

2008 Annual Drinking Water Quality Report

(Consumer Confidence Report)

TOWN OF SUNNYVALE

Phone Number: 972-226-7177

Special Notice for the ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems:

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The EPA/Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Public Participation Opportunities

Date: June 25, 2009

Time: 7:00 P.M.

Location: 127 N. Collins Road

Phone Number: 972-226-7177

To learn about future public meetings (concerning your drinking water), or to request to schedule one, please call us.

OUR DRINKING WATER IS REGULATED

by the Texas Commission on Environmental Quality (TCEQ) and they have determined that certain water quality issues exist which prevent our water from meeting all of the requirements as stated in the Federal Drinking Water Standards. Each issue is listed in this report as a violation and we are working closely with the TCEQ to achieve solutions.

WATER SOURCES: 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. Contaminants that may be present in source water before treatment include: microbes, inorganic contaminants, pesticides, herbicides, radioactive contaminants, and organic chemical contaminants.

En Español

Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (972_203_4143 __ - para hablar con una persona bilingüe en español.

Where do we get our drinking water?

Our drinking water is obtained from SURFACE water sources. It comes from the following Lake/River/Reservoir/Aquifer: LAVON LAKE. A Source Water Susceptibility Assessment for your drinking water sources(s) is currently being updated by the Texas Commission on Environmental Quality and will be provided to us this year. The report will describe the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information contained in the assessment will allow us and/or the system(s) from which we receive water to focus on source water protection strategies. For more information on source water assessments and protection efforts at our system, please contact us.

ALL drinking water may contain contaminants.

When drinking water meets federal standards there may not be any health based benefits to purchasing bottled water or point of use devices. 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 (1-800-426-4791).

Secondary Constituents

Many constituents (such as calcium, sodium, or iron) which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

About The Following Pages

The pages that follow list all of the federally regulated or monitored contaminants which have been found in your drinking water. The U.S. EPA requires water systems to test for up to 97 contaminants.

DEFINITIONS

Maximum Contaminant Level (MCL)

The highest permissible level of a contaminant in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG)

The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL)

The highest level of 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 (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 contamination.

Treatment Technique (TT)

A required process intended to reduce the level of a contaminant in drinking water.

Action Level (AL)

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

ABBREVIATIONS

NTU - Nephelometric Turbidity Units

MFL - million fibers per liter (a measure of asbestos)

pCi/L - picocuries per liter (a measure of radioactivity)

ppm - parts per million, or milligrams per liter (mg/L)

ppb - parts per billion, or micrograms per liter (µg/L)

ppt - parts per trillion, or nanograms per liter

ppq - parts per quadrillion, or picograms per liter

Inorganic Contaminants

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2008	Barium	0.04	0.039	0.041	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2008	Fluoride	0.46	0.45	0.47	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2008	Nitrate	0.44	0.42	0.45	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2008	Gross beta emitters	3.5	2.6	4.4	50	0	pCi/L	Decay of natural and man-made deposits.

Organic Contaminants

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2008	Atrazine	0.11	0.1	0.12	3	3	ppb	Runoff from herbicide used on row crops.

Maximum Residual Disinfectant Level

Systems must complete and submit disinfection data on the Disinfection Level Quarterly Operating Report (DLQOR). On the CCR report, the system must provide disinfectant type, minimum, maximum and average levels.

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Chemical
2008	<i>Disinfectant used</i>	<i>Average level of CCR year's quarterly</i>	<i>Minimum result single sample</i>	<i>Maximum result single sample</i>	4.0	<4.0	ppm	Disinfectant used to control microbes.
	N/A	1.7	.5	2.2				N/A

Disinfection Byproducts

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2008	Total Haloacetic Acids	22.7	16.3	38	60	ppb	Byproduct of drinking water disinfection.
2008	Total Trihalomethanes	42.1	32.3	51.5	80	ppb	Byproduct of drinking water disinfection.

Unregulated Initial Distribution System Evaluation for Disinfection Byproducts

This evaluation is sampling required by EPA to determine the range of total trihalomethane and haloacetic acid in the system for future regulations. The samples are not used for compliance, and may have been collected under non-standard conditions. EPA also requires the data to be reported here.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2007	Total Haloacetic Acids	8.9	0	24.5	NA	ppb	Byproduct of drinking water disinfection.
2007	Total Trihalomethanes	50.8	39.1	64.4	NA	ppb	Byproduct of drinking water disinfection.

Unregulated Contaminants

Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2008 2005	Chloroform	23.79	13.35	31.8	ppb	Byproduct of drinking water disinfection.
2008 2005	Bromodichloromethane	18.44	12.17	25.3	ppb	Byproduct of drinking water disinfection.
2008 2005	Dibromochloromethane	9.05	5.2	15.6	ppb	Byproduct of drinking water disinfection.

Lead and Copper

Year	Contaminant	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2003	Lead	1.9	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2003	Copper	0.592	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

Recommended Additional Health Information for Lead

All water systems are required by EPA to report the language below starting with the 2009 CCR to be delivered to you by July of 2010. We are providing this information now as a courtesy.

"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. This water supply is responsible for providing high quality drinking water, but 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 or at <http://www.epa.gov/safewater/lead>."

Turbidity

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.

Year	Contaminant	Highest Single Measurement	Lowest Monthly % of Samples Meeting Limits	Turbidity Limits	Unit of Measure	Source of Contaminant
2008	Turbidity	0.40	98.00	0.3	NTU	Soil runoff.

Total Coliform REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA.

Fecal Coliform REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

VIOLATIONS

Violation Type	Health Effects	Duration	Explanation	Steps to Correct
DISTRIBUTION: DISINFECTANT RESIDUAL - FAILURE TO MONITOR OR REPORT REQUIRED SAMPLES	We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During this compliance period, we did not correctly monitor or report, and therefore TCEQ cannot be sure of the quality of your drinking water during that time.	10/1/2008 to 12/31/2008	SEE ATTACHED	SEE ATTACHED

Secondary and Other Constituents Not Regulated
(No associated adverse health effects)

Year or Range	Constituent	Average Level	Minimum Level	Maximum Level	Secondary Limit	Unit of Measure	Source of Constituent
2008	Bicarbonate	110	108	111	NA	ppm	Corrosion of carbonate rocks such as limestone.
2008	Calcium	61.1	60.4	61.8	NA	ppm	Abundant naturally occurring element.
2008	Chloride	47	47	48	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity
2008	Copper	0.042	0.008	0.075	1	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
2008	Hardness as Ca/Mg	174	172	176	NA	ppm	Naturally occurring calcium and magnesium.
2008	Magnesium	5.3	5.3	5.3	NA	ppm	Abundant naturally occurring element.
2008	Manganese	0.0006	0	0.0012	.05	ppm	Abundant naturally occurring element.
2008	Nickel	0.004	0.004	0.004	NA	ppm	Erosion of natural deposits.
2008	pH	7.9	7.8	7.9	>7.0	units	Measure of corrosivity of water.
2008	Sodium	38	35	40	NA	ppm	Erosion of natural deposits; byproduct of oil field activity.
2008	Sulfate	71	62	80	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2008	Total Alkalinity as CaCO ₃	110	108	111	NA	ppm	Naturally occurring soluble mineral salts.
2008	Total Dissolved Solids	343	334	351	1000	ppm	Total dissolved mineral constituents in water.
2006	Total Hardness as CaCO ₃	215	215	215	NA	ppm	Naturally occurring calcium.
2008	Zinc	0.005	0.005	0.005	5	ppm	Moderately abundant naturally occurring element; used in the metal industry.

Mandatory Public Notification Language
Notice of Drinking Water Monitoring and Reporting Violations

The Texas Commission on Environmental Quality (TCEQ) has notified the TOWN OF SUNNYVALE that we have violated the monitoring and reporting requirements set forth in Chapter 30, Section 290, Subchapter F. We are required to properly disinfect water before distribution, maintain acceptable disinfection residuals within the distribution system, monitor the disinfectant residual at various locations throughout the distribution system, and report the results of that monitoring to the TCEQ on a quarterly basis. Results of regular monitoring are an indicator of whether or not your drinking water is protected from microbial contamination. During the fourth quarter of 2008 beginning October 1, 2008 and ending December 31, 2008, we did not complete all monitoring and/or reporting for disinfectant residual monitoring & reporting, and therefore the TCEQ cannot be sure of the safety of your drinking water during that time.

We have corrected this procedural error and have ensured that **all** required reporting to the TCEQ is occurring appropriately.

Please be aware that during the time period listed above, appropriate water samples were taken and tested as required, with no instance of a bad sample. Sunnyvale water is provided by the North Texas Municipal Water District, which also tests the water before sending it to Sunnyvale. The stated violation was a matter of failure to submit the appropriate report to the TCEQ for this testing period. The report has since been forwarded to the TCEQ; and Town procedures for submitting the required reports have been reviewed and corrected to avoid any future reporting violations. Although the language in the first paragraph indicates monitoring did not take place, please understand monitoring did take place. The Town is simply required to use that exact language, in notifying the public of a violation, so we have done so. Please feel free to contact Sunnyvale Public Works Director, Mark Bland, at 972-203-4113 with any questions. Additionally please see our website for the backup information on all field monitoring. We apologize for this technical reporting violation.

Public Water System ID # 0570059