



PWS# 0290065

EXCELLENCE IN WATER QUALITY

Port O'Connor Improvement District 361-983-2652

GBRA Water Treatment Plant 361-552-9751

Dear Customer,

The Port O'Connor Improvement District (POCID) is pleased to provide you with the 2020 Water Quality Report (January 1-December 31, 2020). We take all possible precautions to safeguard your water supply and hope you will be encouraged to learn about the high quality of water provided to you.

The federal Safe Drinking Water Act (SDWA) requires water utilities to issue an annual report to customers, in addition to other notices that may be required by law. This report explains where your drinking water comes from, what it contains, and the health risks our water testing and treatment are designed to prevent.

We are committed to providing you with information about your water supply because informed customers are our best allies in supporting improvements needed to maintain the highest drinking water standards.

We are proud to report that the Texas Commission on Environmental Quality (TCEQ) has assessed our system and determined that your drinking water, provided by the Port O'Connor Improvement District through the Guadalupe-Blanco River Authority's surface water treatment plant, meets or exceeds all federal and state water quality standards.

The tables on this report list all substances that were detected in our treated water, and the highest level at which they were detected. The tables also reflect the highest levels allowed by federal regulatory agencies. Please read this information carefully and if you have questions, call the numbers listed in this report. An electronic version of this report can be found at www.gbra.org/documents/publications/ccrs/2020/PortOConnor.pdf

Customer Views Welcome

The POCID strongly supports the national primary water regulation compliance process. If you are interested in learning more about the water department, water quality, or participating in the decision-making process, there are a number of opportunities available.

Questions about water quality can be answered by calling the Improvement District at 361-983-2652 from 8 am -5 pm, Monday through Friday. Inquiries about public participation and policy decisions should be directed to the District office in Port O'Connor at 39 Denman Dr., Box 375, Port O'Connor, Texas 77982. The District Directors hold their monthly meeting the third Tuesday of each month at 6:00 pm.

En Español

Este informe incluye information importante sobre el agua potable. Si tiene preguntas o commentarios sobre este informe en Espanol, favor de llamar al tel. 361-983-2652 para hablar con una personal bilingue en espanol durante las horas regulares de oficina (8 am - 5 pm).



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 EPAs 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).

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 or at http://www.epa.gov/safewater/lead.

Where Do We Get Our Drinking Water?

POCID received its water from surface water diverted from the Guadalupe River and treated at the GBRA Port Lavaca Water Treatment Plant operated by the Guadalupe-Blanco River Authority (GBRA).

A Source Water Susceptibility Assessment for your drinking water source was conducted by TCEQ in 2004. This report describes the susceptibility and types of constituents that may come into contact with the drinking water source based on human activities and natural conditions. The system from which we purchase our water received the assessment report. For more information on source water assessments and protection efforts at our system contact GBRA Water Treatment Plant at 361-552-9751.

Trained operators monitor and test the water, including the addition of fluoride and chloramine, to ensure that our water meets or exceeds all state and federal drinking water standards. The treated water is delivered to the District's water storage tanks and delivered through its distribution system to you. For information on the treatment of your drinking water and water quality protection efforts, contact the GBRA Port Lavaca Water Treatment Plant at 361-552-9751.

What We Found

The following tables list the contaminants that have been found in your drinking water. USEPA requires water systems to test for more than 97 contaminants. The column marked "Highest Level at Any Sampling Point" shows the highest test results during the year. The "Source of Contaminant" column shows where the substance usually originates.

DEFINITIONS and ABREVIATIONS

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.

Avg – Regulatory compliance with some MCL's are based on running annual average of monthly samples.

Maximum Contaminant Level (MCL) – the highest level of the contaminant 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 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 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.

NA – Not Applicable

ND – Not Detected

NTU's – Nephelometric Turbidity Units

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

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

ppb – parts per billion (ug/L)

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.



WATER QUALITY 2020

TABLE I - Test results for the GBRA water supply to Port O'Connor Improvement District (Sampled at the GBRA Water Treatment Plant)

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Year	Detected	Measured	Number	MCL	MCLG	Units of	Violation	Source of Constituent
	Constituent	Concentration	of			Measure		
			Analyses					
Inorganic	s							
2020	Barium	0.107	1	2	2	ppm	Ν	Discharge of drilling wastes; erosion of natural deposits.
2018	Chromium	ND	1	100	100	ppb	Ν	Discharge from steel and pulp mills; erosion of natural deposits.
2020	Fluoride	0.73	1	4	4	ppm	Ν	Erosion of natural deposits; water additive which promotes strong teeth; runoff from
								fertilizer use.
2020	Nitrate	0.21	1	10	10	ppm	Ν	Runoff from fertilizer use; leaching from septic tanks; treated wastewater effluent;
								erosion of natural deposits.
2017	Gross Beta	5.6	1	50	0	pCi/I	Ν	Decay of mineral and man-made deposits.
	Emitters							

Organics

e. gamee									
Year	Detected	Concentration	Number of	MCL	MCLG	Unit of	Violation	Source of Constituent	
	Constituent	Detected	Analyses			M easure			
2020	Atrazine	0.11	1	3	3	ppb	N	Runoff from herbicide used on row crops.	

Unregulated Contaminants

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. Any unregulated contaminants detected are reported in the following table. For additional information and data

visit http://www.epa.gov/safewater/ucmr/ucmr2/index.html, or call the Safe Drinking Water Hotline at (800) 426-4791.

Year	Constituent	Average Concentration	Rangeof	Reason for Monitoring
		of Analysis	Detected Levels	
Trihalometh	anes			
2020	Chloroform	13.8	6.8 - 21.3	Monitoring helps EPA to determine where certain contaminants occur and whether it needs
2020	Bromoform	6.74	4.0 - 10.5	to regulate those contaminants.
2020	Bromodichlormethane	22.7	14.4 - 32.4	
2020	Chlorodibromomethane	26.1	17.0 - 37.7	
Haloacetic A	Acids			
2020	Chloroacetic acid	ND	ND	Monitoring helps EPA to determine where certain contaminants occur and whether it needs
2020	Dichloroacetic acid	9.9	6.8 - 15.8	to regulate those contaminants.
2020	Trichloroacetic acid	4.35	2.6 - 7.2	
2020	Bromoacetic acid	ND	ND	
2020	Dibromoacetic acid	5.95	4.0 - 7.3	
2020	Bromochloroacetic acid	8.9	6.6 - 12.3	

Disinfection Byproducts

Year	Constituent	Average level	M inimum level	M aximum level	MCL	Unit of Measure	Violation	Source of Contaminant
2020	Total Haloacetic Acids	20.2	14.4	30.3	60	ppb	N	Byproduct of drinking water disinfection.
2020	Total Trihalomethanes	67.6	43.8	97	80	ppb	N	Byproduct of drinking water disinfection.

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	Detected Constituent	Highest Single Measurement	Lowest Monthly %of Samples	Turbidity Limits	Unit of Measure	Violation	Source of Constituent	
			Meeting Limits					
2020	Turbidity	0.26	100	0.3	NTU	Ν	Organic particles.	

TOC (Total Organic Carbon)

Total organic carbon (TOC) has no health effects. The disinfectant can combine with TOC to form disinfection byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes (THMs) and haloacetic acids (HAA) which are reported elsewhere in this report.

Year	Detected	Average	Lowest	Highest	Units of	Source of Constituent
	Constituent	M easurement	M easurement	Measurement	M easurement	
2020	Source Water TOC	3.12	2.06	6.17	ppm	Naturally occurring and there are no health effects directly associated with it.
2020	Drinking Water TOC	1.94	1.44	3.26	ppm	Naturally occurring and there are no health effects directly associated with it.
2020	Removal Ratio	2.32	1.55	2.83	%	NA

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Disinfectant Residuals

Year	Constituent	Highest Average	Range of Detects	MRDL	MCLG	Units	Violation	Source of Constituent	
2020	Chloramines	3.61	0.9 - 4.5	4	4	ppm	Ν	Disinfectant used to control microbes	
TOTAL COLIFORM Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms, their absence from water is a good indication that the water is microbiologically safe for human consumption.									
2020 TOTAL 2020 E.coli	-	REPORTED N	ONTHLY TESTS FOUN	ID NO COLIFO	RM BACTERIA		n water is a good indication	on that the water is microbiologically safe for human consumption.	
Violations									

No Violations

Table II - Tests results for Port O'Connor Improvement District customers (As sampled in the Port O'Connor distribution system)

Inorganics

		Detected	Analysis			Measure		
2020 G	Fross Alpha	3.1	1	5	NA	ppm	Ν	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2020 Nitr	rogen, Nitrate	1.5	4	10	10	ppm	Ν	Runoff from fertilizer use; leeching from septic tanks; treated wastewater
								effluent; erosion of natural deposits.

Lead and Copper (Analyzed every 3 years)

Year	Detected	The 90th	Number of Sites	Action Level	Unit of	Violation	Source of Constituent
	Constituent	Percentile	Exceeding Action		Measure		
2020	Lead	0.735	0	15	ppb	Ν	Corrosion of house hold plumbing systems; erosion of natural deposits
2020	Copper	0.221	0	1.3	ppm	N	Corrosion of house hold plumbing systems; erosion of natural deposits

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.

Maximum Residual Disinfectant Level

Systems must complete and submit disinfection data on the Surface Water Monthly Operations Report (SWM OR). On the CCR report, the system must provide disinfectant type, minimum, maximum, and average levels

		Average	M inimum	Maximum	MRDL	Unit of	Violation	Source of Constituent
		level	level	level		M easure		
2020 C	Chloramine Residual	1.81	0.5	4	4	ppm	Ν	Disinfectant used to control microbes.
otal Trihalo	methanes							
Year D	Detected	Highest Level	Range of	MCL	MCLG	Unit of	Violation	Source of Constituent
С	Constituent	Detected	Detected			M easure		
			Levels					
Te	Fotal							
2020 T	Frihalo met hanes	57.1	41.3 - 83.2	80	No Goal	ppb	N	By-product of drinking water chlorination.

		5						
	Constituent	Detected	Detected			Measure		
			Levels					
2020	Total							
	Haloacetic Acids	20.7	16.2 - 30.4	60	No Goal	ppb	Ν	By-product of drinking water chlorination.

Total Coliform

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not disease-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms, therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Total Coliform	REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA.
Fecal Coliform	REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

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Violations Table								
Lead and Copper Rule								
The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity.								
Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.								
Violation Type	Violation Begin	Violation End	Violation Explanation					
Lead Consumer Notice (LCR)	12/30/2019	3/16/2020	We failed to provide the results of the lead tap water monitoring to the consumers at the location water was tested.					
			These were supposed to be provided no later than 30 days after learning the results.					
Follow Up Routine Tap	1/1/2020	12/31/2020	Follow up or Routine Tap (Minor/Routine) Lead and Copper Rule					

Water Loss for the Port O'Connor Improvement District. 28.362 MG (million gallons) for the year or 21.0 %

Secondary and Other Constituents Not Regulated

(No associated adverse health effects)

Year	Constituent	Measured Concentration	Number of Analyses	Secondary Limit	Unit of Measure	Source of Constituent
2020	Aluminum	44.7	1	50	ppb	Abundant naturally occurring element
2020	Asrsenic	0.0022	1	0.01	ppm	
2020	Bicarbonate	311	1	NA	ppm	Corrosion of carbonate rocks such as limestone.
2020	Calcium	56.9	1	NA	ppm	Abundant naturally occurring element.
2020	Chloride	235	1	250	ppm	Abundant naturally occurring element, used in water purification, byproduct of oil field activity.
2020	Copper	0.0421	1	NA	ppm	Corrosion of household plumbing systems; erosion from natural deposits; leeching from wood preservatives.
2020	Hardness as Ca/M g	214	1	NA	ppm	Naturally occurring calcium and magnesium.
2020	Magnesium	17.5	1	NA	ppm	Abundant naturally occurring element.
2019	pН	7.0	1	7	units	Measure of corrosivity of water.
2020	Nickel	0.002	1	0.1	ppm	
2020	Sodium	199	2	NA	ppm	Erosion of natural deposits. Byproduct of oil field activity.
2020	Zinc	ND	1	5	ppm	
2020	Sulfate Total Alkalinity	78	1	300	ppm	Naturally occurring, common industrial byproduct, byproduct of oil field activity.
2020	as CaCO3	255	1	NA	ppm	Naturally occurring soluble mineral salts.
	Total Dissolved					
2020	Solids	255	1	1000	ppm	Total dissolved mineral constituents in water.
2020	Potassium	5.62	1	NA	ppm	
2020	Iron	0.024	1	NA	ppm	Abundant naturally occurring element.

