

2021 Consumer Confidence Report for Public Water System CITY OF SPRING VALLEY VILLAGE

This is your water quality report for January 1 to December 31, 2021

CITY OF SPRING VALLEY VILLAGE provides 70% ground water from Gulf Coast aquifer through a water well located within the limits of the City of Spring Valley Village, and 30% surface water purchased from the City of Houston, Harris County.

This CCR can be found at <https://www.springvalleytx.com>

For more information regarding this report contact:

City of Spring Valley Village

Phone (713) 465-8308; publicworks@springvalleytx.com



Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (713) 465-8308.

Definitions and Abbreviations

Definitions and Abbreviations	The following tables contain scientific terms and measures, some of which may require explanation.
Action Level:	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Action Level Goal (ALG):	The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Level 1 Assessment:	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
Level 2 Assessment:	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
Maximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Maximum Contaminant Level Goal or MCLG:	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.
Maximum residual disinfectant level or MRDL:	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.
Maximum residual disinfectant level goal or MRDLG:	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.
MFL	million fibers per liter (a measure of asbestos)
mrem:	millirems per year (a measure of radiation absorbed by the body)
na:	not applicable.
ND	no detect
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter (a measure of radioactivity)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
ppq	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
SU	single use
SCL	Secondary Contaminant Level
Treatment Technique or TT:	a required process intended to reduce the level of a contaminant in drinking water.
ug/l	means micrograms per liter, a measure of the concentration of a substance in water, equivalent to "parts per billion."

Information about your Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. **The presence of contaminants does not necessarily indicate that water poses a health risk.** More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact the system's business office.

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or immunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders, can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care providers. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791)

Information about Source Water

TCEQ completed an assessment of your source water, and results indicate that some of our sources are susceptible to certain contaminants. The sampling requirements for your water system is based on this susceptibility and previous sample data. Any detections of these contaminants will be found in this Consumer Confidence Report. For more information on source water assessments and protection efforts at our system, contact the Public Works Director, (713) 465-8308, publicworks@springvalleytx.com.

2021 Water Quality Test Results

City of Spring Valley Village								
Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2021	1.3	1.3	0.16	0	ppm	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2021	0	15	4.7	0	ppb	No	Corrosion of household plumbing systems; Erosion of natural deposits.
<p>If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800) 426-4791 or at http://www.epa.gov/safewater/lead.</p>								
Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA5)	2021	11	11 - 11	No goal for the total	60	ppb	No	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2021	13	12.5 - 12.5	No goal for the total	80	ppb	No	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	02/11/2019	2	2 - 2	0	10	ppb	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	02/11/2019	0.147	0.147 - 0.147	2	2	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	06/30/2020	0.51	0.51 - 0.51	4	4.0	ppm	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate [measured as Nitrogen]	2021	0.29	0.29 - 0.29	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	02/11/2019	14.1	14.1 - 14.1	50	50	ppb	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Uranium	2021	1.4	1.4 - 1.4	0	30	ug/l	No	Erosion of natural deposits.

Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation	Source in Drinking Water
Chloramines	2021	1.935	0.5-4.0	4	4	ppm	No	Water additive used to control microbes.

Data Supplied by the City of Houston

Customers of Houston Water Main System receive their drinking water from three water purification plants and 40 ground water plants. 16 additional groundwater plants provide for the remaining 5 Houston Water Systems. The City of Houston treats the water according to federal and state standards to remove harmful contaminants.

Turbidity	Year	Average Level	Range Min - Max	MCLG	MCL	Units	Violation	Likely Source of Contamination
Turbidity	2021	0.12	0.07 - 0.48	Not provided	Not provided	NTU	No	Soil runoff

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

Lead and Copper	Date Sampled	MCLG	Action Level	90 th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	08/22/2019	1.3	1.3	0.116	0	ppm	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	08/22/2019	0	15	3.54	0	ppm	No	Corrosion of household plumbing systems; Erosion of natural deposits.

Disinfection By-Products	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Haloacetic Acids (HAA%)	2020	2	0 – 1.6	No goal for the total	60	ppb	No	By-product of drinking water disinfection.

*The value in the Highest Level or Average Detected column is the highest average of all HAA% sample results collected at a location over a year

Total Trihalomethanes (TTHM)	2020	9	1 – 9.3	No goal for the total	80	ppb	No	By-product of drinking water disinfection.
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Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Radium-226	2017	1.61	0 – 1.6	0	5	pCi/L	No	Erosion of natural deposits.
Uranium	2017	<0.001	<0.001 – <0.001	0	30	ppm	No	Erosion of natural deposits.
Gross Alpha	2017	4	0 – 4	0	15	pCi/L	No	Erosion of natural deposits.
Gross Beta	2017	4.4	0 – 4.4	0	50	pCi/L	No	Decay of natural and manmade deposits.

Inorganic Contaminants (Treatment Plant)	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2021	0.0034	ND – 0.0034	0	0.01	ppm	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2021	0.247	0.0554 – 0.247	2	2	ppm	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2021	0.16	0.09 – 0.16	0.2	0.2	ppm	No	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.

DI(2-Ethylhexyl) Phthalate	2021	0.99	ND – 0.99	0	6	Ug/l	No	Discharge from rubber and chemical factories
Nitrate [measured as Nitrogen]	2021	0.62	ND-0.62	10	10	ppm	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Atrazine	2021	0.19	0.14 - 0.19	3	3	Ug/l	No	Runoff from herbicide used on row crops.
Simazine	2021	0.07	0.07 - 0.07	4	4	Ug/l	No	Herbicide runoff.
Secondary Contaminant	Year	Highest Level Detected	Range of Individual Samples	Secondary Contaminant Level (SCL)	Unit of Measure	Violation	Source in Drinking Water	
Aluminum	2021	0.0939	0.0317-0.0939	0.2	ppm	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	
Chloride	2021	36	31-36	250	ppm	No	A compound of chlorine with another element or group especially: a salt or ester of hydrochloric acid. Chloride is found in table salt or sea salt as sodium chloride.	
Fluoride	2021	0.25	0.24-0.25	ND	ppm	No	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories.	
Iron	2020	0.1	ND – 0.1	0.3	ppm	No	Erosion of natural deposits.	
Manganese	2021	0.0038	0.0028-0.038	0.05	ppm	No	Erosion of natural deposits.	
pH	2021	8.1	7.7-8.1	8.5	SU	No	pH is an expression of hydrogen ion concentration in water.	
Sulfate	2021	39	28-39	250	ppm	No	Sulfate is a naturally occurring ion found in combination with metals in the form of salts.	
Total Dissolved Solids (TDS)	2021	301	198-301	500	ppm	No	The quantity of dissolved material in a given volume of water.	
Zinc	2020	0.0084	ND – 0.0084	5	ppm	No	Erosion of natural deposits.	