



ENVIROTEK LABORATORIES, INC.

1041 Glassboro Road Suite E-4, Williamstown NJ 08094

PHONE 856-583-0445 www.enviroteklab.com

EPA ID # NJ01298 NJ DEP ID # 03048 IAPMO ID #102

TEST RESULTS

FOR

KLT Filtration Ltd.

STUARY ROAD, KING'S LYNN

NORFOLK, GB, 43235

Gravity Filter CF163W

NSF Standard 53, and NSF Standard 42

NSF Std P-231

Chemical Reduction Tests Results



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Gravity Filter CF163W WATER TEST REPORT

Report # 19-69

Report Date: 05/15/2019

Customer Name: KLT Filtration, Ltd.

Contaminant Tested	Influent Water	500 liters	1000 liters	1500 liters	2000 liters	2500 liters	3000 Liters	% Reduction
Volatile Organic Compounds (µg/L)								
Vinylchloride	20.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.50%
Chloroethane	21.30	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	99.53%
Fluorotrichloromethane	15.84	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.37%
1, 1-Dichloroethene	78.87	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.87%
Methylene Chloride	29.76	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	99.33%
trans-1, 2-Dichloroethene	11.95	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.16%
MTBE	61.38	21.3	42.9	13.4	67.3	42.4	18.7	30.11%
1, 1-Dichloroethane	10.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.00%
cis-1, 2-Dichloroethane	10.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.01%
2, 2-Dichloropropane	54.42	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.82%
Bromochloromethane	56.29	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.82%
Chloroform	410.07	65.6	142.9	39.1	97.6	78.2	49.1	65.15%
1, 1, 1-Trichloroethane	65.95	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.85%
1, 1-Dichloropropane	24.78	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.60%
Benzene	15.00	10.6	<0.1	<0.1	<0.1	<0.1	<0.1	29.33%
1, 2-Dichloropropane	17.04	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.41%
Bromodichloromethane	28.52	2.6	1.4	1.8	2.1	4.7	3.9	83.52%
cis-1, 3-Dichloropropene	96.65	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.90%
Toluene	85.73	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	99.30%
trans-1, 3-Dichloropropene	96.65	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.90%
Tetrachloroethene	52.79	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.81%
1, 1, 2-Trichloroethane	69.43	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.86%
Chlorodibromomethane	88.98	2.2	1.5	2.1	2.8	5.2	<0.1	94.16%
1, 3-Dichloropropane	10.94	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.09%
Chlorobenzene	84.41	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.88%
Ethylbenzene	38.96	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.74%
m and p-Xylene	47.35	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.79%
o-Xylene	42.99	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.77%
Styrene	32.37	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.69%
Bromoform	45.84	0.6	<0.1	<0.1	1.1	2.5	2.5	94.55%
Isopropylbenzene	16.08	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.38%
Bromobenzene	68.57	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.85%
n-propylbenzene	12.80	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.22%
1, 1, 2, 2-Tetrachloroethane	78.14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.87%
2-Chlorotoluene	20.31	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.51%
1, 3, 5-Trimethylbenzene	25.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.60%
4-Chlorotoluene	20.31	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.51%
Tert-Butylbenzene	26.23	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.62%
1, 2, 4-Trimethylbenzene	25.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.60%
sec-Butylbenzene	13.25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.25%
1, 3-Dichlorobenzene	47.89	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.79%
1, 4-Dichlorobenzene	24.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.59%
n-Butylbenzene	11.36	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.12%
1, 2-Dichlorobenzene	11.36	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.12%
Hexachlorobutadiene	43.32	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.77%
1, 2, 4-Trichlorobenzene	56.40	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.82%
Naphthalene	14.67	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.32%
1, 2, 3-Trichlorobenzene	90.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.89%
Metals (µg/L)								
Arsenic (Total)	48.2	2.8	34.3	23.2	5.6	3.2	4.8	28.84%
Barium	10,091	491	542	563	591	299	392	94.14%



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Metals (µg/L)								
Cadmium	29	9.3	18.3	16.9	1.7	<1	1.6	0.9413793
Chromium	298	<1	6	46.6	27.4	6	17.7	84.36%
Copper	2810	2.3	23.9	72.9	59.2	28.7	64.3	97.89%
Iron	11865	230	2302	62	1667.2	173.1	207.2	80.60%
Lead	154	<1	<1	<1	<1	<1	<1	99.35%
Manganese	1335	18.4	255	184	305.6	182.8	167.4	77.08%
Mercury	6	2.8	2.6	2.5	1.5	1	1.1	53.33%
Selenium	167	66.6	47	51	96.3	4.3	114.6	31.38%
Beryllium	6	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	91.67%
Nickel	100	<1	1.8	2.2	1.5	1	2.7	97.80%
Antimony	100	<1	<1	<1	1	<1	<1	99.00%
Thallium	6	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	91.67%
Aluminum	100	1.9	<1	<1	2	1.8	2.2	98.00%
Boron	100	3.2	10.9	9	15.4	13.3	16.1	84.60%
Silver	100	<1	<1	<1	6.6	3.1	2.6	93.40%
Zinc	100	1.1	7	14.3	7.7	2.5	10.9	85.70%
Pesticides & Semivolatiles (µg/L)								
Isophrone	52.07	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.81%
Naphthalene	19.46	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.49%
Hexachlorocyclopentadiene	35.33	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.72%
EPTC	19.46	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.49%
Vernolate	19.46	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.49%
Dimethylphthalate	82.06	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.88%
Pebulate	19.46	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.49%
2,6-Dinitrotoluene	76.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.87%
BHT	18.64	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.46%
2,4-Dinitrotoluene	96.66	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.90%
Molinate	42.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.76%
Diethylphthalate	90.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.89%
Fluorene	33.95	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.71%
Propachlor	53.47	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.81%
Cycloate	123.76	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.92%
Atraton	48.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.79%
Delta-BHC	104.83	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.90%
Hexachlorobenzene	8.70	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>98.85%
Propazine	103.22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.90%
Alpha-BHC	225.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.96%
Beta-BHC	100.93	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.90%
Gamma-BHC (Lindane)	98.83	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.90%
Pentachlorophenol	37.87	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.74%
Phenanthrene	52.79	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.81%
Anthracene	46.00	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.78%
Propyzimide	91.42	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.89%
Terbacil	52.64	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.81%
Metribuzin	14.76	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.32%
Vinclozalin	160.25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.94%
Simetryn	1.42	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>92.96%
Ametryn	66.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.85%
Alachlor	67.69	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.85%
Prometryn	39.73	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.75%
Heptachlor	58.28	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.83%
Di-n-Butylphthalate	50.97	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.80%
Bromacil	67.24	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.85%
Cyanazine	50.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.80%
Aldrin	40.95	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.76%
Tridemefon	63.37	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.84%
Diphenamid	39.53	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.75%
Heptachlor Epoxide	57.43	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.83%
Fluoranthene	53.02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.81%



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Pesticides & Semivolatiles (µg/L)								
Trans-Chlordane	79.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.87%
Butachlor	65.44	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.85%
Endosulfan I	58.87	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.83%
Cis-Chlordane	72.79	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.86%
Pyrene	51.82	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.81%
Dieldrin	277.74	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.96%
Endrin	84.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.88%
Endosulfan II	33.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.70%
P,p'-DDD	3.40	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>97.06%
Oxyfluorfen	67.34	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.85%
Endrin Aldehyde	84.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.88%
Nitrofen	59.82	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.83%
Butylbenzylphthalate	50.90	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.80%
Norflurazon	110.53	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.91%
P,p'-DDT	91.35	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.89%
Endosulfan Sulfate	57.88	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.83%
Bis Adipate	20.21	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.51%
Benzo(a) anthracene	73.54	<0.1	<0.1	<0.1	5.53	<0.1	<0.1	>99.86%
Endrin Ketone	84.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.88%
Methoxychlor	54.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.82%
Chrysene	61.55	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.84%
Bis(2-ethylhexyl) phthalate	49.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.80%
Fenarimol	89.06	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.89%
Di-n-octyl phthalate	49.18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.80%
Benzo(b) fluoranthene	62.25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.84%
Benzo(k) fluoranthene	50.97	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.80%
Benzo(a) pyrene	62.25	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	>99.84%
Herbicides (µg/L)								
Dalapon	50.30	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.98%
3,5-Dichlorobenzoic	51.23	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	99.94%
Dicamba	50.30	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	99.90%
Diclorprop	51.45	<0.01	<0.01	0.04	<0.01	<0.01	0.01	99.92%
2,4-D	50.20	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	99.88%
Pentachlorophenol	50.09	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	99.84%
Chloramben	49.58	<0.01	<0.01	0.07	0.01	<0.01	0.01	99.86%
2,4,5-TP	51.52	<0.01	<0.01	0.03	<0.01	0.30	0.15	99.42%
2,4,5-T	46.34	<0.01	<0.01	0.04	0.01	0.01	0.18	99.61%
2,4-DB	51.93	<0.01	<0.01	<0.01	<0.01	0.67	0.33	98.71%
Dinosep	50.64	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	99.94%
Bentazon	50.18	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	99.82%
Picloram	49.70	<0.01	<0.01	<0.01	<0.01	0.01	0.01	99.98%
DCPA	46.19	<0.01	<0.01	0.01	<0.01	0.05	0.02	99.89%
Quinclorac	52.15	<0.01	<0.01	<0.01	<0.01	0.04	0.02	99.92%
Acifluoren	51.85	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.98%
Inorganic Non-Metals (mg/L)								
Chlorine	2.0	0.1	0.3	0.3	0.2	0.2	0.4	80.00%
Chloramine	3.2	<0.1	0.3	0.3	0.2	0.2	0.4	87.50%
Sulfate	820	400	670	760	780	800	790	2.44%
Fluoride	8.8	0.9	5.6	7.1	8.4	8.2	7.3	4.55%
Nitrate	29.7	10.1	12.2	14.1	20.9	17.7	12.0	29.63%
Nitrite	2.9	0.76	0.82	1.95	2.11	2.3	1.8	27.24%
Micro-Organisms								
Microspheres	201,600	870		340	310		540	99.57%
Bacteria	1,864,000	720	90	342,000	324,000	142,200	361,000	80.63%
Virus	642,000	800	12000	36000	48000	57000	61000	90.50%
Pharmaceuticals (ng/L)								
Bisphenol A	2296	<0.01	<0.01	37.9	<0.01	3.4	<0.01	98.35%
Phenytoin	171	11.2	<0.01	0.9	<0.01	<0.01	<0.01	99.47%
Ibuprofen	418	<0.01	<0.01	9.6	5.8	<0.01	3.2	97.70%
Trimethoprim	133	<0.01	<0.01	<0.01	2.3	<0.01	<0.01	98.27%



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Pharmaceuticals (ng/L)								
Naproxen	182	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.99%
Nonylphenol	1497	<0.01	<0.01	11.8	28.1	<0.01	28.3	98.11%
Acetaminophen	2.73	<0.01	<0.01	0.5	<0.01	<0.01	<0.01	81.68%
Ciprofloxacin	10.41	<0.01	<0.01	4.7	5.9	<0.01	<0.01	43.32%
Sulfamethoxazole	1.86	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.46%
17-beta-Estradiol	1.93	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.48%
Caffeine	8.77	<0.01	<0.01	4.0	<0.01	<0.01	2.7	54.39%
Fluoxetine	1.83	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.45%
Gemfibrozil	2.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.51%
Triclosan	1.18	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.15%
Estrone	136	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.99%
Diclofenac Sodium	2.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.51%
Primidone	1.87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.47%
Carbamazepine	1842	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	100.00%
Testosterone	153	<0.01	10.9	<0.01	<0.01	<0.01	<0.01	92.88%
Progesterone	2.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.53%
4-tert-Octylphenol	2.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.52%
17-alpha-Ethinylestradiol	2.22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.55%
4-para-Nonylphenol	2.36	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	>99.58%
Atenolol	179	<0.01	<0.01	1.1	<0.01	<0.01	<0.01	99.39%
DEET	1541	<0.01	<0.01	<0.01	<0.01	16.0	<0.01	98.96%
Metolachlor	1187	<0.01	1.6	<0.01	<0.01	<0.01	<0.01	99.87%
Meprobamate	449	<0.01	8.1	<0.01	5.4	2.2	12.6	97.19%
Linuron	156	<0.01	<0.01	4.9	<0.01	<0.01	4.8	96.86%
TCEP	4899	<0.01	<0.01	<0.01	47.9	<0.01	<0.01	>99.02%
TCPP	5126	<0.01	82.9	<0.01	<0.01	<0.01	<0.01	98.38%

Disclaimer: The test results are only related to the filter cartridges tested, in the condition received at the laboratory.

Jaime Young

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