



QFT LABORATORY, LLC

41 D Germay Drive, Wilmington DE 19804
 PHONE 856-583-0445 www.enviroteklab.com
 EPA ID # DE00946 NJDEP ID # DE009 IAPMO ID #102

NAQWA SWR-SPRING GRAVITY FILTER CHEMICAL REDUCTION TEST REPORT

Report # 18-595
 Report Date: 11/24/2018
 Customer Name: TREN, LLC.

Contaminant Tested	Influent Water	Start	5 gallons	10 gallons	15 gallons	20 gallons	% Reduction
Inorganic Non-Metals (mg/L)							
Chlorine (1.8 to 2.2 ppm)	2.10	0.30	0.31	0.33	0.32	0.33	84.3%
Nitrate (25 to 29 ppm)	26.9	6.8	5.4	5.0	7.2	6.5	75.8%
Chloride (720 to 880 ppm)	830	810	820	820	810	830	0.0%
Fluoride (7.2 to 8.8 ppm)	8.7	4.6	5.0	7.7	8.2	8.3	4.6%
Sulfate (720 to 880 ppm)	792	720	710	768	767	772	2.5%
Chloramine (2.7 to 3.3 ppm)	3.10	1.50	1.40	1.70	1.75	2.30	25.8%
Metals (µg/L)							
Aluminum	217	142	181	208	210	212	2.3%
Arsenic	47.3	1.6	1.6	5.2	15.1	16.2	65.8%
Barium	133	121	121	114	121	126	5.3%
Cadmium	27.3	9.1	13.0	12.2	12.7	13.1	52.0%
Chromium (Total)	301	27.9	34.4	165	212	301	0.0%
Copper	3000	1720	2380	2844	2854	2968	1.1%
Iron	2985	87.8	89.0	2657	2590	2935	1.7%
Lead	158	20.8	17.2	19.9	99.2	152	3.8%
Manganese	1103	760	891	976	1121	1176	-6.6%
Mercury	5.9	0.6	0.5	0.6	0.5	0.6	89.8%
Nickel	113	72	105	101	105	105	7.1%
Selenium	104	16.5	19.3	40	116	122	-17.3%
Zinc	162	60.4	61.1	50.3	53.4	68.8	57.5%
Pesticides (µg/L)							
Alachlor	504	5.3	6.8	8.5	9.6	10.5	97.9%
Hexachlorobenzene	50.1	0.5	0.7	0.9	1.2	2.3	95.4%
Hexachlorocyclopentadiene	52.2	0.3	0.4	0.6	1.5	2.5	95.2%
Delta-BHC	50.1	0.6	0.7	1.3	2.1	3.5	93.0%
Propachlor	50.8	0.3	0.4	0.6	0.9	1.1	97.8%
Molinate	50.1	0.4	0.5	0.6	0.8	1.2	97.6%
Alpha-BHC	50.5	0.6	0.6	0.8	0.9	1.5	97.0%
Beta-BHC	50.1	0.7	0.8	1.1	1.6	2.1	95.8%
Gamma-BHC (Lindane)	50.2	0.5	0.5	0.9	1.1	2.3	95.4%
Atrazine	101	0.8	0.9	1.2	1.9	2.4	97.6%
Simazine	50.1	0.3	0.3	0.6	0.8	1.1	97.8%
Metribuzin	50.5	0.3	0.3	0.4	0.6	0.9	98.2%
Heptachlor	51.4	0.7	0.8	0.9	1.1	1.9	96.3%
Metolachlor	50.2	0.6	0.6	0.9	1.3	2.5	95.0%
Butylate	40.1	5.1	6.2	7.8	8.5	10.3	74.3%
2,4-D	50.1	0.3	0.4	0.8	1.3	2.6	94.8%
Aldrin	50.5	0.5	0.5	0.9	1.1	1.8	96.4%
Heptachlor Epoxide	50.2	0.6	0.8	1.1	2.1	2.8	94.4%
Trans-Chlordane (Nonachlor)	50.1	0.8	1.0	1.5	2.1	3.5	93.0%
Butachlor	50.2	0.3	0.3	0.8	0.9	1.1	97.8%
Endosulfan I	41.0	0.3	0.3	0.5	0.6	0.8	98.0%
Cis-Chlordane	50.4	0.9	1.1	1.8	2.4	3.5	93.1%
p,p'-DDE	54.0	0.4	0.4	0.6	0.7	1.1	98.0%
Dieldrin	48.2	0.6	0.8	1.2	2.4	3.5	92.7%
Endrin	60.8	0.3	0.3	0.9	0.8	1.1	98.2%
Endosulfan II	40.2	0.3	0.5	0.6	1.1	1.5	96.3%
p,p'-DDD	44.6	0.4	0.6	0.9	1.2	1.7	96.2%
Endrin Aldehyde	45.2	0.3	0.5	0.8	0.9	1.3	97.1%



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Pesticides (µg/L)							
p,p'-DDT	60.3	0.3	0.5	0.9	1.2	2.1	96.5%
Endosulfan Sulfate	51.8	0.5	0.6	0.8	1.1	2.7	94.8%
Endrin Ketone	50.3	0.6	0.9	1.3	2.7	3.5	93.0%
Methoxychlor	50.1	0.5	0.5	0.9	1.5	1.9	96.2%
Volatile Organic Compounds (µg/L)							
Chloromethane	50.2	<0.5	<0.5	<0.5	<0.5	0.5	99.0%
Vinylchloride	38.4	<0.5	<0.5	<0.5	<0.5	0.5	98.7%
Bromomethane	21.3	<0.5	<0.5	<0.5	<0.5	0.5	97.7%
Chloroethane	48.1	<0.5	<0.5	<0.5	<0.5	<0.5	99.0%
Fluorotrichloromethane	68.1	<0.5	<0.5	<0.5	<0.5	<0.5	99.3%
1, 1-Dichloroethene	78.1	<0.5	<0.5	<0.5	<0.5	<0.5	99.4%
Methylene Chloride	68.1	<0.5	<0.5	<0.5	<0.5	0.5	99.3%
trans-1, 2-Dichloroethene	70.2	<0.5	<0.5	<0.5	<0.5	<0.5	99.3%
MTBE	68.6	<0.5	<0.5	<0.5	<0.5	0.5	99.3%
1, 1-Dichloroethane	98.2	<0.5	<0.5	<0.5	<0.5	<0.5	99.5%
cis-1, 2-Dichloroethene	75.2	<0.5	<0.5	<0.5	<0.5	<0.5	99.3%
2, 2-Dichloropropane	8.0	<0.5	<0.5	<0.5	<0.5	<0.5	93.8%
Bromochloromethane	89.8	<0.5	<0.5	<0.5	<0.5	<0.5	99.4%
Carbon Tetrachloride	82.0	<0.5	<0.5	<0.5	<0.5	<0.5	99.4%
1, 1, 1-Trichloroethane	84.8	<0.5	<0.5	<0.5	<0.5	<0.5	99.4%
1, 1-Dichloropropane	8.67	<0.5	<0.5	<0.5	<0.5	<0.5	94.2%
Benzene	78.2	<0.5	<0.5	<0.5	<0.5	0.5	99.4%
1, 2-Dichloroethane	88.2	<0.5	<0.5	<0.5	<0.5	<0.5	99.4%
Trichloroethene	180	<0.5	<0.5	<0.5	<0.5	<0.5	99.7%
Dibromomethane	18.1	<0.5	<0.5	<0.5	<0.5	<0.5	97.2%
1, 2-Dichloropropane	80.1	<0.5	<0.5	<0.5	<0.5	<0.5	99.4%
cis-1, 3-Dichloropropene	81.5	<0.5	<0.5	<0.5	<0.5	<0.5	99.4%
Toluene	78.4	<0.5	<0.5	<0.5	<0.5	0.6	99.2%
trans-1, 3-Dichloropropene	80.0	<0.5	<0.5	<0.5	<0.5	<0.5	99.4%
Tetrachloroethene	85.6	<0.5	<0.5	<0.5	<0.5	<0.5	99.4%
1, 1, 2-Trichloroethane	110.1	<0.5	<0.5	<0.5	<0.5	<0.5	99.5%
1, 3-Dichloropropane	92.2	<0.5	<0.5	<0.5	<0.5	<0.5	99.5%
Ethylene Dibromide (EDB)	44.8	<0.5	<0.5	<0.5	<0.5	0.5	98.9%
Ethylbenzene	88.2	<0.5	<0.5	<0.5	<0.5	0.5	99.4%
Chlorobenzene	77.2	<0.5	<0.5	<0.5	<0.5	0.6	99.2%
m and p-Xylene	80.2	<0.5	<0.5	<0.5	<0.5	0.8	99.0%
o-Xylene	40.2	<0.5	<0.5	<0.5	<0.5	0.5	98.8%
Styrene	150	<0.5	<0.5	<0.5	<0.5	0.9	99.4%
Isopropylbenzene	8.7	<0.5	<0.5	<0.5	<0.5	<0.5	94.3%
n-propylbenzene	9.3	<0.5	<0.5	<0.5	<0.5	<0.5	94.6%
Bromobenzene	12.2	<0.5	<0.5	<0.5	<0.5	<0.5	95.9%
1, 1, 2, 2-Tetrachloroethane	80.4	<0.5	<0.5	<0.5	<0.5	0.5	99.4%
1, 3, 5-Trimethylbenzene	9.8	<0.5	<0.5	<0.5	<0.5	0.6	93.9%
2-Chlorotoluene	10.1	<0.5	<0.5	<0.5	<0.5	0.6	94.1%
1, 2, 3-Trichloropropane	20.3	<0.5	<0.5	<0.5	<0.5	0.7	96.6%
4-Chlorotoluene	10.9	<0.5	<0.5	<0.5	<0.5	0.8	92.7%
Tert-Butylbenzene	10.1	<0.5	<0.5	<0.5	<0.5	0.5	95.0%
1, 2, 4-Trimethylbenzene	9.9	<0.5	<0.5	<0.5	<0.5	0.6	93.9%
sec-Butylbenzene	7.9	<0.5	<0.5	<0.5	<0.5	0.6	92.4%
4-Isopropyltoluene	10.3	<0.5	<0.5	<0.5	<0.5	0.7	93.2%
1, 3-Dichlorobenzene	40.2	<0.5	<0.5	<0.5	<0.5	0.8	98.0%
1, 4-Dichlorobenzene	40.0	<0.5	<0.5	<0.5	<0.5	0.9	97.8%
n-Butylbenzene	10.2	<0.5	<0.5	<0.5	<0.5	0.8	92.2%
1, 2-Dichlorobenzene	80.5	<0.5	<0.5	<0.5	<0.5	0.9	98.9%
Dibromo-3-Chloropropane	50.1	<0.5	<0.5	<0.5	<0.5	0.7	98.6%
Hexachlorobutadiene	44.2	<0.5	<0.5	<0.5	<0.5	0.8	98.2%
1, 2, 4-Trichlorobenzene	14.6	<0.5	<0.5	<0.5	<0.5	0.8	94.5%
1, 2, 3-Trichlorobenzene	14.2	<0.5	<0.5	<0.5	<0.5	0.9	93.7%
Bromoacetonitrile	20.5	<0.5	<0.5	<0.5	<0.5	0.7	96.6%
Dibromoacetonitrile	24.6	<0.5	<0.5	<0.5	<0.5	0.6	97.6%



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Volatile Organic Compounds (VOC) (µg/L)							
Dichloroacetonitrile	9.9	<0.5	<0.5	<0.5	<0.5	0.5	94.9%
Trichloroacetonitrile	15.0	<0.5	<0.5	<0.5	<0.5	0.7	95.3%
Naphthalene	48.3	0.4	0.5	1.1	1.3	1.7	96.5%
1,1-Dichloro-2-propanone	7.5	<0.5	<0.5	<0.5	<0.5	0.8	89.3%
1,1,1-Trichloro-2-propanone	14.5	<0.5	<0.5	<0.5	<0.5	0.5	96.6%
Total Trihalomethanes (THMs) (µg/L)							
Chloroform	126	9.8	10.4	15.4	92.5	125	0.8%
Bromodichloromethane	84.2	2.4	12.4	12.7	22.5	35.2	58.2%
Chlorodibromomethane	82.6	2.8	12.9	23.1	35.2	45.6	44.8%
Bromoform	85.2	1.9	20.0	22.0	37.6	53.2	37.6%
Total Trihalomethanes	378	16.9	55.7	73.2	187.8	259	31.5%
Micro Organisms (µg/L)							
E. coli (Colony Forming Units)	49,950,000	0	0	0	0	0	>99.999%
MS2 Virus (Plaque Forming Units)	441,400,000	14,800	3,200	1,400	80	40	99.997%

CERTIFICATION OF RESULTS:

I certify in writing that all analyses, and reporting performed herein, comply with all requirements set forth in NSF/ANSI Std 42, 53, and hereby certify that this laboratory is in compliance with all laboratory certification and quality control procedures and requirements as set forth in the NYCRR Subpart 55-2, the National Environmental Laboratory Accreditation Conference (NELAC) Institute Standards, the Water Quality Association (WQA), and IAPMO, ISO 17025.

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

Jaime Young

Jaime Young
 Lab Director