# 2020 Texas Integrated Report - Assessment Results for Basin 20 - San Antonio-Nueces Coastal Basin

| Report Abbreviations | Description: |
|---|---|
| **SEGID:** | Unique Segment identification alpha-numeric code; can be stream, reservoir, estuary, oyster waters, beach watch, etc. |
| **AUID:** | Unique Assessment Unit code; this is a portion of the segment the AUID begins with and ends with _01, _02, etc. Some AUIDs are special units ending in "SA," or oyster water AUIDs are indicated by "OW" and beach watch AUIDs are indicated by abbreviations for name of beach in AUID. |
| **ASMT Start Date:** | The start date of the period of record data for this method was selected; the official 2020 period of record is from 12/1/2011 to 11/30/2018. Assessors have the option of going back 10 years (12/1/2008) to select more data, according to assessment guidance. |
| **ASMT End Date:** | The end date of the period of record data for this method was selected; the official 2020 period of record dates are 12/1/2011 to 11/30/2018. Assessors have the option of including more recently collected data than 12/01/2018, if available. |
| **# Assd:** | Number of samples assessed; some data are averaged, as with profile data, some are eliminated because criteria do not apply during certain conditions such as low flow. |
| **Mean Assd:** | Mean of samples assessed; includes averaged methods like chronic criteria as well as geometric mean calculations for bacteria. |
| **# Exceed:** | The number of samples that exceed criteria for single sample, or binomial, methods (not averaged data). |
| **Mean Exceed:** | This is the mean of the samples that exceeded criteria for the single sample, or binomial, methods (not averaged data). |
| **Criteria:** | Value that the data is compared against to determine level of support; Note: for acute metals in water, each value is compared to a calculated criterion and not all criteria could be reported here, only the minimum in the range of criteria calculated are included. |
| **DS Qual:** | *Dataset Qualifier - indicates sample sizes:*<br>**AD** = Adequate Data (10 or more samples)<br>**LD** = Limited Data (less than 9, greater than 3)<br>**ID** = Inadequate Data (less than 4)<br>**JQ** = Level of support is based on judgment of the assessor<br>**SM** = This assessment method is superseded by another method<br>**TR** = Temporally Not Representative, used with NA<br>**SR** = Spatially Not Representative, used with NA<br>**OE** = Other information than ambient samples evaluated<br>**OS** = Assessment area outside state boundaries |
| **LOS:** | *Level of support for this use, method, assessment parameter:*<br>**FS** = Fully Supporting<br>**NC** = No Concern<br>**NA** = Not Assessed<br>**NS** = Nonsupport<br>**CS** = Screening Level Concern<br>**CN** = Use Concern |
| **CF:** | Carry forward indicator check box: indicates that the Integrated level of support of CS, CN, or NS was carried forward from a previous assessment due to inadequate data for this method in this assessment. |
| **Int LOS:** | Integrated level of support. This is the overall level of support for this use, method, parameter group, which could be different from the LOS (described above) due to carry forward information or other types of changes. New Code added in 2010: PI = Pending Issue |
| **TCEQ Cause:** | This is the impairment description (e.g., bacteria, depressed dissolved oxygen, etc.) |
| **Cat:** | **Category 3**: Insufficient or no data and information to determine if standard is attained<br>**Category 4**: Standard is not attained or nonattainment is predicted in the near future due to one or more parameters, but no TMDLs are required.<br>**4a** - All TMDLs have been completed and approved by EPA.<br>**4b** - Other pollution control requirements are reasonably expected to result in the attainment of the water quality standard in the near future.<br>**4c** - Nonattainment of the standard for one or more parameters is shown to be caused by pollution, not by pollutants and that the water quality conditions cannot be changed by the allocation and control of pollutants through the TMDL process.<br>**Category 5**: Standard is not attained or nonattainment is predicted in the near future for one or more parameters.<br>**5a** - TMDLs are underway, scheduled, or may be scheduled for one or more parameters.<br>**5b** - review of the standards for one or more parameters will be conducted before a management strategy is selected, including a possible revision to the water quality standards.<br>**5c** - Additional data or information will be collected and/or evaluated for one or more parameters before a management strategy is selected. |

# 2020 Texas Integrated Report - Assessment Results for Basin 20 - San Antonio-Nueces Coastal Basin

## SEGID: 2001 Mission River Tidal

### AUID: 2001_01 From the confluence with Mission Bay in Refugio County to a point 7.4 km (4.6 mi) downstream of US 77 in Refugio County

**Aquatic Life Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Oxygen grab minimum | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 3 | 29 | | 1 | 2.73 | AD | FS | ☐ | FS | | |
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 4 | 29 | | 1 | 2.73 | AD | NC | ☐ | NC | | |

**Recreation Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bacteria Geomean | Enterococcus | 12/01/11 - 11/30/18 | 35 | 28 | 41.57 | 1 | | AD | NS | ☐ | NS | Bacteria in water | 4a |

**General Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| High pH | pH | 12/01/11 - 11/30/18 | 9 | 29 | | 0 | | AD | FS | ☐ | FS | | |
| Low pH | pH | 12/01/11 - 11/30/18 | 6.50 | 29 | | 0 | | AD | FS | ☐ | FS | | |
| Nutrient Screening Levels | Ammonia | 12/01/11 - 11/30/18 | 0.46 | 28 | | 0 | | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Chlorophyll-a | 12/01/11 - 11/30/18 | 21 | 28 | | 8 | 37.89 | AD | CS | ☐ | CS | Chlorophyll-a in water | |
| Nutrient Screening Levels | Nitrate | 12/01/11 - 11/30/18 | 1.10 | 28 | | 0 | | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Total Phosphorus | 12/01/11 - 11/30/18 | 0.66 | 28 | | 0 | | AD | NC | ☐ | NC | | |
| Water Temperature | Water temperature | 12/01/11 - 11/30/18 | 35 | 29 | | 0 | | AD | FS | ☐ | FS | | |

# 2020 Texas Integrated Report - Assessment Results for Basin 20 - San Antonio-Nueces Coastal Basin

## SEGID: 2002 Mission River Above Tidal

### AUID: 2002_01 From a point 7.4 km (4.6 mi) downstream of US 77 in Refugio County to the confluence of Blanco Creek and Medio Creek in Refugio County

**Aquatic Life Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Oxygen grab minimum | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 3 | 14 | | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 5 | 14 | | 3 | 4.23 | AD | CS | ☐ | CS | Depressed dissolved oxygen in water | |

**Recreation Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bacteria Geomean | E. coli | 12/01/11 - 11/30/18 | 126 | 23 | 109.01 | 0 | | AD | FS | ☐ | FS | | |

**General Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Solids | Chloride | 12/01/11 - 11/30/18 | 850 | 23 | 548.30 | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Solids | Sulfate | 12/01/11 - 11/30/18 | 100 | 23 | 30.54 | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Solids | Total Dissolved Solids | 12/01/11 - 11/30/18 | 2,000 | 23 | 1,276.51 | 0 | | AD | FS | ☐ | FS | | |
| High pH | pH | 12/01/11 - 11/30/18 | 9 | 14 | | 0 | | AD | FS | ☐ | FS | | |
| Low pH | pH | 12/01/11 - 11/30/18 | 6.50 | 14 | | 0 | | AD | FS | ☐ | FS | | |
| Nutrient Screening Levels | Ammonia | 12/01/11 - 11/30/18 | 0.33 | 28 | | 0 | | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Chlorophyll-a | 12/01/11 - 11/30/18 | 14.10 | 28 | | 6 | 24.48 | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Nitrate | 12/01/11 - 11/30/18 | 1.95 | 28 | | 0 | | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Total Phosphorus | 12/01/11 - 11/30/18 | 0.69 | 28 | | 1 | 0.74 | AD | NC | ☐ | NC | | |
| Water Temperature | Water temperature | 12/01/11 - 11/30/18 | 35 | 14 | | 0 | | AD | FS | ☐ | FS | | |

# 2020 Texas Integrated Report - Assessment Results for Basin 20 - San Antonio-Nueces Coastal Basin

## SEGID: 2003 Aransas River Tidal

### AUID: 2003_01 From the confluence with Copano Bay in Aransas/Refugio County to a point 1.6 km (1.0 mi) upstream of US 77 in Refugio/San Patricio County

**Aquatic Life Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Oxygen grab minimum | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 3 | 29 | | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 4 | 29 | | 0 | | AD | NC | ☐ | NC | | |

**Recreation Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bacteria Geomean | Enterococcus | 12/01/11 - 11/30/18 | 35 | 29 | 45.20 | 1 | | AD | NS | ☐ | NS | Bacteria in water | 4a |

**General Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| High pH | pH | 12/01/11 - 11/30/18 | 9 | 29 | | 0 | | AD | FS | ☐ | FS | | |
| Low pH | pH | 12/01/11 - 11/30/18 | 6.50 | 29 | | 0 | | AD | FS | ☐ | FS | | |
| Nutrient Screening Levels | Ammonia | 12/01/11 - 11/30/18 | 0.46 | 29 | | 0 | | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Chlorophyll-a | 12/01/11 - 11/30/18 | 21 | 29 | | 11 | 36.35 | AD | CS | ☐ | CS | Chlorophyll-a in water | |
| Nutrient Screening Levels | Nitrate | 12/01/11 - 11/30/18 | 1.10 | 29 | | 0 | | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Total Phosphorus | 12/01/11 - 11/30/18 | 0.66 | 29 | | 0 | | AD | NC | ☐ | NC | | |
| Water Temperature | Water temperature | 12/01/11 - 11/30/18 | 35 | 29 | | 0 | | AD | FS | ☐ | FS | | |

# 2020 Texas Integrated Report - Assessment Results for Basin 20 - San Antonio-Nueces Coastal Basin

## SEGID: 2004 Aransas River Above Tidal

### AUID: 2004_01 From the downstream end of segment to the confluence with Papalote Creek

**General Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Solids | Chloride | 12/01/11 - 11/30/18 | 450 | 28 | 205.94 | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Solids | Sulfate | 12/01/11 - 11/30/18 | 100 | 28 | 81.55 | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Solids | Total Dissolved Solids | 12/01/11 - 11/30/18 | 1,700 | 29 | 683.86 | 0 | | AD | FS | ☐ | FS | | |

# 2020 Texas Integrated Report - Assessment Results for Basin 20 - San Antonio-Nueces Coastal Basin

**AUID: 2004_02** From the confluence with Papalote Creek to the upstream end of segment at the confluence with Aransas Creek and Poesta Creek

### Aquatic Life Use

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Oxygen grab minimum | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 3 | 18 | | 1 | 2.10 | AD | FS | ☐ | FS | | |
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 5 | 18 | | 4 | 3.58 | AD | CS | ☐ | CS | Depressed dissolved oxygen in water | |

### Recreation Use

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bacteria Geomean | E. coli | 12/01/11 - 11/30/18 | 126 | 28 | 190.94 | 1 | | AD | NS | ☐ | NS | Bacteria in water | 4a |

### General Use

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Solids | Chloride | 12/01/11 - 11/30/18 | 450 | 28 | 205.94 | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Solids | Sulfate | 12/01/11 - 11/30/18 | 100 | 28 | 81.55 | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Solids | Total Dissolved Solids | 12/01/11 - 11/30/18 | 1,700 | 29 | 683.86 | 0 | | AD | FS | ☐ | FS | | |
| High pH | pH | 12/01/11 - 11/30/18 | 9 | 18 | | 0 | | AD | FS | ☐ | FS | | |
| Low pH | pH | 12/01/11 - 11/30/18 | 6.50 | 18 | | 0 | | AD | FS | ☐ | FS | | |
| Nutrient Screening Levels | Ammonia | 12/01/11 - 11/30/18 | 0.33 | 28 | | 0 | | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Chlorophyll-a | 12/01/11 - 11/30/18 | 14.10 | 28 | | 1 | 17.30 | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Nitrate | 12/01/11 - 11/30/18 | 1.95 | 28 | | 12 | 6.08 | AD | CS | ☐ | CS | Nitrate in water | |
| Nutrient Screening Levels | Total Phosphorus | 12/01/11 - 11/30/18 | 0.69 | 28 | | 25 | 1.96 | AD | CS | ☐ | CS | Total Phosphorus in water | |
| Water Temperature | Water temperature | 12/01/11 - 11/30/18 | 35 | 18 | | 0 | | AD | FS | ☐ | FS | | |

# 2020 Texas Integrated Report - Assessment Results for Basin 20 - San Antonio-Nueces Coastal Basin

## SEGID: 2004A Aransas Creek

### AUID: 2004A_01 From confluence with the Aransas River to the headwaters of the stream about 10 km upstream of US Highway 59.

**Aquatic Life Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Oxygen 24hr average | Dissolved Oxygen 24hr Avg | 12/01/11 - 11/30/18 | 3 | 3 | | 0 | | ID | NA | ☐ | NA | | |
| Dissolved Oxygen 24hr minimum | Dissolved Oxygen 24hr Min | 12/01/11 - 11/30/18 | 2 | 3 | | 1 | 1.60 | ID | NA | ☐ | NA | | |

**Recreation Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bacteria Geomean | E. coli | 12/01/11 - 11/30/18 | 126 | | | | | ID | NA | ☑ | NS | Bacteria in water | 5c |

# 2020 Texas Integrated Report - Assessment Results for Basin 20 - San Antonio-Nueces Coastal Basin

## SEGID: 2004B Poesta Creek

### AUID: 2004B_01 From the confluence of the Aransas River to the confluence of Talpacate Creek

**Aquatic Life Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Oxygen grab minimum | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 2 | 13 | | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/01/11 - 11/30/18 | 3 | 13 | | 0 | | AD | NC | ☐ | NC | | |

**Recreation Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bacteria Geomean | E. coli | 12/01/11 - 11/30/18 | 126 | 13 | 348.00 | 1 | | LD | CN | ☐ | CN | Bacteria in water | |

**General Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nutrient Screening Levels | Ammonia | 12/01/11 - 11/30/18 | 0.33 | 10 | | 1 | 0.61 | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Chlorophyll-a | 12/01/11 - 11/30/18 | 14.10 | 10 | | 0 | | AD | NC | ☐ | NC | | |
| Nutrient Screening Levels | Nitrate | 12/01/11 - 11/30/18 | 1.95 | 10 | | 7 | 16.14 | AD | CS | ☐ | CS | Nitrate in water | |
| Nutrient Screening Levels | Total Phosphorus | 12/01/11 - 11/30/18 | 0.69 | 10 | | 9 | 2.98 | AD | CS | ☐ | CS | Total Phosphorus in water | |

# 2020 Texas Integrated Report - Assessment Results for Basin 20 - San Antonio-Nueces Coastal Basin

**AUID: 2004B_02** From the confluence with Talpacate Creek to the headwaters of the stream approximately 7.5 km upstream of FM 673

**Aquatic Life Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dissolved Oxygen grab minimum | Dissolved Oxygen Grab | 10/15/10 - 11/30/18 | 2 | 10 | | 0 | | AD | FS | ☐ | FS | | |
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 10/15/10 - 11/30/18 | 3 | 10 | | 3 | 2.40 | AD | CS | ☐ | CS | Depressed dissolved oxygen in water | |

**Recreation Use**

| Method | Parameter | Period of Record | Criteria | Data Assessed # | Data Assessed Value | Exceedances # | Exceedances Value | Data Qual | LOS | CF | Int LOS | TCEQ Cause | Cat |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bacteria Geomean | E. coli | 12/01/11 - 11/30/18 | 126 | 5 | 407.43 | 1 | | ID | NA | ☑ | NS | Bacteria in water | 4a |