

Water Quality

Report 2005



**Concept Therapy Institute
Aum Sat Tat**

Public water systems, like Concept Therapy Institute (Aum Sat Tat), are required by law to report every year on the type and quantity of substances that are in our water. This law – the Safe Drinking Water Act (SDWA) that was amended by Congress in 1996 – has specific guidelines concerning drinking water, as well as methods of testing, and how often testing is conducted. The data in this water quality report specifically for the Concept Therapy Institute (Aum Sat Tat) customers, is based on 2000 – 2004 data from Concept Therapy Institute (Aum Sat Tat) water quality information.

The Environmental Protection Agency (EPA) administers the SDWA to make sure tap water is safe to drink by limiting the presence of contaminants in public water systems. Bottled water, on the other hand, is regulated by the Food and Drug Administration (FDA) which limits contaminants for similar protection to the public health.

The Texas Commission on Environmental Quality (TCEQ) has completed Phase I of the Source Water Assessment of the water sources used by Concept Therapy Institute. The 1996 amendments to the Safe Drinking Water Act require all states to assess their public water sources and provide the results to each respective water system. The assessment is developed with the goal of providing public water systems with useful information that will help protect our source water. The CTI system was determined to be susceptible to some contaminants, using criteria developed by TCEQ in its federally approved source water assessment program. The assessment report consists of maps showing the assessment area, an inventory of known land use activities of concern and documentation of specific contaminants of concern. Consumers may access this information by calling 704-SAWS (7297).

Our Commitment to You

SAWS has a long-term commitment to providing our customers with excellent drinking water, which has been proven through the years. Since 1936, SAWS has been rated as a superior water system by the TCEQ. CTI was designated as a superior water system in September 2003.

Your confidence in San Antonio's water supply is important to us at SAWS. We are committed to providing reliable, quality water. We are also committed to providing leadership in managing San Antonio's water resources.

Where Our Water Comes From

Water drawn from rivers and lakes is called "surface water." Water from wells is called "ground water." The drinking water you receive is groundwater from the Glen Rose Aquifer and the Cow Creek Aquifer.

SAWS is expanding our wellhead protection program, increasing our knowledge of water sources, and continuing our commitment to educating the public. As new drinking water sources are acquired, SAWS will implement additional Wellhead/Source Water Protection Programs to continue to ensure the quality of our water.

What's In Our Water

The technical term for anything other than water is "contaminant." It is natural for drinking water to contain contaminants, but as you will see, San Antonio's water is well within allowable limits. 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.

If you would like more information about contaminants and potential health effects, contact the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Special Notice

For Elderly, Infants, Cancer Patients, People with HIV/AIDS or Immune Problems:

You may be more vulnerable than the general population to certain microbial contaminants, such as *Cryptosporidium*, in drinking water. Infants, some elderly, or immuno-compromised persons such as those undergoing chemotherapy for cancer; those 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 provider. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the *Safe Drinking Water Hotline* (1-800-426-4791).

Types Of Contaminants

Sources for 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 include:

- Microbiological contaminants, such as viruses and bacteria which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife. Cryptosporidium is an example of a microbiological contaminant affecting surface water sources. Since SAWS uses underground aquifers as water sources, Cryptosporidium is not a tested contaminant.
- Inorganic contaminants, such as salts and metals which can be naturally-occurring or result from urban stormwater

runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming;

- Pesticides and herbicides, which may have a variety of sources such as agriculture, urban stormwater runoff and residential uses;
- Organic chemical contaminants which are by-products of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff and septic systems and;
- Radioactive contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.

Contaminants may be found in drinking water and 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, contact SAWS Customer Service Department at (210)704-SAWS (7297).

Understanding The Charts

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for margin of safety.

Maximum Contaminant Level (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.

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

Not regulated: The contaminant is not currently regulated by the Environmental Protection Agency.

pCi/l: Picocuries per liter. A measure of radioactivity in water.

ppm: Parts per million. One part per million equals one teaspoon in 1,302 gallons, which is enough water to fill a typical bathtub more than 40 times.

ppb: Parts per billion. One part per billion is equal to one

teaspoon in 1,302,000 gallons – enough to fill a typical bathtub more than 40,000 times.

N/A: Not applicable

ND: Not detected

Points-of-entry: Entry point to the distribution system which is representative of each well after disinfection.

Remember that these substances are shown in parts per million or parts per billion. As you will see in these charts, water delivered by SAWS is of excellent quality.

Maximum residual disinfectant level (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 (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.

Substance	Test Year	Concentration Range Found	Highest Concentration Found	MCL / MRDL	MCLG / MRDLG	Possible Source
Nitrate (ppm)	2004	ND – 1.39	1.39	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Barium (ppm)	2001	ND – 0.0215	0.0215	2	2	Discharge from drilling wastes; discharge from metal refineries; erosion of natural deposits.
Fluoride (ppm)*	2003	ND – 0.4	0.4	4	4	Erosion of natural deposits; Discharge from fertilizer and aluminum factories.
Chlorine (ppm)	2004	0.03 – 1.35	1.35	4	4	Water additive used to control microbes
Trihalomethanes	2003	ND – 5.2	5.2	100	0	Byproduct of drinking water chlorination.
Gross alpha adjusted (PCi/l)	2001	ND – 2.6	2.6	15	0	Erosion of natural deposits.
Combined Radium (PCi/l)	2001	ND – 1.5	1.5	5	0	Erosion of natural deposits.

* This level reflects naturally-occurring fluoride.

Other Substances (2001)

Substance	Concentration Range (ppm)	Average Concentration Found (ppm)	MCL (ppm)
Calcium	76	76	Not Regulated
Chloride	22	22	250
Aluminum	0.0064	0.0064	0.2
Magnesium	26	26	Not Regulated
Sodium	11	11	Not Regulated
Sulfate	17	17	250
Total Hardness ^a	299	299	Not Regulated
Total Alkalinity ^a	280	280	Not Regulated
Total Dissolved Solids	381	381	500
Zinc	0.007 – 0.2	0.05	5

^a as Calcium Carbonate

Required Monitoring - No MCL's (2001)

Substance ^e	Range Detected (ppb)	Average Concentration (ppb)	Reason for monitoring
Chloroform	ND	ND	^d These values are from points-of-entry ^e Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.
Bromodichloromethane	ND	ND	
Dibromochloromethane	ND - 1.10	1.10	
Bromoform	ND	ND	

Lead and Copper Results^f (2003)

In 2003, SAWS applied and received a waiver for lead and copper sampling. Texas Commission on Environmental Quality allows waivers for systems serving less than 3,301 customers which have 90th percentile values of ≤ 0.005 mg/l for lead and ≤ 0.65 mg/l for copper. Sampling for S&S Hills will occur again in the year 2009 and every nine years after that.

Substance	90th Percentile	Action Level	Number of residences exceeding Action Level	Possible Source
Lead (ppb)	3.6	15	0	Corrosion of household plumbing
Copper (ppm)	0.165	1.3	0	

^f These two metals get into the water because of corrosion of household plumbing. Many older homes have copper pipes that were put together with lead-based solder. The 90th percentile means that 90 percent of the homes measured had less than that. A total of 5 residences were monitored.

Distribution Sampling for By-Products of Drinking Water Chlorination (Disinfection) (2004)

Substance	Concentration Range Found	Highest Concentration Found	Maximum Contaminant Level (MCL)	Maximum Contaminant Level Goal (MCLG)
Trihalomethanes (THMs) (ppb)				
Chloroform	ND	ND	**	**
Bromodichloromethane	ND	ND	**	**
Dibromochloromethane	ND – 3.7	3.7	**	**
Bromoform	ND – 2.7	2.7	**	**
Total THMs	ND – 6.4	6.4	80	n/a
Haloacetic Acids (HAAs) (ppb)				
HAA5	ND	ND	**	**
Monochloroacetic Acid	ND	ND	**	**
Bromochloroacetic Acid	ND – 1.0	1.0	**	**
Dichloroacetic Acid	ND	ND	**	**
Trichloroacetic Acid	ND	ND	**	**
Monobromoacetic Acid	ND	ND	**	**
Dibromoacetic Acid	ND – 1.9	1.9	**	**
Total HAA	ND – 2.9	2.9	60	n/a

**MCL and MCLG has not been established by the EPA at this time.

Contact Us

By Phone

704-SAWS (704-7297)

Our Customer Service Lines are open 24 hours a day for:

- Customer Service help
- Reporting leaks, main breaks, or sewer back-ups,
- Contacting us for water quality concerns

On The Web

www.saws.org

Our website has the latest news releases and program information on water issues.

In Your Neighborhood

(210) 704-7333

SAWS Community Relations team is involved in homeowners associations and neighborhood meetings, schools and community gatherings. Call us for more information about how we can assist in your neighborhood.

Visit Us

Customer Service Locations

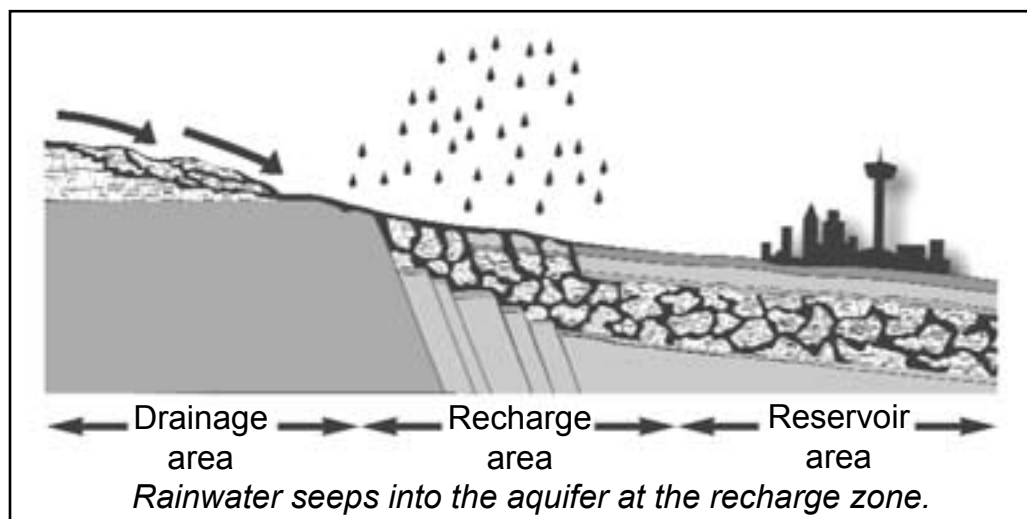
Downtown 1001 E. Market
Eastside 915 South WW White Rd.
Westside Las Palmas Mall

Hours: 8 a.m. to 5 p.m.

If you would like more information or a copy of this Water Quality Report in Spanish, please call 704-7350.

Este reporte incluye información sobre su agua potable. Si desea más información o una copia de este reporte en español, por favor llame al 704-7350.

Protecting Our Water Sources



An aquifer is a geologic formation which may contain sand, gravel, clays and/or limestone that collects and holds rainwater as it flows through the ground. This happens over the recharge zone.

The recharge zone for the lower Glen Rose and Cow Creek formations occurs in Kendall and Comal counties. The geologic formations that form the Glen Rose and Cow Creek aquifers are primarily limestone, which is calcium carbonate. A relatively high level of calcium carbonate dissolved in the water makes it 'hard.'

It is important to protect the recharge zone from contamination such as fertilizer, petrochemical products, and other chemical contaminants because they might eventually filter into the water supply in the aquifer. There are strict regulations about what may and may not be discharged over the recharge zone, and aquifer water is checked and analyzed regularly to be sure it is safe to drink.

If you would like to find out when SAWS Board meetings and Town Hall meetings are scheduled, call the SAWS Communications and Community Outreach Office at (210)704-7333. You can also check our web site on the internet at www.saws.org.

If there is anything about this report that you do not understand or if you would like more information, please call SAWS Customer Service Department at (210)704-7297. Additional copies of the 2005 Water Quality Report are available at any of our Customer Service Centers.



Our Water.



Our Future.

