1	99.5
Erythromycin USP	20.0	<0.1	99.5
Sulfamethoxazole	21.2	<0.1	99.5
Trimethoprim	20.3	<0.1	99.5
Bisphenol A	20.4	<0.1	99.5
Diclofenac Sodium	20.2	<0.1	99.5
4-para-Nonylphenol	20.2	<0.1	99.5
4-tert-Octylphenol	20.4	<0.1	99.5
Primidone	20.9	<0.1	99.5
Progesterone	20.4	<0.1	99.5
Gemfibrozil	20.4	<0.1	99.5
Ibuprofen	20.3	<0.1	99.5
Naproxen Sodium	20.4	<0.1	99.5
Triclosan	20.2	<0.1	99.5
<b>Petroleum Contaminants in µg/L</b>			
Gasoline	50.4	<0.5	99.9
Diesel	51.2	<0.5	99.9
Crude Oil	50.5	<0.5	99.9
Kerosene	50.4	<0.5	99.9
Mineral Spirits	50.4	<0.5	99.9
Refine Oil	50.2	<0.5	99.9
<b>Individual Organic Compound</b>			
Methylcyclohexane-methane	130 µg/L	<0.5 µg/L	99.9

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<b>Micro-Organisms</b>			
Total Coliform	Present	Absent	99.9
Fecal Coliform	Present	Absent	99.9
e. Coli	Present	Absent	99.9

**Jaime Young**

Jaime Young  
Lab Director