



**ENVIROTEK LABORATORIES, INC.**

33 Third Street, Bordentown, NJ 08505  
PHONE 856-583-0445 [www.enviroteklab.com](http://www.enviroteklab.com)  
EPA ID # NJ01298 NJ DEP ID # 03048 NY ELAP ID # 12044

## **TEST RESULTS**

**FOR**

**COSAN/USA**

**1230 N. US Hwy. 1, Unit 20, Ormond Beach, FL 32174**

**Pure Hydration Alkaline Antioxidant Water**

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

**Chemical Reduction Tests Results after 50 gallons.**



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## COSAN/USA CHEMICAL REDUCTION TEST REPORT

Report # 17-07  
 Report Date: 02/11/2017  
 Customer Name: Environmental Solutions 4-Life.

<b>Heavy Metal Contaminants Results in parts per billion (ppb) (µg/L)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
Arsenic	302	<1	99.9+
Cadmium	30.1	<1	99.9+
Chromium	317	<1	99.9+
Mercury	6.1	<1	99.9+
Lead	150	<1	99.9+
Antimony	6.0	<1	99.9+
Selenium	101	<1	99.9+
Aluminum	3,280	1.6	99.9+
Copper	3,146	3.3	99.8+
Iron	3,633	22.5	98.9+
Manganese	970	4.5	99.2+
<b>Inorganic Non-Metals Contaminants Results in ppb (µg/L)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
Chloramine	3,100	100	96.8+
Free Chlorine	2,100	100	95.2+
Nitrate	27,900	11,100	58.4+
Nitrite	2,900	400	86.2+
<b>Pesticide Contaminants Results in ppb (µg/L)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
4,4'-DDD	50.1	<0.1	99.9+
4,4'-DDE	50.1	<0.1	99.9+
4,4'-DDT	50.2	<0.1	99.9+
Alachlor	40.5	<0.1	99.9+
Aldrin	50.1	<0.1	99.9+
Alpha-BHC	50.8	<0.1	99.9+
Ametryn	51.0	<0.1	99.9+
Atraton	50.2	<0.1	99.9+
Atrazine	9.8	<0.1	99.9+
Beta-BHC	50.9	<0.1	99.9+
Bromacil	50.2	<0.1	99.9+
Carbofuran	80.1	<0.1	99.9+
Chlordane	40.1	<0.1	99.9+
Chlorneb	50.0	<0.1	99.9+
Chlorobenzilate	50.9	<0.1	99.9+
Chlorothalonil	50.1	<0.1	99.9+
Chlorprophane	50.2	<0.1	99.9+
Chlorpyrifos	50.3	<0.1	99.9+
Cyanizene	50.1	<0.1	99.9+
Delta-BHC	50.2	<0.1	99.9+
Dichlorvos	50.1	<0.1	99.9+
Dieldrin	50.4	<0.1	99.9+
Diphenamid	51.1	<0.1	99.9+
Disulfoton	50.2	<0.1	99.9+
Endosulfan Sulfate	49.0	<0.1	99.9+
Endrin	6.1	<0.1	99.9+
Endrin Aldehyde	50.5	<0.1	99.9+
Endrin Ketone	50.0	<0.1	99.9+
Endosulfan I	49.8	<0.1	99.9+
Endosulfan II	50.2	<0.1	99.9+
Ethoprop	50.2	<0.1	99.9+
Fenamiphos	50.2	<0.1	99.9+
Fenarimol	50.2	<0.1	99.9+
Fluoridone	50.4	<0.1	99.9+
Gamma-BHC (Lindane)	2.1	<0.1	99.9+
Heptachlor	80.0	<0.1	99.9+
Heptachlor Epoxide	4.0	<0.1	99.9+



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<b>Pesticide Contaminants Results in ppb (µg/L)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
Methoxychlor	122	<0.1	99.9+
Molinate	50.4	<0.1	99.9+
PCB's	10.4	<0.1	99.9+
Prometron	50.1	<0.1	99.9+
Simazine	12.1	<0.1	99.9+
Toxaphene	15.1	<0.1	99.9+
<b>Semivolatile Contaminants Results in ppb (µg/L)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
4,4'-DDD	50.1	<0.5	99.9+
Acenaphthylene	50.0	<0.5	99.9+
Anthracene	50.2	<0.5	99.9+
Benz[a]anthracene	40.2	<0.5	99.9+
Benzo[b]fluoranthene	50.1	<0.5	99.9+
Benzo[k]fluoranthene	50.8	<0.5	99.9+
Benzo[a]pyrene	51.0	<0.5	99.9+
Benzo[g,h,i]perylene	50.2	<0.5	99.9+
Butylbenzylphthalate	9.9	<0.5	99.9+
Carboxin	50.9	<0.5	99.9+
2-Chlorobiphenyl	50.2	<0.5	99.9+
Chrysene	80.1	<0.5	99.9+
Cycloate	40.1	<0.5	99.9+
Dacthal (DCPA)	50.0	<0.5	99.9+
Diazinon	50.2	<0.5	99.9+
Dibenz[a,h]anthracene	50.1	<0.5	99.9+
Di-n-Butylphthalate	50.2	<0.5	99.9+
2,3-Dichlorobiphenyl	50.3	<0.5	99.9+
Diethylphthalate	50.1	<0.5	99.9+
Di(2-ethylhexyl)adipate	50.2	<0.5	99.9+
Di(2-ethylhexyl)phthalate	50.1	<0.5	99.9+
Dimethylphthalate	50.4	<0.5	99.9+
EPTC	51.1	<0.5	99.9+
Fluorene	50.2	<0.5	99.9+
2,2', 3,3', 4,4', 6-Heptachlorobiphenyl	49.0	<0.5	99.9+
Hexachlorobenzene	6.1	<0.5	99.9+
2,2', 4,4', 5,6'-Hexachlorobiphenyl	50.1	<0.5	99.9+
Hexachlorocyclohexane, alpha	50.0	<0.5	99.9+
Hexachlorocyclohexane, beta	50.2	<0.5	99.9+
Hexachlorocyclohexane, delta	50.2	<0.5	99.9+
Hexachlorocyclopentadiene	50.2	<0.5	99.9+
Hexazinone	50.2	<0.5	99.9+
Indeno[1,2,3,c,d]pyrene	50.2	<0.5	99.9+
Fluoridone	50.4	<0.5	99.9+
Isophorone	2.1	<0.5	99.9+
Merphos	80.0	<0.5	99.9+
Methyl Paraoxon	4.0	<0.5	99.9+
Norflurazon	122	<0.5	99.9+
2,2', 3,3', 4,5', 6,6'-Octachlorobiphenyl	50.4	<0.5	99.9+
Pebulate	10.4	<0.5	99.9+
2,2', 3', 4,6'-Pentachlorobiphenyl	50.1	<0.5	99.9+
Pentachlorophenol	12.1	<0.5	99.9+
Phenanthrene	15.1	<0.5	99.9+
cis-Permethrin	50.2	<0.5	99.9+
trans-Permethrin	50.3	<0.5	99.9+
Prometon	50.4	<0.5	99.9+
Prometryn	49.1	<0.5	99.9+
Pronamide	50.5	<0.5	99.9+
Propachlor	51.2	<0.5	99.9+
Propazine	49.8	<0.5	99.9+
Triademefon	50.3	<0.5	99.9+
2,4,5-Trichlorobiphenyl	51.0	<0.5	99.9+
Tricyclazole	50.3	<0.5	99.9+
Trifluralin	50.1	<0.5	99.9+
Vernolate	50.0	<0.5	99.9+



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<b>Herbicide Contaminants Results in ppb (µg/L)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
Dalapon	151	<0.1	99.9+
Dicamba	150	<0.1	99.9+
Dinosep	20.1	<0.1	99.9+
Dichlorporp	150	<0.1	99.9+
2,4-D	202	<0.1	99.9+
Pentachlorophenol	10.1	<0.1	99.9+
Picoram	150	<0.1	99.9+
2,4,5-T	151	<0.1	99.9+
2,4,5-TP (Silvex)	151	<0.1	99.9+
2,4-DB	152	<0.1	99.9+
Bentazom	151	<0.1	99.9+
DCPA	150	<0.1	99.9+
Quinclorac	151	<0.1	99.9+
Aciflurfen	150	<0.1	99.9+
<b>Volatile Contaminants Results in ppb (µg/L)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
Dichlorodifluoromethane	80.0	<0.5	99.9+
Chloromethane	80.1	<0.5	99.9+
Vinylchloride	80.3	<0.5	99.9+
Bromomethane	80.1	<0.5	99.9+
Chloroethane	80.2	<0.5	99.9+
Trichlorofluoromethane	80.1	<0.5	99.9+
1,1-Dichloroethene	81.0	<0.5	99.9+
Methylene Chloride	80.2	<0.5	99.9+
trans-1,2-Dichloroethene	80.5	1.73	97.9+
MTBE	80.2	<0.5	99.9+
1,1-Dichloroethane	81.2	<0.5	99.9+
cis-1,2-Dichloroethene	170.1	<0.5	99.9+
2,2-Dichloropropane	80.1	<0.5	99.9+
Bromochloromethane	80.0	<0.5	99.9+
Chloroform	80.1	<0.5	99.9+
Carbon Tetrachloride	81.0	<0.5	99.9+
1,1,1-Trichloroethane	80.2	<0.5	99.9+
1,1-Dichloropropene	80.2	<0.5	99.9+
Benzene	80.4	<0.5	99.9+
1,2-Dichloroethane	80.2	2.01	97.5+
Trichloroethene	180.2	<0.5	99.9+
Dibromomethane	80.1	1.61	98.0+
1,2-Dichloropropane	80.4	<0.5	99.9+
Bromodichloromethane	80.2	<0.5	99.9+
cis-1,3-Dichloropropene	50.1	<0.5	99.9+
Toluene	80.1	<0.5	99.9+
trans-1,3-Dichloropropene	80.0	<0.5	99.9+
Tetrachloroethene	80.1	<0.5	99.9+
1,1,2-Trichloroethane	150.2	<0.5	99.9+
Chlorodibromomethane	80.4	<0.5	99.9+
1,3-Dichloropropane	80.5	<0.5	99.9+
Ethylbenzene	82.0	<0.5	99.9+
Chlorobenzene	79.8	<0.5	99.9+
1,1,1,2-Tetrachloroethane	80.8	<0.5	99.9+
m-Xylene	70.2	<0.5	99.9+
o-Xylene	70.1	<0.5	99.9+
Styrene	80.0	<0.5	99.9+
Bromoform	80.2	<0.5	99.9+
Isopropylbenzene	80.3	<0.5	99.9+
n-Propylbenzene	80.2	<0.5	99.9+
Bromobenzene	80.0	<0.5	99.9+
1,1,2,2-Tetrachloroethane	81.0	<0.5	99.9+
1,3,5-Trimethylbenzene	80.5	<0.5	99.9+
2-Chlorotoluene	80.2	<0.5	99.9+
1,2,3-Trichloropropane	80.3	2.16	97.3+
4-Chlorotoluene	80.2	<0.5	99.9+
tert-Butylbenzene	80.4	<0.5	99.9+



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<b>Volatile Contaminants Results in ppb (µg/L)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
1,2,4-Trimethylbenzene	80.5	<0.5	99.9+
sec-Butylbenzene	80.2	<0.5	99.9+
4-Isopropyltoluene	80.2	<0.5	99.9+
1,3-Dichlorobenzene	80.3	<0.5	99.9+
1,4-Dichlorobenzene	40.0	<0.5	99.9+
n-Butylbenzene	80.2	<0.5	99.9+
1,2-Dichlorobenzene	80.1	<0.5	99.9+
Hexachlorobutadiene	45.0	2.90	93.6+
1,2,4-Trichlorobenzene	160.2	<0.5	99.9+
Naphthalene	80.2	<0.5	99.9+
1,2,3-Trichlorobenzene	80.3	<0.5	99.9+
<b>Pharmaceutical Contaminants Results in ppb (µg/L)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
Acetaminofen	20.2	<0.1	99.9+
Caffeine	20.4	<0.1	99.9+
Carbamazepine	20.1	<0.1	99.9+
Ciprofloxacin HCl	20.2	<0.1	99.9+
Erythromycin USP	20.3	<0.1	99.9+
Sulfamethoxazole	20.2	<0.1	99.9+
Trimethoprim	20.0	<0.1	99.9+
Bisphenol A	20.1	<0.1	99.9+
Diclofenac Sodium	20.6	<0.1	99.9+
4-para-Nonylphenol	20.0	<0.1	99.9+
4-tert-Octylphenol	20.4	<0.1	99.9+
Primidone	20.8	<0.1	99.9+
Progesterone	20.2	<0.1	99.9+
Gemfibrozil	20.1	<0.1	99.9+
Ibuprofen	20.2	<0.1	99.9+
Naproxen Sodium	20.5	<0.1	99.9+
Triclosan	20.8	<0.1	99.9+
<b>Micro-organism Contaminants in Colonies Forming Units (CFU)</b>			
E. coli	10 <sup>8</sup>	<10	99.9+
P. aeruginosa	10 <sup>8</sup>	<10	99.9+
E. faecalis	10 <sup>8</sup>	<10	99.9+
P. klebsiella	10 <sup>8</sup>	<10	99.9+
<b>New Jersey Laboratory Tap Water Test Results in parts per billion (ppb)</b>			
<b>Parameter</b>	<b>Influent Water</b>	<b>Filtered Water</b>	<b>% Reduction</b>
Arsenic	<1.0	<1.0	99.9+
Barium	31.6	4.5	87.8+
Beryllium	<1.0	<1.0	99.9+
Cadmium	<1.0	<1.0	99.9+
Chromium	<1.0	<1.0	99.9+
Mercury	<1.0	<1.0	99.9+
Nickel	24.3	<1.0	99.9+
Lead	150	<1.0	99.9+
Antimony	6.0	<1.0	99.9+
Selenium	101	<1.0	99.9+
Thallium	<1.0	<1.0	99.9+
Aluminum	27.3	<1.0	99.9+
Copper	168	44.2	75.0+
Iron	158	16.5	89.6+
Manganese	5.5	<1.0	99.9+
Uranium	<1.0	<1.0	99.9+
Silver	<1.0	<1.0	99.9+
<b>Parameter</b>	<b>Influent Water total % amount in 2 liters</b>	<b>Filtered Water total % amount in 2 liters</b>	<b>Beneficial Mineralization based on 2 liters of water per day.</b>
Potassium	0.0014 %	0.029 %	Less than 1% Recommended Daily Allowance
Magnesium	0.0012 %	0.004 %	2% Recommended Daily Allowance
Sodium	0.0034 %	0.018 %	Less Than 1% Recommended Daily Allowance
Zinc	0.0004 %	0.0004 %	Less than 5% Recommended Daily Allowance



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### ***CERTIFICATION OF RESULTS:***

I certify in writing that all analyses, and reporting performed herein, comply with all requirements set forth in N.J.A.C. 7:9E and N.J.A.C. 7:18, and hereby certify that this laboratory is in compliance with all laboratory certification and quality control procedures and requirements as set forth in N.J.A.C. 7:18; the NYCRR Subpart 55-2 and the National Environmental Laboratory Accreditation Conference (NELAC) Institute Standards.

**Disclaimer:** The test results are only related to the filter cartridge tested.

**JaneA. Yong**

Jaime A. Young  
Lab Director