

# The Water We Drink

## MANCHAC

Public Water Supply ID: LA1105096

We are pleased to present to you the Annual Water Quality Report for the year 2007. This report is designed to inform you about the quality of your water and services we deliver to you every day (Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien). Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water source(s) are listed below:

Source Name	Source Water Type	Source Water Body Name
MANCHAC WELL 001	Ground 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 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:

**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 stormwater 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 stormwater 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 stormwater runoff, and septic systems.

**Radioactive Contaminants** - which can be naturally-occurring or be the result of oil and gas production and mining activities.

A Source Water Assessment Plan (SWAP) is now available from our office. This plan is an assessment of a delineated area around our listed sources through which contaminants, if present, could migrate and reach our source water. It also includes an inventory of potential sources of contamination within the delineated area, and a determination of the water supply's susceptibility to contamination by the identified potential sources. According to the Source

Water Assessment Plan, our water system had a susceptibility rating of 'high'. If you would like to review the Source Water Assessment Plan, please feel free to contact our office at the number provided in the following paragraph.

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. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health. We are pleased to report that our drinking water is safe and meets Federal and State requirements. We want our valued customers to be informed about their water utility. If you have any questions about this report, want to attend any scheduled meetings, or simply want to learn more about your drinking water, please contact GARY CLARK at 985-345-6457.

The Louisiana Department of Health and Hospitals - Office of Public Health routinely monitors for constituents in your drinking water according to Federal and State laws. The tables that follow show the results of our monitoring during the period of January 1st to December 31st, 2007. 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.

In the tables below, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

Non-Detects (ND) – laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/L) – one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/L) – one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (ng/L) – one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) or Picograms per liter (pg/L) – one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.

Picocuries per liter (pCi/L) – picocuries per liter is a measure of the radioactivity in water.

Millirems per year (mrem/yr) – measure of radiation absorbed by the body.

Million fibers per liter (MFL) – million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) – nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Variations & Exemptions (V&E) – State or EPA permission not to meet MCL or a treatment technique under certain conditions.

Action level (AL) – the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that a water system must follow.

Treatment technique (TT) – a treatment technique is a required process intended to reduce the

level of a contaminant in drinking water.

Maximum contaminant level (MCL) – the “Maximum Allowed” MCL is the highest level of a contaminant that is allowed in drinking water. MCL’s are set as close to the MCLG’s as feasible using the best available treatment technology.

Maximum contaminant level goal (MCLG) – the “Goal” is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLG’s allow for a margin of safety.

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.

During the period covered by this report we had below noted violations of drinking water regulations.

Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2007			

Our water system tested a minimum of 1 samples per month monthly sample(s) in accordance with the Total Coliform Rule for microbiological contaminants. During the monitoring period covered by this report, we had the following noted detections for microbiological contaminants:

Microbiological	Result	MCL	MCLG	Typical Source
No Detected Results were Found in the Calendar Year of 2007				

In the tables below, we have shown the regulated contaminants that were detected at levels BELOW their maximum contaminant level. These samples, except for Lead and Copper results and surface water systems, were collected at the raw water source and represent water before any treatment, blending or distribution. As such, the consumer tap levels could be less. Chemical Sampling of our drinking water may not be required on an annual basis; therefore, information provided in this table refers back to the latest year of chemical sampling results.

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
FLUORIDE	6/8/2005	0.8	0.8	ppm	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
THALLIUM, TOTAL	6/8/2005	1	1	ppb	2	0.5	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories
TURBIDITY	6/8/2005	0.18	0.18	NTU	1		Soil runoff

Lead and Copper	Date	90 <sup>TH</sup> Percentile	95 <sup>TH</sup> Percentile		Unit	AL	Sites Over AL	Typical Source
No Detected Results were Found in the Calendar Year of 2007								

Radionuclides	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
GROSS ALPHA PARTICLE ACTIVITY	6/8/2005	2	2	pCi/l	5		Erosion of natural deposits

DBP Contaminants	Monitoring Period	RAA	Range	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	1/1/2007 - 12/31/2007	25.9	25.9	ppb	60	0	By-product of drinking water disinfection
TTHM	1/1/2007 - 12/31/2007	22.2	22.2	ppb	80	0	By-product of drinking water chlorination

**+++++Environmental Protection Agency Required Health Effects Language+++++**

There are no additional required health effects notices.

There are no additional required health effects violation notices.

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Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all of our customers. Please call our office if you have questions.

We at the MANCHAC work around the clock to provide top quality drinking water to every tap. We ask that all our customers help us protect and conserve our water sources, which are the heart of our community, our way of life, and our children's future.

## 2007 Maximum Disinfectant Residual Reporting Requirements For Your CCR

For all systems which use either Chlorine, Chloramines, or Chlorine Dioxide as a disinfectant: *If your system's annual average disinfectant residual level exceeds its MRDL (See the MRDLs in the table below), you must report the annual average disinfectant residual level in the Contaminant Listing Table of your CCR as shown in the example below (the Copper result in the table below is just an example of any other contaminant that could appear in your table):*

<u>Contaminant</u>	<u>Date</u>	<u>Level</u>	<u>MCL</u>	<u>MCLG</u>	<u>Unit</u>
Copper	2/21/07	1.00	AL = 1.3	1.3	ppm

### Chloramines

Major Sources: Water additive used to control microbes.

3/02/07 Annual Ave. = 4.5 MRDL=4 MRDLG=4 ppm

### Chlorine

Major Sources: Water additive used to control microbes.

8/26/07 Annual Ave = 8.8 MRDL=4 MRDLG=4 ppm

### Chlorine Dioxide

Major Sources: Water additive used to control microbes.

9/13/07 Annual Ave. = 900 MRDL=800 MRDLG=800 ppb

*Also, if you exceed your disinfectant's MRDL, you must insert the following Health Effects Language in your report.*

For a Chloramine MRDL exceedance, the mandatory health effects language is:

"Some people who use water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia."

For a Chlorine MRDL exceedance, the mandatory health effects language is:

"Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort."

For a Chlorine Dioxide MRDL exceedance, the mandatory health effects language is:

"Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorine dioxide in excess of the MRDL. Some people may experience anemia."