

# Matagorda Dunes Water System

PWS ID: TX1610052



## Annual Water Quality Report 2018

### Message from Darrin Baker, President

Dear Corix Utilities Texas Customers,

I am pleased to share your Annual Water Quality Report for 2018. This report is designed to inform you of the quality of water we delivered to you over the past year. As your community water utility, we fully appreciate our role in the local community. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources.

Our team is committed to providing safe, reliable and cost effective service to our customers. All of our employees share in our commitment to act with integrity, protect the environment, and enhance the local community.

**We are proud to share this report which is based on water quality testing through December 2018. We continually strive to supply water that meets or exceeds all federal and state water quality regulations.**

Our dedicated local team of water quality experts is working in the community everyday ensuring that you, our customer, are our top priority and that we are providing the highest quality service - now and in the years to come.

Best regards,

*Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al teléfono (877) 718-4396.*

### Source of Drinking Water

The Matagorda Dunes Subdivision Water System gets its water from a well. It is considered a ground water source which draws water from an aquifer. An aquifer is a geological formation that contains water and this well draws water from the Chicot Aquifer. Water quality results from the well reveal that the drinking water supply is of good quality and just requires chlorination.

After pumping the water from the wells the water is then disinfected through a chlorination process to ensure the water is microbiologically safe (free from bacteria, viruses, and protozoan parasites). It is important to note that all drinking water contains some naturally occurring contaminants that are not harmful to our health. In fact, some minerals provide low levels of nutritional value and actually improve the taste of drinking water. After the drinking water has been thoroughly treated at the water treatment facility, we deliver it to homes and businesses through an underground network of pipes.

Individual homes use service lines to tap into larger, underground water main lines. The water is then passed through a water meter so that the amount of water the household uses can be accurately calculated. The water then flows throughout the home so whenever you turn on your faucet for a drink, you are assured clean, safe water for your entire family.

**We are pleased to report that our drinking water meets all federal and state requirements.**

### Help Protect our Resources

Help put a stop to the more than **1 trillion gallons of water lost annually** nationwide due to household leaks. These easy to fix leaks waste the average family the amount of water used to fill a backyard swimming pool each year. Plumbing leaks can run up your family's water bill an extra 10 percent or more, but chasing down these water and money wasting culprits is as easy as 1—2—3. Simply check, twist, and replace your way to fewer leaks and more water savings:

⇒ **Check** for silent leaks in the toilet with a few drops of food coloring in the tank, and check your sprinkler system for winter damage.

⇒ **Twist** faucet valves; tighten pipe connections; and secure your hose to the spigot. For additional savings, twist a WaterSense labeled aerator onto each bathroom faucet to save water without noticing a difference in flow. They can save a household more than 500 gallons each year—equivalent to the amount water used to shower 180 times!

⇒ **Replace** old plumbing fixtures and irrigation controllers that are wasting water with WaterSense labeled models that are independently certified to use 20 percent less water and perform well.

For more information visit [www.epa.gov/watersense](http://www.epa.gov/watersense).



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or search “MyUtilityConnect” in the App Store or Google Play Store

## EPA Wants You To Know

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 include:**

- A. **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- B. **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.
- C. **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- D. **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.
- E. **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.

## What measures are in place to ensure water is safe to drink?

In order to ensure that tap water is safe to drink, the EPA prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. 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.

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.

## Special notice from EPA for the elderly, infants, cancer patients and people with HIV/AIDS or other immune system problems

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; 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 at (800) 426-4791.

## Information Concerning Lead in Water

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. Corix Utilities (Texas) 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>.

Water that remains stationary within your home plumbing for extended periods of time can leach lead out of pipes joined with lead-containing solder as well as brass fixtures or galvanized pipes. Flushing fixtures has been found to be an effective means of reducing lead levels. The flushing process could take from 30 seconds to 2 minutes or longer until it becomes cold or reaches a steady temperature. Faucets, fittings, and valves, including those advertised as "lead-free," may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions. Visit the NSF Web site at [www.nsf.org](http://www.nsf.org) to learn more about lead-containing plumbing fixtures.

## Drain Disposal Information

Sewer overflows and backups can cause health hazards, damage home interiors, and threaten the environment. A common cause is sewer pipes blocked by grease, which gets into the sewer from household drains. Grease sticks to the insides of pipes. Over time, the grease can build up and block the entire pipe. Help solve the grease problem by keeping this material out of the sewer system in the first place:

- Never pour grease down sink drains or into toilets. Scrape grease into a can or trash.
- Put strainers in sink drains to catch food scraps / solids for disposal.

## Prescription Medication and Hazardous Waste

Household products such as paints, cleaners, oils, and pesticides, are considered to be household hazardous waste. Prescription and over-the-counter drugs poured down the sink or flushed down the toilet can pass through the wastewater treatment system and enter rivers and lakes (or leach into the ground and seep into groundwater in a septic system). Follow the directions for proper disposal procedures. **Do not flush hazardous waste or prescription and over-the-counter drugs down the toilet or drain.** They may flow downstream to serve as sources for community drinking water supplies. Many communities offer a variety of options for conveniently and safely managing these items. For more information, visit the EPA website at: [www.epa.gov/hw/household-hazardous-waste-hhw](http://www.epa.gov/hw/household-hazardous-waste-hhw).

**The Safe Drinking Water Act** was passed in 1974 due to congressional concerns about organic chemical contaminants in drinking water and the inefficient manner by which states supervised and monitored drinking water supplies. Congress' aim was to assure that all citizens served by public water systems would be provided high quality water. As a result, the EPA set enforceable standards for health-related drinking water contaminants. The Act also established programs to protect underground sources of drinking water from contamination.

**Understanding This Report** In order to help you understand this report, we want you to understand a few terms and abbreviations that are contained in it.

Action level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that 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.
EPA	Environmental Protection Agency.
Grains per gallon (gpg)	Unit of measure for water hardness, typically used by dishwasher and washing machine manufacturers.
Maximum contaminant level (MCL)	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 health risk. 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.
Not Applicable (N/A)	Information not applicable/ not required for that particular water system or for that particular Rule.
Not Detected (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.
Picocuries per liter (pCi/L)	A measure of radioactivity in the water.
Locational Running Annual Average (LRAA)	The average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.
Nephelometric Turbidity Units (NTU)	A measure of water clarity. Turbidity in excess of 5 NTU is just noticeable to the average person.
Treatment Technique (TT)	A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.
Level 1 Assessment	A study of the water system to identify potential problems to determine why total coliform bacteria was found.

**Water Loss**

During the water audit performed for calendar year 2015 it was determined that Matagorda Dunes Subdivision Water System had a water loss of 409,520 gallons. Corix Utilities (Texas) continues to work to reduce the water loss.

**Did You Know?**

- ◆ The average family of four uses 255 gallons of water a day, 1,785 gallons a week, and 7,650 gallons per month.
- ◆ A single toilet flush uses approximately 5-7 gallons of water.
- ◆ Taking a shower will use approximately 5-10 gallons per minute. A 15-minute shower will use 75-150 gallons.
- ◆ Your kitchen or bathroom sink uses approximately 4-5 gallons a minute.
- ◆ One dishwasher load uses approximately 4-5 gallons a minute.
- ◆ Washing clothes uses approximately 35 gallons per load.

[We ask that all our customers help us protect our water sources which are the heart of our community, our way of life and our children's future](#)

**Monitoring Your Water**

We routinely monitor for contaminants in your drinking water according to Federal and State laws. The following table(s) lists all the drinking water contaminants that were detected in the last round of sampling for the particular contaminant group.

The presence of contaminants does not necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in the table is from testing done January 1 through December 31, 2018.** The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, maybe more than one year old. *MCLs are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.*

**If You Have Questions Or Want To Get Involved**

Because Corix Utilities (Texas) is privately owned, there are no scheduled board meetings. This report is available to individual customers. For questions about the quality of our drinking water, or to obtain a copy of this report, contact Ms. Gloria Broussard at (877)718-4396 or visit us at [www.corixtexas.com](http://www.corixtexas.com).

**Violations**

In 2018, Matagorda Dunes Subdivision Water System performed all required monitoring for contaminants and was in compliance. Matagorda Dunes Subdivision received no violations from the Texas Commission on Environmental Quality.

## Water Quality Test Results

Contaminant and Unit of Measurement	Dates of sampling	Violation	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>							
Arsenic (ppb)	05/25/17	N	2.5	2.5 - 2.5	0	10	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium (ppm)	05/25/17	N	0.0516	0.0516 - 0.0516	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Fluoride (ppm)	05/29/18	N	1.19	1.19 - 1.19	4	4	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (ppm) (measured as Nitrogen)	05/29/18	N	0.04	0.04 - 0.04	10	10	Runoff from fertilizer use, Leaching from septic tanks; sewage; Erosion of natural deposits.
Nitrite (measures as Nitrogen) (ppm)	06/25/14	N	0.06	0.06 - 0.06	1	1	Runoff from fertilizer use; Leaching from septic tanks, sewage, Erosion of natural deposits.

### Stage 2 Disinfectants and Disinfection By-Products

Chloramines (ppm)	1/18 - 12/18	N	0.97	0.5 - 2.8	MRDLG =4	MRDL= 4.0	Water additive used to control microbes
Haloacetic Acids (HAA5) (ppb)	2018	N	69.1	9.1 - 69.1	N/A	60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	2018	N	266	7.6 - 266	N/A	80	By-product of drinking water disinfection
Chloroform (ppb)	05/29/18	N	48	48 - 48	N/A	N/A	Unregulated Contaminant
Bromodichloromethane (ppb)	05/29/18	N	72	72 - 72	N/A	N/A	Unregulated Contaminant
Dibromochloromethane (ppb)	5/29/18	N	97	97 - 97	N/A	N/A	Unregulated Contaminant
Bromoform (ppb)	5/29/18	N	33	33 - 33	N/A	N/A	Unregulated Contaminant
Dibromomethane (ppb)	5/29/18	N	<1.0	<1.0 - <1.0	N/A	N/A	Unregulated Contaminant

\*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.

\*For radioactive contaminants, inorganic contaminants, synthetic organic contaminants, and volatile organic contaminants the level detected is the highest average at any of the sampling points or the highest detected level at any sampling point, depending on the sampling frequency. For Chloramines, the level detected is the average of all samples collected.

\*For HAA5 and TTHM, the level detected is the highest locational running annual average (LRAA). One sample out of the 3 quarters of TTHM and HAA5 samples collected in 2018 had elevated levels. The LRAA calculation is based on 4 quarters of results. The system remains in compliance. *Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer. Some people who drink water containing HAAs in excess of the MCL over many years may have an increased risk of getting cancer.*

### Lead and Copper Contaminants

Contaminant and Unit of Measurement	Date of sampling	Violation	90th Percentile	Number of Sites Exceeding AL	MCLG	AL	Likely Source of Contamination
Lead (ppb)	2018	N	12	1	0	15	Corrosion of household plumbing systems; Erosion of natural deposits.
Copper (ppm)	2018	N	1.3	1	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

*Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.*

*Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.*

### 2018 Coliform Bacteria

Parameter	Number of Positive Samples	Highest Monthly Number of Positive Samples	MCLG	Source of Contaminant
Total Coliform	3	1	0	Naturally present in the environment
Escherichia Coli (E. Coli)	0	0	0	Human and animal fecal waste

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct an assessment to identify problems and to correct any problems that were found during the assessment. During the past year we were required to conduct one Level 1 Assessment. One Level 1 Assessment was completed. In addition, we were required to take two corrective actions and we completed two of these actions. No issues were found with the water. Sample bottle storage was corrected and bottle storage procedures were reviewed.

Groundwater source sample was fecal indicator-positive on January 29th, 2018. Following the positive result, the well was disinfected with liquid chlorine and a sample was taken. The sample showed negative for both coliform and Escherichia coli. The well was returned to service.

### Other Water Quality Information

Parameter	Results	Source of Contaminant
Hardness	25.3 ppm or 1.48 gpg	This is considered hard water.
Sodium	345 ppm	An 8 ounce glass of water is considered low sodium.