



North Alamo Water Supply Corp.
Public Water System ID# TX1080029
North Alamo WSC is Surface Water

January 1 to December 31, 21017

ANNUAL DRINKING WATER QUALITY REPORT 2017



420 South Doolittle Rd
Edinburg Texas 78542

Office (956) 383-1618
Fax (956) 383-1372

www.nawsc.com



MISSION STATEMENT

is to provide the highest quality of water, and wastewater service, with adequate flow and pressure, for the lowest possible price

For More Information regarding this report contact:

North Alamo WSC

(956) 383-1618

Este reporte incluye informacion importante sobre el agua para tomar. Para asistencia en espanol, favor de llamar al telefono.



**Texas Commission on
Environmental Quality**



General Information

NORTH ALAMO WSC provides surface water and ground water from the Rio Grande located in Gulf Coast.

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 EPA's 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 Contaminant,

Including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas station, 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 cause 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).

The TCEQ completed an assessment of your source water and results indicate that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections of this contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our system.

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>.

Information about Source Water Assessments

A Source Water Susceptibility Assessment for your drinking water source(s) is currently being updated by the Texas Commission on Environmental Quality. This information describes 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 allows us to focus source water protection strategies.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL:

<http://gis3.tceq.state.tx.us/swav/Controller/index/jsp?wtrsrc=>

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <http://dww.tceq.texas.gov/DWW>

Source Water Name		Type of Water	Report Status	Location
1-Lasara	Lasara	GW	A	6606 Hwy 186 Raymondville Texas
2-Owassa/Shallow	Owassa Shallow	GW	A	1108 E Owassa Rd San Juan Texas
3-Doolittle/Shallow	Doolittle	GW	A	420 S Doolittle Rd Edinburg Texas
4-Doolittle/Deep	Doolittle/Deep	GW	A	6031 N Victoria Rd Donna Texas
5-Donna 1	6031 Victoria Rd	GW		6031 N Victoria Rd Donna Texas
GW-North Cameron Regional WSC	CC From TX0310152 North	GW	A	14995 State Hwy 107 Harlingen Texas
In Take 1		SW	A	425 S Doolittle Rd Edinburg Texas
In Take 2		SW	A	2124 W FM 2812 Edinburg Texas
In Take 4		SW	A	1112 E Owassa Rd San Juan, Texas
In Take 5		SW	A	6031 N Victoria Rd Donna Texas
In Take 6		SW	A	8550 Garcia St Monte Alto Texas
In Take 7 (Delta)		SW	A	7635 Monte Cristo Rd Edcouch Texas
SW/GW-City of Mercedes	CC from TX 1080007 City of	SW	A	

Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No of Positive E.coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	5% of monthly samples are positive.	0.8		0	N	Naturally present in the environment.

Turbidity	Level Detected	Limit (Treatment Technique)	Violation	Likely Source of Contamination
Highest single measurement	0.7 NTU	1 NTU	N	Soil runoff.
Lowest monthly % meeting limit	100%	0.3 NTU	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration

Lead and Copper								
Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violations	Likely Source of Contamination
Copper	6-6-2016	1.3	1.3	0.189	0	Ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	6-6-2016	0	15	3.01	2	Ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Water Quality Test Results

Definition and Abbreviations:	The following tables contain scientific terms and measures, some of which may require explanation.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Action Level:	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which 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.
Maximum Contaminant Level or 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.
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.
Maximum Contaminant Level Goal or MCLG	The level of a contaminant in drinking water below which there is no know or expected risk to health. MCLGs allow for a margin of safety.
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.
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.
MFL:	million fibers per liter (a measure of asbestos)
na:	not applicable
Mrem:	Millirems per year (a measure of radiation absorbed by the body)
NTU:	nephelometric turbidity units (a measure of turbidity)
pCi/L:	picocuries per liter (a measure of radioactivity)
ppb:	micrograms per liter or parts per billion– or one ounce in 7,350 gallons of water.
ppm:	milligrams per litter or parts per million– or one ounce in 7,350 gallons of water.
Treatment Technique or TT:	A required process intended to reduce the level of a contaminant in drinking water
ppt:	parts per trillion, or nanograms per liter (ng/L)
ppq:	parts per quadrillion, or picograms per liter (pg/L)

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

REGULATED CONTAMINANTS

Disinfection By-Products	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorite	2017	.66	0-0.66	0.8	1	Ppm	N	By-Product of drinking water disinfection.
Haloacetic Acids (HAA5)	2017	39	1.4-57.7	No goal for the total	60	Ppb	N	By-product of drinking water disinfection.
**The value in the Highest level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year'								
Total Trihalomethanes (TTHm)	2017	95	0-158	No goal for the total	80	Ppb	N	By-product of drinking water disinfection.
**The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year'								

INORGANIC CONTAMINANTS	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2017	3	0-3	0	10	Ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2017	0.128	0.0533-0.128	2	2	Ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Cyanide	2016	130	20-130	200	200	ppb	N	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories.
Fluoride	2017	0.7	0.28-0.69	4	4.0	Ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate [measured as Nitrogen]	2017	0.34	0.07-0.34	10	10	Ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite [measured as Nitrogen]	12-9-2014	0.03	0.03-0.03	1	1	Ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Selenium	2017	10	0-5.1	50	50	Ppb	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines.
Radioactive Contaminants	Collection Date	Highest Level or Average Detected	Range of Individual Samples	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/pholon emitters	2017	8.6	0-8.6	0	4	Mrem/yr	N	Decay of natural and man-made deposits.

*EPA considers 50 pCi/L to be the level of concern for beta particles.

Combined Radium 226/228	2017	1.5	1.5—1.5	0	5	pCi/L	N	Erosion of natural deposits.
Uranium	2017	2.2	0-2.2	0	30	Ug/l	N	Erosion of natural deposits.

Disinfectant Residual								
Disinfectant Residual	Year	Average Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Violation	Source in Drinking Water
	2017			4	4		ppm	Water Additive used to control microbes.

Violations			
Total Trihalomethanes (TTHM)			
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.			
Violation Type	Violation Begin	Violation End	Violation Explanation
MCL, LRAA	7-1-17	9-30-17	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL)
MCL, LRAA	10-1-17	12-31-17	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL)