

**2011 Consumer Confidence Report**

Virginia PWSID No. 4041035

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January 31, 2012

Microbiological Contaminant	Units	MCLG	MCL	Highest	Average	Comment
Total Coliform Bacteria		0	present in <= 5% monthly samples	4.76%	<b>0.41%</b>	Localities must report their own results! 240 of 241 samples were negative
Fecal Coliform & <i>E. coli</i>		0	routine sample & repeat sample if positive or 1 is also fecal coliform or <i>E. coli</i> positive	None Positive	<b>None Positive</b>	Localities must report their own results! 241 of 241 samples were negative
TOC (total organic carbon)	n/a	n/a	TT = running annual average removal ratio minimum	1.25 (min) 1.36 (max)	<b>1.29</b>	Daily calculations of TOC removal percentages Minimum allowable RAA ratio = 1.0
Turbidity - combined filtered water	NTU	0	TT=1 NTU max	0.142	<b>0.056</b>	No Violations (**)
	NTU	0	TT=<0.3 NTU 95% of time	100.0%	<b>100.00%</b>	36448 of 36448 readings were <0.3 NTU
<i>Cryptosporidium</i>	oocyst/L	<0.075	--	0.1	<b>0.012</b>	Samples were collected twice a month from October 2006 - September 2008.
Radiological	Units	MCLG	MCL	Highest	Average	Comment
Beta/photon emitters	pCi/l	0	50(*)	4	<b>N/A</b>	October 22, 2008 test - next test is 2012
Alpha emitters	pCi/l	0	15	0.1	<b>N/A</b>	October 22, 2008 test - next test is 2012
Radium	pCi/l	0	5	0.9	<b>N/A</b>	October 22, 2008 test - next test is 2012
Inorganics	Units	MCLG	MCL	Min/Max	Average	Comment
Fluoride	ppm	4	4	1.40 (max) 0.00 (min)	<b>0.44</b>	Four Daily analyses at plant
Nitrate + Nitrite	ppm	10	10	0.18	<b>N/A</b>	October 27, 2011 test
Barium	ppm	2	2	0.025	<b>N/A</b>	October 27, 2011 test
Disinfectants	Units	MRDL	MRDLG	Min/Max	Average	Comment
Chlorine Dioxide	ppm	0.8	0.8	0.19 (max) -0.14 (min)	<b>0.01</b>	Daily at plant
Chlorine	ppm	4	4	3.80 (max) 1.10 (min)	<b>3.08</b>	Weekly analysis of water in the transmission system
Disinfection By-products	Units	MCLG	MCL	Min/Max	Average	Comment
Chlorite	ppm	0.8	1.0	0.88 (max) 0.05 (min)	<b>0.28</b>	Daily at plant
TTHMs @ plant	ppb	0	80	NA	<b>N/A</b>	ARWA done weekly. Localities report their results
HAAs @ plant	ppb	0	60	NA	<b>N/A</b>	ARWA done weekly. Localities report their results
Unregulated Contaminants	Units	MCLG	MCL	Highest	Average	Comment
Sulfate	ppm	none	none	32.1	<b>N/A</b>	October 27, 2011 test
Chloroform	ppb	none	none	23	<b>N/A</b>	October 27, 2011 test
Bromodichloromethane	ppb	none	none	3.1	<b>N/A</b>	October 27, 2011 test
MTBE - finished water	ppb	none	none	<5.0	<b>N/A</b>	October 27, 2011 test
Dibromochloromethane	ppb	none	none	<0.50	<b>N/A</b>	October 27, 2011 test

(\*) The MCL for beta particles is 4 millirem/year. EPA considers 50 pCi/l to be the level of concern.

**Definitions**

- MCL** - Maximum Contaminant Level - The highest level of a contaminant that is allowed in drinking water. The MCLs are set as close to the MCLG as feasible using the best available treatment technology.
- MCLG** - Maximum Contaminant Level Goal - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- MRDL** - Maximum Residual Disinfectant Level - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- MRDLG** - Maximum Residual Disinfectant Level Goal - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- RAA** - Running Annual average - removal ratio and the range of the removal for the individual months
- NTU** - Nephelometric Turbidity Units - The measure of turbidity in the water.
- AL** - Action Level - The concentration of a contaminant which, if exceeded, triggers a treatment or other requirement which a water system must follow.
- TT** - Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water.
- ppm** - parts per million - (1/1,000,000) or milligrams per Liter (mg/l)
- ppb** - parts per billion - (1/1,000,000,000)
- pCi/L** - picocuries per Liter (a measure of radioactivity)