# 2021 Consumer Confidence Report for Public Water System NAVARRO MILLS WSC

This is your water quality report for January 1 to December 31, 2021

NAVARRO MILLS WSC provides surface water and ground water from **Navarro Mills Resevoir and the Trinity Aquifer** located in Navarro County.

For more information regarding this report contact:

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Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, f avor de llamar al telefono (254) 578-1618.

## Definitions and Abbreviations

| | |
|---|---|
| Definitions and Abbreviations | The following tables contain scientific terms and measures, some of which may require explanation. |
| Action Level: | The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. |
| Avg: | Regulatory compliance with some MCLs are based on running annual average of monthly samples. |
| 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 fou nd 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. |
| 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 t echnology. |
| Maximum Contaminant Level Goal or MCLG: | The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs 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 micro bial contaminants. |
| Maximum residual disinfectant level goal or MRDL G: | 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 disi nfectants to control microbial contaminants. |
| MFL | million fibers per liter (a measure of asbestos) |
| mrem: | millirems per year (a measure of radiation absorbed by the body) |
| na: | not applicable. |
| NTU | nephelometric turbidity units (a measure of turbidity) |
| pCi/L | picocuries per liter (a measure of radioactivity) |

**Definitions and Abbreviations**

| | |
|---|---|
| ppb: | micrograms per liter or parts per billion |
| ppm: | milligrams per liter or parts per million |
| ppq | parts per quadrillion, or picograms per liter (pg/L) |
| ppt | parts per trillion, or nanograms per liter (ng/L) |
| Treatment Technique or TT: | A required process intended to reduce the level of a contaminant in drinking water. |

## 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 surf ace 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 wildl ife.

- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater dis charges, 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 syste ms. 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 concer ns. 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 i mmunocompromised persons such as those undergoing chemotherapy for cancer; persons who have undergone organ transplants; those who are undergoing trea tment 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 m aterials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the v ariety 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 tes ted. 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

NAVARRO MILLS WSC purchases water from CITY OF CORSICANA. CITY OF CORSICANA provides purchase surface water from **Navarro Mills Resevoir** located in **Navarro County**. The following pages are from the CITY OF CORSICANA:

# Detected Regulated Contaminates for 2021

EP2 Lake Halbert

| SOC Pesticide | Detected Quantity | MCL | Date Collected | Analytical Method |
|---|---|---|---|---|
| Atrazine | 0.1 ug/l | N/A | 1/14/2021 | E525.2 GC/MS |

| VOC's | Detected Quantity | MC/L | Date Collected | Analytical Method |
|---|---|---|---|---|
| Acetone | < 5.00 ug/l | N/A | 7/14/2021 | E524.2 GC/MS |
| Cholroform | 21.4 ug/l | N/A | 7/14/2021 | E524.2 GC/MS |
| Bromodichloromethane | 15.9 ug/l | N/A | 7/14/2021 | E524.2 GC/MS |
| Dibromochloromethane | 5.95 ug/l | N/A | 7/14/2021 | E524.2 GC/MS |

| Inorganics | | | | |
|---|---|---|---|---|
| Chloride | 10.6 mg/l | 300.0 mg/l | 1/14/2021 | E300.0 Anions |
| Fluoride | 0.384 mg/l | 4.0 mg/l | 1/14/2021 | E300.0 Anions |
| Nitrate (as N) | 0.187 mg/l | 10.0 mg/l | 1/14/2021 | E300.0 Anions |
| Sulfate | 68.8 mg/l | 300.0 mg/l | 1/14/2021 | E300.0 Anions |

| | | | | |
|---|---|---|---|---|
| Total Dissolved Solids | 244 mg/l | 1000.0 mg/l | 1/14/2021 | SM2540C |

| Inorganics<br>Metals Trace Elements | | | | |
|---|---|---|---|---|
| Calcium Total | 35.2 mg/l | N/A | 1/14/2021 | E200.7 Metals, Trace |
| Potassium Total | 4.22 mg/l | N/A | 1/14/2021 | E200.7 Metals, Trace |
| Magnesium Total | 4.62 mg/l | N/A | 1/14/2021 | E200.7 Metals, Trace |
| Sodium Total | 21.2 mg/l | N/A | 1/14/2021 | E200.7 Metals, Trace |

| E200.8 ICP-MS | | | | |
|---|---|---|---|---|
| Aluminum Total | 0.029 mg/l | 0.2 mg/l | 1/14/2021 | E200.8 IC-MS |
| Barium Total | 0.045 mg/l | 2.0 mg/l | 1/14/2021 | E200.8 IC-MS |
| Chromium Total | .0010 mg/l | 1.3 mg/l | 1/14/2021 | E200.8 IC-MS |
| Copper Total | .0012 mg/l | 1.3 mg/l | 1/14/2021 | E200.8 IC-MS |

**DEFINITIONS**

| | |
|---|---|
| ug/l | parts per billion or micrograms per liter |
| mg/l | parts per million or milligrams per liter |

**Only contaminants at detectable level reported**

# Detected Regulated Contaminates for 2021

EP 1 Navarro Mills

| SOC Pesticide | Detected Quantity | MCL | Date Collected | Analytical Method |
|---|---|---|---|---|
| Atrazine | 0.5 ug/l | N/A | 1/14/2021 | E525.2 GC/MS |
| Metolachlor | 0.1 ug/l | N/A | 1/14/2021 | E525.2 GC/MS |
| | | | | |
| VOC's | | | | |
| Acetone | < 5.00 ug/l | N/A | 9/16/2021 | E524.2 GC/MS |
| Cholroform | 18.9 ug/l | N/A | 9/16/2021 | E524.2 GC/MS |
| Bromodichloromethane | 17.1 ug/l | N/A | 9/16/2021 | E524.2 GC/MS |
| Dibromochloromethane | 7.49 ug/l | N/A | 9/16/2021 | E524.2 GC/MS |
| | | | | |
| Inorganics | | | | |
| Chloride | 10.8 mg/l | 300.0 mg/l | 1/14/2021 | E300.0 Anions |
| Fluoride | 0.612 mg/l | 4.0 mg/l | 1/14/2021 | E300.0 Anions |
| Nitrate (as N) | 0.602 mg/l | 10.0 mg/l | 1/14/2021 | E300.0 Anions |
| Sulfate | 49.4 mg/l | 300.0 mg/l | 1/14/2021 | E300.0 Anions |
| | | | | |
| Total Dissolved Solids | 194 mg/l | 1000.0 mg/l | 1/14/2021 | SM2540C |
| | | | | |
| Inorganics<br>Metals Trace Elements | | | | |
| Calcium | 43.2 mg/l | 20,000.0 mg/l | 1/14/2021 | E200.7 Metals, Trace |
| Magnesium | 2.85 mg/l | 20,000.0 mg/l | 1/14/2021 | E200.7 Metals, Trace |
| Potassium | 3.92 mg/l | 20,000.0 mg/l | 1/14/2021 | E200.7 Metals, Trace |
| Sodium Total | 18.9 mg/l | 20,000.0 mg/l | 1/14/2021 | E200.7 Metals, Trace |
| | | | | |
| E200.8 ICP-MS | | | | |
| Aluminum Total | 0.023 mg/l | 0.2 mg/l | 1/14/2021 | E200.8 IC-MS |
| Barium Total | 0.044 mg/l | 2.0 mg/l | 1/14/2021 | E200.8 IC-MS |
| Chromium | 0.0012 mg/l | 1.3 mg/l AL | 1/14/2021 | E200.8 IC-MS |
| Copper Total | 0.0049 mg/l | 1.3 mg/l AL | 1/14/2021 | E200.8 IC-MS |
| Manganese Total | 0.0042 mg/l | 0.05 mg/l | 1/14/2021 | E200.8 IC-MS |
| Nickel Total | 0.0011 mg/l | .1 mg/l | 1/14/2021 | E200.8 IC-MS |

**DEFINITIONS**

| | |
|---|---|
| ug/l | parts per billion or micrograms per liter |
| mg/l | parts per million or milligrams per liter |

Average Chlorine Residual
2021

| Month | Average Residual (mg/L) |
|---|---|
| January | 2.12 |
| February | 2.12 |
| March | 2.08 |
| April | 2.09 |
| May | 2.33 |
| June | 1.95 |
| July | 1.93 |
| August | 1.99 |
| September | 2 |
| October | 2.16 |
| November | 2.27 |
| December | 2.25 |
| 2021 Yearly Average | 2.11 mg/L |

| | |
|---|---|
| Min reading | 0.5 mg/l |
| Max Reading | 3.6 mg/l |

## TTHM's 2021

| **Date of Samples** | **1/14/2021** | **4/5/2021** | **7/14/2021** | **11/18/2021** | |
|---|---|---|---|---|---|
| Address of Sample | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Average of Quarters |
| 4501 E HWY 31 | 28.0 | 42.8 | 45.9 | 38.4 | 38.8 |
| 2117 W 15th Ave | 33.5 | 41.3 | 61.5 | 47.6 | 46.0 |
| 3500 Northpark | 32.6 | 44.4 | 64.0 | 49.1 | 47.5 |
| 700 E 16th Ave | 32.7 | 42.7 | 51.6 | 45.9 | 43.2 |
| **Average for each quarter** | 31.7 | 42.8 | 55.8 | 45.3 | 43.9 |

## Haa5's 2021

| **Date of Samples** | **1/14/2021** | **4/5/2021** | **7/14/2021** | **11/18/2021** | |
|---|---|---|---|---|---|
| Address of Sample | 1st Quarter | 2nd Quarter | 3rd Quarter | 4th Quarter | Average of Quarters |
| 4501 E HWY 31 | 18.6 | 23.3 | 27.0 | 14.0 | 20.7 |
| 2117 W 15th Ave | 15.3 | 14.1 | 32.9 | 20.0 | 20.6 |
| 3500 Northpark | 16.5 | 16.6 | 26.9 | 19.0 | 19.8 |
| 700 E 16th Ave | 15.0 | 17.0 | 23.8 | 13.0 | 17.2 |
| **Average for each quarter** | 16.4 | 17.8 | 27.7 | 16.5 | 19.6 |

# Turbidity and TOC 2021

## Navarro Mills

| | NTU | | | TOC | | | |
|---|---|---|---|---|---|---|---|
| Month | Average | Highest | % Compliance | Raw TOC | Tap TOC | % Removal | % Compliance |
| Jan | 0.05 | 0.11 | 100 | 4.00 | 2.91 | 27.3 | 109 |
| Feb | 0.07 | 0.13 | 100 | 4.36 | 3.17 | 27.3 | 131 |
| Mar | 0.07 | 0.16 | 100 | 4.00 | 3.19 | 20.3 | 100 |
| Apr | 0.08 | 0.12 | 100 | 3.77 | 3.18 | 15.6 | 104 |
| May | 0.06 | 0.15 | 100 | 3.88 | 2.69 | 30.7 | 204 |
| Jun | 0.08 | 0.14 | 100 | 3.54 | 2.76 | 22.0 | 88 |
| Jul | 0.05 | 0.09 | 100 | 4.20 | 2.88 | 31.4 | 126 |
| Aug | 0.06 | 0.13 | 100 | 4.26 | 2.94 | 31.0 | 106 |
| Sep | 0.06 | 0.14 | 100 | 3.99 | 2.98 | 25.3 | 101 |
| Oct | 0.07 | 0.12 | 100 | 4.01 | 3.00 | 25.2 | 100 |
| Nov | 0.06 | 0.13 | 100 | 3.97 | 2.84 | 28.5 | 114 |
| Dec | 0.07 | 0.14 | 100 | 3.92 | 2.82 | 28.1 | 112 |
| Average | 0.07 | | | 3.99 | 2.95 | 26.0 | 116.3 |

| | NTU | Raw TOC | Tap TOC | % Removal |
|---|---|---|---|---|
| Average Both Plants | 0.06 | 4.09 | 2.89 | 29.4 |

## Lake Halbert

| | NTU | | | TOC | | | |
|---|---|---|---|---|---|---|---|
| Month | Average | Highest | % Compliance | Raw TOC | Tap TOC | % Removal | % Compliance |
| Jan | 0.05 | 0.11 | 100 | 3.89 | 2.60 | 33.2 | 133 |
| Feb | 0.06 | 0.16 | 100 | 4.71 | 2.97 | 36.9 | 106 |
| Mar | 0.06 | 0.09 | 100 | 4.70 | 3.34 | 28.9 | 83 |
| Apr | 0.07 | 0.10 | 100 | 4.65 | 3.33 | 28.4 | 100 |
| May | 0.05 | 0.11 | 100 | 3.62 | 2.44 | 32.6 | 130 |
| Jun | 0.04 | 0.09 | 100 | 3.40 | 2.34 | 31.2 | 125 |
| Jul | 0.03 | 0.09 | 100 | 4.05 | 2.46 | 39.3 | 112 |
| Aug | 0.04 | 0.08 | 100 | 4.37 | 2.80 | 35.9 | 103 |
| Sep | 0.04 | 0.08 | 100 | 4.25 | 2.82 | 33.6 | 100 |
| Oct | 0.04 | 0.10 | 100 | 3.92 | 2.58 | 34.2 | 137 |
| Nov | 0.03 | 0.09 | 100 | 3.74 | 2.41 | 35.6 | 142 |
| Dec | 0.07 | 0.15 | 100 | 4.90 | 3.81 | 22.2 | 100 |
| | 0.05 | | | 4.18 | 2.83 | 32.7 | 114.3 |

TOC % compliance is based on compliance with the TCEQ rules on TOC removal. Plants must meet or exceed 100% compliance based on a running quarterly average.

No Source Water Assessment for your drinking water source(s) has been conducted by the TCEQ for your water system. The report describes the susceptibility and the types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment allows us to focus our source water protection strategies.

| Lead and Copper | Date Sampled | MCLG | Action Level (AL) | 90th Percentile | # Sites Over AL | Units | Violation | Likely Source of Contamination |
|---|---|---|---|---|---|---|---|---|
| Copper | 09/14/2020 | 1.3 | 1.3 | 0.18 | 1 | ppm | N | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. |
| Lead | 09/14/2020 | 0 | 15 | 1.3 | 0 | ppb | N | Corrosion of household plumbing systems; Erosion of natural deposits. |

# 2021 Water Quality Test Results

| Disinfection By-Products | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|---|---|---|---|---|---|---|---|---|
| Haloacetic Acids (HAA5) | 2021 | 23 | 2.4 - 65.1 | 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) | 2021 | 78 | 24.6 - 224 | 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 Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|---|---|---|---|---|---|---|---|---|
| Barium | 2021 | 0.039 | 0.039 - 0.039 | 2 | 2 | ppm | N | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits. |
| Chromium | 2021 | 3.7 | 3.7 - 3.7 | 100 | 100 | ppb | N | Discharge from steel and pulp mills; Erosion of natural deposits. |
| Cyanide | 2021 | 126 | 126 - 126 | 200 | 200 | ppb | N | Discharge from plastic and fertilizer factories; Discharge from steel/metal factories. |
| Fluoride | 2021 | 1.8 | 1.77 - 1.77 | 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] | 2021 | 0.416 | 0.0231 - 0.416 | 10 | 10 | ppm | N | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. |

| Radioactive Contaminants | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|---|---|---|---|---|---|---|---|---|
| Beta/photon emitters | 01/29/2020 | 4.7 | 4.7 - 4.7 | 0 | 50 | pCi/L* | N | Decay of natural and man-made deposits. |

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

| Synthetic organic contaminants including pesticides and herbicides | Collection Date | Highest Level Detected | Range of Individual Samples | MCLG | MCL | Units | Violation | Likely Source of Contamination |
|---|---|---|---|---|---|---|---|---|
| Atrazine | 2021 | 0.5 | 0.5 - 0.5 | 3 | 3 | ppb | N | Runoff from herbicide used on row crops. |

## Disinfectant Residual

**A blank disinfectant residual table has been added to the CCR template, you will need to add data to the fields. Your data can be taken off the Disinfectant Level Quarterly Operating Reports (DLQOR).**

| Disinfectant Residual | Year | Average Level | Range of Levels Detected | MRDL | MRDLG | Unit of Measure | Violation (Y/N) | Source in Drinking Water |
|---|---|---|---|---|---|---|---|---|
| Chloramines | 2021 | 2.33 | .70 - 3.14 | 4 | 4 | ppm | N | Water additive used to control microbes. |