User-friendly Summary of Test Results for the V Water Filter

All test results are certified and performed in NEPAL accredited labs to proper EPA Standards.

Abstract: All test performed were done in manner to replicate the flow rates and contact times of the V Water Ionizer with a flow rate of 3 liters per minute. No ionization, or form of electrolysis was used in testing to avoid the effect of ionic separation.

All control water samples, influent samples, were created using DI water then spiked with contaminant samples from ERA Labs (http://www.eraqc.com) and scanned separately for accurate starting values without passing through V Water filters. Start values were prepared to be as close as possible to EPA MCL levels where applicable. In the case of contaminants that are added during treatment such as fluoride or the chlorine based disinfectant group, start values were prepared to be at least the level that typically found in municipally treated water.

All filters were flushed prior to testing using 10 gallons of DI water, then cleared of excess water by air. Prior to collection approximately 2 liters of control water sample were passed through and the effluent samples were collected at this time.

Testing for the VOC, disinfectant and heavy metals samples groups was performed by Silver State Analytical Laboratories and completed on 12/10/12 and 2/19/16 respectively. Testing for a sample group of PPCP (pharmaceuticals / personal care products / herbicides and pesticides) was performed by MHW on 8/3/12. Glyphosate testing was performed by eurofins / Eaton Analytical on 4/14/16. Original lab reports available upon request.

Test Result Definitions:

Influent = The levels found in the control sample prior to passing through the V Water Filter.
Effluent = The levels found in the collected sample after passing through the V Water Filter.
mg/L = Milligrams per Liter, or Parts Per Million (PPM)
ug/L = Nanograms per Liter, or Parts Per Billion (PPB)
ND = Nondetectable levels were found in testing. ND is an indicator if the lowest level of accurate reporting based on the equipment's capabilities and the type of tests performed.

User-friendly Summary of V Water Filter Results

Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	Vitae Global Filter Results (Efluent)	Reporting Limits
Disinfectants and TDS Sample Group				
Total Residual Chlorine	1	**mg/L**	**ND**	0.25
Free Chlorine	0.33	**mg/L**	**ND**	0.25
TDS	105	**mg/L**	100	10
Heavy Metal Sample Group				
Aluminum	0.065	**mg/L**	ND	0.05
Antimony	0.038	**mg/L**	**ND**	0.001
Arsenic	0.043	**mg/L**	**ND**	0.001
Barium	1.6	**mg/L**	0.009	0.001
Beryllium	0.003	**mg/L**	**ND**	0.001
Boron	1.7	**mg/L**	ND	0.01
Cadmium	0.017	**mg/L**	**ND**	0.001
Chromium	0.059	**mg/L**	**ND**	0.001
Copper	0.22	**mg/L**	**ND**	0.001
Iron	1.2	**mg/L**	ND	0.01
Lead	0.061	**mg/L**	**ND**	0.001
Manganese	0.31	**mg/L**	**0.003**	0.01
Molybdenum	0.038	**mg/L**	**ND**	0.001
Mercury	0.0008	**mg/L**	**ND**	0.002
Nickle	0.054	**mg/L**	**ND**	0.001

***ND=Non-Detectable levels were found, *mg/L=Milligrams Per Liter, or Parts Per Million, *ug/L=Nanograms Per Liter, or Parts Per Billion**

User-friendly Summary of V Water Filter Results

Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	Vitae Global Filter Results(Efluent)	Reporting Limits
Selenium	0.082	**mg/L**	**ND**	0.001
Silver	0.28	**mg/L**	**ND**	0.001
Thalium	0.009	**mg/L**	**ND**	0.001
Vanadium	0.31	**mg/L**	**ND**	0.001
Zinc	0.23	**mg/L**	**ND**	0.001
VOC Sample Group				
1,1,1,2-Tetrachloethane	201	**ug/L**	**ND**	5
1,1,1-Trichlorethane	156	**ug/L**	**ND**	5
1,1,2,2-Tetrachloroethane	616	**ug/L**	**ND**	5
1,1,2-Trichloroethane	60.2	**ug/L**	**ND**	5
1,1-Dichlorethane	397	**ug/L**	5.43	5
1,1-Dichloroethene	98.5	**ug/L**	**ND**	5
1,1-dichloropropene	246	**ug/L**	**ND**	5
1,2,3-Trichloropropane	528	**ug/L**	**ND**	5
1,2,4-Trichlorobenzene	101	**ug/L**	**ND**	5
1,2,4-Trimethylbenzene	192	**ug/L**	**ND**	5
1,2-Dichlorobenzene	228	**ug/L**	**ND**	5
1,2-Dichloroethane	108	**ug/L**	**ND**	5
1,2-Dichloropropane	186	**ug/L**	**ND**	5
1,3,5-Trimethylbenzene	387	**ug/L**	**ND**	5
1,3-Dichloropropane	275	**ug/L**	**ND**	5

***ND=Non-Detectable levels were found, *mg/L=Milligrams Per Liter, or Parts Per Million, *ug/L=Nanograms Per Liter, or Parts Per Billion**

User-friendly Summary of V Water Filter Results

Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	Vitae Global Filter Results(Efluent)	Reporting Limits
1,4-Dichlorobenzene	203	**ug/L**	**ND**	5
2,2-Dichloropropane	179	**ug/L**	**ND**	5
2-Chlorotoluene	429	**ug/L**	**ND**	5
4-Chlorotoluene	94.5	**ug/L**	**ND**	5
Benzene	172	**ug/L**	**ND**	5
Bromobenzene	59.6	**ug/L**	**ND**	5
Carbon Tetrachloride	153	**ug/L**	**ND**	5
Chlrobenzene	231	**ug/L**	**ND**	5
cis-1,2-dichloroethane	366	**ug/L**	**ND**	5
cis-1,3-Dichloropropene	145	**ug/L**	**ND**	5
Dibromomethane	156	**ug/L**	**ND**	5
Dichlorodifluoromethane	160	**ug/L**	**ND**	5
Ethylbenzene	262	**ug/L**	**ND**	5
Hexachlorobutadine	80.3	**ug/L**	**ND**	5
Isopropylbenzene	328	**ug/L**	**ND**	5
m+p-Xylene	72.5	**ug/L**	**ND**	5
Methylene chloride	266	**ug/L**	**ND**	5
methyl-t-butyl ether (MTBE)	372	**ug/L**	5.36	5
Napthalene	124	**ug/L**	**ND**	5
n-Propylbenzene	247	**ug/L**	**ND**	5

***ND=Non-Detectable levels were found, *mg/L=Milligrams Per Liter, or Parts Per Million, *ug/L=Nanograms Per Liter, or Parts Per Billion**

User-friendly Summary of V Water Filter Results

Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	Vitae Global Filter Results(Efluent)	Reporting Limits
o-Xylene	59.8	**ug/L**	**ND**	5
p-isopropyltoluene	124	**ug/L**	**ND**	5
Styrene	85.4	**ug/L**	**ND**	5
tert-Butylbenzene	318	**ug/L**	**ND**	5
Tetrachloroethane	168	**ug/L**	**ND**	5
Toluene	265	**ug/L**	**ND**	5
trans-1,2-Diclhloroethane	186	**ug/L**	**ND**	5
trans-1,3-Dichloropropene	205	**ug/L**	**ND**	5
Trichloroethane	259	**ug/L**	**ND**	5
Vinyl Chloride	136	**ug/L**	**ND**	5
Hormone Sample Group				
Contraceptive Hormone	EE2 (17 Alpha-ethynylestradiol)	500	**ND**	5
Estrogenic Hormone	E2 (17 Beta-Estradiol)	380	**ND**	5
Estrogenic Hormone	Estrone	400	**ND**	5
Steroid Hormone	Andorostenedione	370	**ND**	5
Steroid Hormone	Norethisterone	600	**ND**	5
Steroid Hormone	Progesterone	550	**ND**	5
Steroid Hormone	Testosterone	410	**ND**	10

***ND=Non-Detectable levels were found, *mg/L=Milligrams Per Liter, or Parts Per Million, *ug/L=Nanograms Per Liter, or Parts Per Billion**

User-friendly Summary of V Water Filter Results

Compounds Action	Compound Name	Influent Compound Level (ng/L)	Vitae Global Filter Results	Reporting Limit (ng/L)
Over the Counter Pharmaceutical Sample Group				
Analgesic	Acetaminophen	640	**ND**	5
Analgesic	Phenazone	530	**ND**	5
Analgesic-NSAID	Ibuprofen	1800	**ND**	10
Prescription Drug Sample Group				
Analgesic	Lidocaine	280	**ND**	5
Analgesic-NSAID	Butalbital	310	**ND**	5
Anti anxiety	Meprobamate	520	**ND**	5
Anti Asthmatic	Albuterol	1800	**ND**	5
Anti Asthmatic	Theophylline	310	**ND**	10
Anti Convulsant	Primidone	230	**ND**	5
Anti Inflammatory	Diclofenac	390	**ND**	5
Anti Inflammatory	Ketoprofen	280	**ND**	5
Anti Inflammatory	Ketorolac	230	**ND**	5
Anti Inflammatory	Meclofenamic Acid	380	**ND**	5
Anti seizure	Carbamazepine	480	**ND**	5
Antibiotic	Amoxicillin	480	**ND**	20
Antibiotic	Azithromycin	31000	810	5
Antibiotic	Chloramphanicol	360	**ND**	5

***ND=Non-Detectable levels were found, *mg/L=Milligrams Per Liter, or Parts Per Million, *ug/L=Nanograms Per Liter, or Parts Per Billion**

User-friendly Summary of V Water Filter Results

Compounds Action	Compound Name	Influent Compound Level (ng/L)	Vitae Global Filter Results	Reporting Limit (ng/L)
Antibiotic	Erythromycin	700	**ND**	10
Antibiotic	Flumeqine	110	**ND**	10
Antibiotic	Lincomycin	270	**ND**	10
Antibiotic	Oxolinic acid	1200	**ND**	10
Antibiotic	Trimethoprim	84	**ND**	5
Anti-cholesterol	Clofibric acid	470	**ND**	5
Anticoagulant	Warfarin	860	**ND**	5
Antidepressant	Fluoxetine (Prozac)	470	**ND**	10
Anti-Seizure	Dilantin	2400	**ND**	20
Beta Blocker	Atenolol	1000	**ND**	5
Beta Blocker	Lopressor	3400	**ND**	20
Blood thinner	Pentoxifylline	490	**ND**	5
Calcium Blocker	Nifedipine	1600	87	20
Enzyme	Chloridazon	120	**ND**	5
H2 Blocker	Cimetidine	4400	**ND**	5
Heart Medication	Dehydronifedipine	230	**ND**	5
Lipid Regulator	Bezafibrate	1200	**ND**	5
Lipid Regulator	Gemfibrozil	450	**ND**	5
Muscle Relaxant	Carisoprodol	540	**ND**	5
Sulfa Antibiotic	Sulfachloropyridazine	3400	**ND**	5

***ND=Non-Detectable levels were found, *mg/L=Milligrams Per Liter, or Parts Per Million, *ug/L=Nanograms Per Liter, or Parts Per Billion**

User-friendly Summary of V Water Filter Results

Compounds Action	Compound Name	Influent Compound Level (ng/L)	Vitae Global Filter Results	Reporting Limit (ng/L)
Sulfa Antibiotic	Sulfadimethoxine	550	**ND**	5
Sulfa Antibiotic	Sulfamerazine	170	**ND**	5
Sulfa Antibiotic	Sulfadiazine	630	**ND**	5
Sulfa Antibiotic	Sulfamethazine	200	**ND**	5
Sulfa Antibiotic	Sulfamethizole	270	**ND**	5
Sulfa Antibiotic	Sulfathiazole	200	**ND**	5
Sulfa Antibiotic	Sulfamethoxazole	290	**ND**	5
Triazide	Bendroflumethiazide	880	**ND**	5
Valium- Antianxiety	Diazepam	620	**ND**	5
Stimulant Sample Group				
Caffeine Degradate	1,7-dimethylxanthine	700	**ND**	5
Caffeine Degradate	Theobromine	560	**ND**	5
Nicotine Degradate	Cotinine	1900	**ND**	10
Stimulant	Caffeine	780	**ND**	5
Analgesic-NSAID	Naproxen	240	**ND**	10
Personal Care Product Sample Group				
Antibacterial	Triclosan	1000	**ND**	10
Mosquito Repellant	DEET	340	**ND**	2
Preservatives				
Preservative	Butylparaben	730	**ND**	5
Preservative	Ethylparaben	2100	**ND**	20

***ND=Non-Detectable levels were found, *mg/L=Milligrams Per Liter, or Parts Per Million, *ug/L=Nanograms Per Liter, or Parts Per Billion**

User-friendly Summary of V Water Filter Results

Compounds Action	Compound Name	Influent Compound Level (ng/L)	Vitae Global Filter Results	Reporting Limit (ng/L)
Preservative	Isobutylparaben	780	**ND**	5
Preservative	Methylparaben	1400	**ND**	20
Preservative	Propylparaben	270	**ND**	5
Pesticide/Herbicide Sample Group				
Herbicide	2,4-D	250	**ND**	5
Herbicide	Bromacil	480	**ND**	5
Herbicide	Chlorotoluron	440	**ND**	5
Herbicide	Diuron	940	**ND**	5
Herbicide	Glyphosate (Roundup)	860	**ND**	5
Herbicide	Isoproturon	2000	**ND**	100
Herbicide	Linuron	420	**ND**	5
Herbicide	Metazachlor	520	**ND**	5
Pesticide	Quinoline	250	**ND**	5
Triazine Herbicide	Atrazine	390	**ND**	5
Triazine Herbicide	Cyanazine	16	**ND**	5
Triazine Degradate	DACT (Diaminochlorotriazine)	260	**ND**	5
Triazine Degradate	DEA (Deethylatrazine)	120	**ND**	5
Triazine Degradate	DIA (Deisopropylatrazine)	250	**ND**	5

***ND=Non-Detectable levels were found, *mg/L=Milligrams Per Liter, or Parts Per Million, *ug/L=Nanograms Per Liter, or Parts Per Billion**

User-friendly Summary of V Water Filter Results

Triazine Herbicide	Propazine	340	**ND**	5
Triazine Herbicide	Simazine	120	**ND**	5
Wastewater Indicator Sample Group				
Flame Retardant	TCEP	29	**ND**	5
Flame Retardant	TCPP	440	**ND**	5
Flame Retardant	TDCPP	1000	**ND**	5
Plasticizer	BPA (Bis Phenol A)	270	**ND**	10
Sugar Substitute	Acesulfame-K	1300	**ND**	20
Sugar Substitute	Sucralose	15000	**ND**	100
Surfactant	4-nonylphenol	710	**ND**	100
Surfactant	4-tert-octylphenol	400	**ND**	50
X-ray Contrast agent	Iohexol (Iohexal)	240	**ND**	10
X-ray Contrast agent	Iopromide	290	**ND**	5

***ND=Non-Detectable levels were found, *mg/L=Milligrams Per Liter, or Parts Per Million, *ug/L=Nanograms Per Liter, or Parts Per Billion**