

Quinton Park Water System – 2021 Water Quality Report

The Quinton Park Water System serves the Quinton Park subdivision.

SOURCES AND TREATMENT OF DRINKING WATER

The source of the drinking water is groundwater. The well is located off Quinton Park 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 th Percentile Value	Action Level Exceedance (Y/N)	Month of Sampling	# of Sampling Sites Exceeding Action Level	Typical Source of Contamination
Lead	ppb	15	0	<2	No	8/2019	0	Corrosion of household plumbing system; Erosion of natural deposits
Copper	ppm	1.3	1.3	<0.02	No	8/2019	0	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

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	0.5	No	--	7/2019	Erosion of natural deposits
Gross Alpha	pCi/L	0	15	0.5	No	--	7/2019	
Gross Beta**	pCi/L	0	50	5.8	No	--	7/2019	Erosion of natural deposits; decay of man-made deposits
Nitrate	ppm	10	10	<0.05	No	--	7/2021	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Fluoride	ppm	4	4	0.31	No	--	7/2019	Erosion of natural deposits
Trihalomethanes	ppb	80	80	16	No	--	7/2018	By-product of naturally occurring organic matter and chlorine added to the water
Haloacetic Acids	ppb	60	60	2.1	No	--	7/2019	
Xylenes	ppm	10	10	0.0098	No	--	7/2021	Discharge from petroleum or chemical factories
Ethylbenzene	ppm	1	1	0.0018	No	--	7/2021	

* 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	8.7	No	N/A	7/2019	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	0.52	No	0.42-0.63	2021	Water additive used to control microbes

ADDITIONAL HEALTH INFORMATION

Samples collected in July 2019 indicated that the **drinking water from this water system contains sodium at concentrations of 46.7 mg/l**. Persons on a restricted sodium intake diet should not drink water containing a sodium concentration exceeding 20 mg/l.