

## Sherwood Estates Water System – 2020 Water Quality Report

The Sherwood Estates Water System serves the Sherwood Estates subdivision in the Quinton area.

### SOURCES AND TREATMENT OF DRINKING WATER

The source of the drinking water is groundwater. The well is located on Quaker Road, near the intersection with Sherwood Drive. Water from the well is disinfected with sodium hypochlorite solution.

The Virginia Department of Health conducted a source water assessment of the well in 2019. The well was determined to be of low susceptibility to contamination, using criteria developed by the State in its EPA-approved Source Water Assessment Program. The assessment report consists of maps showing the source water assessment area, an inventory of known land use activities of concern, and documentation of any known contamination within the last 5 years from the date of the assessment.

### WATER QUALITY RESULTS

#### I. Microbiological Contaminants

Contaminant	MCLG	MCL	Number of Samples Indicating Presence of Bacteria	Violation (Y/N)	Month of Sampling	Typical Source of Contamination
Total Coliform Bacteria	0	Presence of bacteria in more than one sample per month	0	No	Jan-Dec	Naturally present in the environment

#### II. Lead and Copper Contaminants

Contaminant	Units of Measurement	Action Level	MCLG	Results of samples for the 90 <sup>th</sup> Percentile Value	Action Level Exceedance (Y/N)	Month of Sampling	# of Sampling Sites Exceeding Action Level	Typical Source of Contamination
Lead	ppb	15	0	14.8	No	3/2020	1	Corrosion of household plumbing system; Erosion of natural deposits
				2.31	No	11/2020	0	
Copper	ppm	1.3	1.3	0.0831	No	3/2020	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
				0.0883	No	11/2020	0	

#### III. Other Chemical and Radiological Contaminants

Contaminant	Units of Measurement	MCLG	MCL	Level Detected	Violation (Y/N)	Range of Detection at Sampling Points	Date of Sample	Typical Source of Contamination
Combined Radium*	pCi/L	0	5	<0.90	No	--	6/2020	Erosion of natural deposits
Gross Alpha	pCi/L	0	15	<0.36	No	--	6/2020	
Gross Beta**	pCi/L	0	50	6.7	No	--	6/2020	Erosion of natural deposits; decay of man-made deposits
Nitrate	ppm	10	10	<0.05	No	--	6/2020	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Fluoride	ppm	4	4	0.23	No	--	6/2020	Erosion of natural deposits
Trihalomethanes	ppb	80	80	5.2	No	--	8/2019	By-product of naturally occurring organic matter and chlorine added to the water
Haloacetic Acids	ppb	60	60	<1	No	--	8/2019	

\* Since Radium-226 is an alpha emitter, Gross Alpha Activity is used in place of Radium-226 when Radium-226 has not been analyzed.

\*\* The PMCL for beta particles is 4 mrem/year. EPA considers 50 pCi/l to be the level of concern for beta particles.

#### IV. Unregulated Contaminants

Contaminant	Units of Measurement	Level Detected	Violation (Y/N)	Range of Detection at Sampling Points	Date of Sample	Typical Source of Contamination
Sulfate	ppm	8.6	No	--	6/2020	EPA and State Regulations require us to monitor this contaminant while EPA reconsiders its MCL.

#### V. Disinfectants

Disinfectant	Units of Measurement	MRDLG	MRDL	Level Detected (Annual Average)	Violation (Y/N)	Range of Detection at Sampling Points	Year	Typical Source
Chlorine	ppm	4	4	0.51	No	0.31-0.67	2020	Water additive used to control microbes

### ADDITIONAL HEALTH INFORMATION

Samples collected in June 2020 indicated that the **drinking water from this water system contains sodium at concentrations of 42.8 mg/l**. Persons on a restricted sodium intake diet should not drink water containing a sodium concentration exceeding 20 mg/l.

### IMPORTANT INFORMATION ABOUT LEAD IN DRINKING WATER

New Kent Public Utilities has found elevated levels of lead in drinking water in one home in the Sherwood Estates Subdivision. **At least one water samples collected in August 2019 & March 2020 exceeded the action limit for lead of 15 parts per billion.** Detectable lead has been reported in drinking water samples in several locations throughout the water system, however sampling events in 2020 revealed the Action Level was not exceeded for the 90<sup>th</sup> percentile (9 out of 10 samples).

The US EPA has determined that no amount of lead in drinking water is safe.

New Kent Public Utilities is in full compliance with the EPA's Lead & Copper Rule, and continues to monitor for lead in cooperation with the Virginia Department of Health.

Consumer information on Lead in Drinking Water is included with this mailing.