

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

| Report Abbreviations   | Description:  |  |  |
|--|---|--|--|
| <b>SEGID:</b>  | Unique Segment identification alpha-numeric code; can be stream, reservoir, estuary, oyster waters, beach watch, etc.   |  |  |
| <b>AUID:</b>   | 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.  |  |  |
| <b>ASMT Start Date:</b>  | The start date of the period of record data for this method was selected; the official 2012 period of record is from 12/1/2003 to 11/30/2010. Assessors have the option of going back 10 years (12/1/2000) to select more data, according to assessment guidance.   |  |  |
| <b>ASMT End Date</b>   | The end date of the period of record data for this method was selected; the official 2012 period of record dates are 12/1/2003 to 11/30/2010. Assessors have the option of including more recently collected data than 12/01/2010, if available.  |  |  |
| <b># Assd:</b>   | 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.   |  |  |
| <b>Mean Assd:</b>  | Mean of samples assessed; includes averaged methods like chronic criteria as well as geometric mean calculations for bacteria.  |  |  |
| <b># Exceed:</b>   | The number of samples that exceed criteria for single sample, or binomial, methods (not averaged data).   |  |  |
| <b>Mean Exceed:</b>  | This is the mean of the samples that exceeded criteria for the single sample, or binomial, methods (not averaged data).   |  |  |
| <b>Criteria:</b>   | 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 criteria and not all criteria could be reported here, only the minimum in the range of criteria calculated are included.   |  |  |
| <b>DS Qual:</b>  | <p><i>Dataset Qualifier - indicates sample sizes:</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>AD</b> = Adequate Data (10 or more samples)<br/> <b>LD</b> = Limited Data (less than 9, greater than 3)<br/> <b>ID</b> = Inadequate Data (less than 4)<br/> <b>JQ</b> = Level of support is based on judgment of the assessor                 </td> <td style="width: 50%; vertical-align: top;"> <b>SM</b> = This assessment method is superseded by another method<br/> <b>TR</b> = Temporally Not Representative, used with NA<br/> <b>SR</b> = Spatially Not Representative, used with NA<br/> <b>OE</b> = Other information than ambient samples evaluated, generally information is provided by outside entity                 </td> </tr> </table>  | <b>AD</b> = Adequate Data (10 or more samples)<br><b>LD</b> = Limited Data (less than 9, greater than 3)<br><b>ID</b> = Inadequate Data (less than 4)<br><b>JQ</b> = Level of support is based on judgment of the assessor | <b>SM</b> = This assessment method is superseded by another method<br><b>TR</b> = Temporally Not Representative, used with NA<br><b>SR</b> = Spatially Not Representative, used with NA<br><b>OE</b> = Other information than ambient samples evaluated, generally information is provided by outside entity |
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| <b>LOS:</b>  | <p><i>Level of support for this use, method, assessment parameter:</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>FS</b> = Fully Supporting<br/> <b>NC</b> = No Concern<br/> <b>NA</b> = Not Assessed                 </td> <td style="width: 50%; vertical-align: top;"> <b>NS</b> = Nonsupport<br/> <b>CS</b> = Screening Level Concern<br/> <b>CN</b> = Use Concern                 </td> </tr> </table>   | <b>FS</b> = Fully Supporting<br><b>NC</b> = No Concern<br><b>NA</b> = Not Assessed   | <b>NS</b> = Nonsupport<br><b>CS</b> = Screening Level Concern<br><b>CN</b> = Use Concern   |
| <b>FS</b> = Fully Supporting<br><b>NC</b> = No Concern<br><b>NA</b> = Not Assessed   | <b>NS</b> = Nonsupport<br><b>CS</b> = Screening Level Concern<br><b>CN</b> = Use Concern  |  |  |
| <b>CF:</b>   | 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.  |  |  |
| <b>Int LOS:</b>  | 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   |  |  |
| <b>TCEQ Cause</b>  | This is the impairment description (e.g., bacteria, depressed dissolved oxygen, etc.)   |  |  |
| <b>Cat:</b>  | <p><i>This is the assessment category assigned to this impairment. Subcategories as follows:</i></p> <p><b>Category 4:</b> Standard is not supported or is threatened for one or more designated uses but does not require the development of a TMDL.</p> <p style="margin-left: 20px;"><b>4a</b> - TMDL has been completed and approved by EPA. Category.</p> <p style="margin-left: 20px;"><b>4b</b> - Other pollution control requirements are reasonably expected to result in the attainment of the water quality standard in the near future.</p> <p style="margin-left: 20px;"><b>4c</b> - Nonsupport of the water quality standard is not caused by a pollutant.</p> <p><b>Category 5:</b> The water body does not meet applicable water quality standards or is threatened for one or more designated uses by one or more pollutants.</p> <p style="margin-left: 20px;"><b>5a</b> - A TMDL is underway, scheduled, or will be scheduled.</p> <p style="margin-left: 20px;"><b>5b</b> - A review of the water quality standards for this water body will be conducted before a TMDL is scheduled.</p> <p style="margin-left: 20px;"><b>5c</b> - Additional data and information will be collected before a TMDL is scheduled.</p> |  |  |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0301 Sulphur River Below Wright Patman Lake**

**AUID 0301\_01** From the Arkansas state line approximately 9 miles upstream to the unnamed creek at NHD RC 11140302004559

**USE Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 1        | 4.2         | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 18     | 26.94     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 24     |           | 1        | 32.4        | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 55     | 186.93    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 54     | 18.00     | 0        |             | 120.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 56     | 28.24     | 0        |             | 100.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 22     |           | 1        | 0.56        | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 20     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 22     |           | 15       | 53.38       | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID**

**0301\_01**

From the Arkansas state line approximately 9 miles upstream to the unnamed creek at NHD RC 11140302004559

**USE**

**Fish Consumption Use**

| Method                                | Parameter                  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|----------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water    | Antimony                   | 12/1/2003       | 11/30/2010    | 9      | 0.11      | 0        |             | 1,071.00 | LD      | ND  | <input type="checkbox"/> | ND      |            |     |
| HH Bioaccumulative Toxics in water    | Chromium                   | 12/1/2003       | 11/30/2010    | 10     | 0.31      | 0        |             | 502.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water    | Lead                       | 12/1/2003       | 11/30/2010    | 10     | 0.17      | 0        |             | 3.83     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Bioaccumulative Toxics in fish tissue | BHC-alpha isomer           | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.37     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium                   | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 4.38     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Benz(a)anthracene          | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.32     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | beta-BHC                   | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 1.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene                  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDT                        | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 5.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Pentachlorophenol (PCP)    | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 532.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Nitrobenzene               | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 8.87     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Pyridine                   | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 17.73    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | 1,2,4,5-Tetrachlorobenzene | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 5.32     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Cresols                    | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 886.67   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | N-Nitrosodiethylamine      | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.01     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | N-Nitroso-di-n-butylamine  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.43     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Pentachlorobenzene         | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 14.19    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                       | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.13     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobutadiene (HCBd) | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 11.14    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDE                        | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 5.45     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Benzo(a)pyrene             | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.32     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID**

**0301\_01**

From the Arkansas state line approximately 9 miles upstream to the unnamed creek at NHD RC 11140302004559

**USE**

**Fish Consumption Use**

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Aldrin                  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.14     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.60     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Benzidine               | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 6      |           | 2        | 1.16        | 0.53     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                 | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.23     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chlordane               | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.30     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium                | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 5.25     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chrysene                | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.32     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDD                     | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 9.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachloroethane        | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 164.67   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 250.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic                 | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.04     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0301\_02 From the unnamed creek at NHD RC 11140302004559 approximately 10 miles to Wright Patman Lake Dam

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 34     |           | 2        | 3.3         | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 34     |           | 1        | 2.2         | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Aluminum              | 12/1/2000       | 11/30/2010    | 10     |           | 0        |             | 991.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Zinc                  | 12/1/2000       | 11/30/2010    | 10     |           | 1        | 10          | 98.73    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Nickel                | 12/1/2000       | 11/30/2010    | 10     |           | 0        |             | 1,221.30 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Lead                  | 12/1/2000       | 11/30/2010    | 10     |           | 0        |             | 58.14    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Copper                | 12/1/2000       | 11/30/2010    | 10     |           | 0        |             | 15.63    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Chromium              | 12/1/2000       | 11/30/2010    | 10     |           | 0        |             | 475.72   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Arsenic               | 12/1/2000       | 11/30/2010    | 10     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Cadmium               | 12/1/2000       | 11/30/2010    | 10     |           | 0        |             | 26.93    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Nickel                | 12/1/2000       | 11/30/2010    | 10     | 2.49      | 0        |             | 93.33    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Lead                  | 12/1/2000       | 11/30/2010    | 10     | 0.17      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Zinc                  | 12/1/2000       | 11/30/2010    | 10     | 3.88      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Chromium              | 12/1/2000       | 11/30/2010    | 10     | 0.31      | 0        |             | 107.46   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Copper                | 12/1/2000       | 11/30/2010    | 10     | 2.38      | 0        |             | 7.26     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Cadmium               | 12/1/2000       | 11/30/2010    | 10     | 0.05      | 0        |             | 0.64     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Chronic Toxic Substances in water     | Arsenic               | 12/1/2000       | 11/30/2010    | 10     | 1.67      | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 18     | 11.64     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0301\_02 From the unnamed creek at NHD RC 11140302004559 approximately 10 miles to Wright Patman Lake Dam

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause       | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 34     |           | 1        | 32.7        | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 34     |           | 1        | 8.7         | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 34     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 55     | 186.93    | 0        |             | 500.00   | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 54     | 18.00     | 0        |             | 120.00   | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 56     | 28.24     | 0        |             | 100.00   | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 30     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 30     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 32     |           | 2        | 0.52        | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 26     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 22     |           | 17       | 46.03       | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a    |     |
| Fish Kill Reports         | Fish Kill Reports      | 12/1/2003       | 11/30/2010    | 4      |           | 4        | 135609      |          | AD      | CN  | <input type="checkbox"/> | CN      | fish kill report |     |

**USE** Fish Consumption Use

| Method                                | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water    | Chromium  | 12/1/2000       | 11/30/2010    | 10     | 0.31      | 0        |             | 502.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water    | Lead      | 12/1/2000       | 11/30/2010    | 10     | 0.17      | 0        |             | 3.83     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water    | Antimony  | 12/1/2000       | 11/30/2010    | 9      | 0.11      | 0        |             | 1,071.00 | LD      | ND  | <input type="checkbox"/> | ND      |            |     |
| Bioaccumulative Toxics in fish tissue | DDE       | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 5.45     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs      | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.13     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Pyridine  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 17.73    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 4.38     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0301\_02 From the unnamed creek at NHD RC 11140302004559 approximately 10 miles to Wright Patman Lake Dam

**USE** Fish Consumption Use

| Method                                | Parameter                  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|----------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Benz(a)anthracene          | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.32     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | beta-BHC                   | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 1.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene                  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDT                        | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 5.28     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Nitrobenzene               | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 8.87     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | 1,2,4,5-Tetrachlorobenzene | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 5.32     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | BHC-alpha isomer           | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.37     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Cresols                    | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 886.67   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | N-Nitrosodiethylamine      | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.01     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | N-Nitroso-di-n-butylamine  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.43     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Pentachlorobenzene         | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 14.19    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachloroethane           | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 164.67   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Pentachlorophenol (PCP)    | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 532.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chrysene                   | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.32     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                       | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.60     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin                     | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.14     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic                    | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.04     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Benzidine                  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Benzo(a)pyrene             | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.32     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                    | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.23     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                    | 12/1/2003       | 11/30/2010    | 6      |           | 2        | 1.16        | 0.53     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID**

**0301\_02**

From the unnamed creek at NHD RC 11140302004559 approximately 10 miles to Wright Patman Lake Dam

**USE**

**Fish Consumption Use**

| Method                                | Parameter                  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|----------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Chromium                   | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 5.25     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                     | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 250.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | DDD                        | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 9.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                   | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.06     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor                 | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB)    | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.61     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobutadiene (HCBd) | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 11.14    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chlordane                  | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 0.30     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID**    0302    Wright Patman Lake

**AUID**    0302\_01    800 acres near dam

**USE**    Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 21     |           | 3        | 3.67        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE**    Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 3      | 10.00     | 0        |             | 126.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE**    General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 24     |           | 1        | 32.3        | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 21     |           | 6        | 8.8         | 8.50     | AD      | NS  | <input type="checkbox"/> | NS      | pH            | 5b  |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 14     |           | 3        | 0.08        | 0.05     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 9      |           | 1        | 0.22        | 0.20     | LD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 12     |           | 6        | 73.77       | 26.70    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_01 800 acres near dam

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method   | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Toluene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Fluoride     | 12/1/2003       | 11/30/2010    | 103    | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate      | 12/1/2003       | 11/30/2010    | 256    | 0.05      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Selenium     | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Benzene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Ethylbenzene | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water Toxic Substances average concern | MTBE         | 12/1/2003       | 11/30/2010    | 4      | 0.10      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_02 300 acres at International Paper intake

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 53     |           | 6        | 4.04        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 53     |           | 1        | 2.54        | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 22     |           | 7        | 3.97        | 5.00     | AD      | NS  | <input type="checkbox"/> | NS      | depressed dissolved oxygen | 5c  |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 22     |           | 4        | 1.65        | 3.00     | AD      | NS  | <input type="checkbox"/> | NS      | depressed dissolved oxygen | 5c  |
| Acute Toxic Substances in water       | Selenium                  | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 20.00    | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Chronic Toxic Substances in water     | Selenium                  | 12/1/2003       | 11/30/2010    | 4      | 0.17      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 33     | 2.18      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 54     |           | 3        | 32.6        | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 52     |           | 14       | 8.9         | 8.50     | AD      | NS  | <input type="checkbox"/> | NS      | pH            | 5c  |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 52     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 12     |           | 4        | 0.08        | 0.05     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 34     |           | 24       | 60.65       | 26.70    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 36     |           | 4        | 0.14        | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 38     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 30     |           | 8        | 0.27        | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_02 300 acres at International Paper intake

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method   | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Benzene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Toluene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Selenium     | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate      | 12/1/2003       | 11/30/2010    | 256    | 0.05      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Fluoride     | 12/1/2003       | 11/30/2010    | 103    | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Ethylbenzene | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water Toxic Substances average concern | MTBE         | 12/1/2003       | 11/30/2010    | 4      | 0.10      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_03 1600 acres southwest of dam

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 3      |           | 1        | 4.34        | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 2      | 10.00     | 0        |             | 126.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 32.20    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 3      |           | 1        | 8.7         | 8.50     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 6.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.37     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 1      |           | 1        | 71.1        | 26.70    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 2      |           | 1        | 0.06        | 0.05     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.11     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_03 1600 acres southwest of dam

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method   | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Fluoride     | 12/1/2003       | 11/30/2010    | 103    | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate      | 12/1/2003       | 11/30/2010    | 256    | 0.05      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Selenium     | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Benzene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Ethylbenzene | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Toluene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water Toxic Substances average concern | MTBE         | 12/1/2003       | 11/30/2010    | 4      | 0.10      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_04 500 acres in the northeast corner of lake

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 51     |           | 2        | 4.9         | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 51     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 27     |           | 1        | 4.37        | 5.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 27     |           | 2        | 2.1         | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 32     | 1.86      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 51     |           | 6        | 33.05       | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 50     |           | 22       | 8.97        | 8.50     | AD      | NS  | <input type="checkbox"/> | NS      | pH            | 5c  |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 50     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 38     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 36     |           | 20       | 49.06       | 26.70    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 37     |           | 7        | 0.34        | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 10     |           | 0        |             | 0.05     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 36     |           | 5        | 0.17        | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_04 500 acres in the northeast corner of lake

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method   | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Benzene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Toluene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Ethylbenzene | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Selenium     | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Fluoride     | 12/1/2003       | 11/30/2010    | 103    | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate      | 12/1/2003       | 11/30/2010    | 256    | 0.05      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water Toxic Substances average concern | MTBE         | 12/1/2003       | 11/30/2010    | 4      | 0.10      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_05 200 acres in the northwestern tip of lake

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 9      |           | 1        | 4.85        | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 9      |           | 3        | 8.92        | 8.50     | LD      | NS  | <input type="checkbox"/> | NS      | pH         | 5c  |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 6.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 9      |           | 1        | 0.06        | 0.05     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 0.11     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.20     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 0.37     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_05 200 acres in the northwestern tip of lake

**USE** Public Water Supply Use

| Method   | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Toluene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Benzene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate      | 12/1/2003       | 11/30/2010    | 256    | 0.05      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Fluoride     | 12/1/2003       | 11/30/2010    | 103    | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Ethylbenzene | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water Toxic Substances average concern | MTBE         | 12/1/2003       | 11/30/2010    | 4      | 0.10      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_06 Big Creek arm

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 35     |           | 2        | 4.26        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Selenium              | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 20.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Selenium              | 12/1/2003       | 11/30/2010    | 4      | 0.15      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 21     | 2.77      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 38     |           | 1        | 33          | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 35     |           | 11       | 8.85        | 8.50     | AD      | NS  | <input type="checkbox"/> | NS      | pH            | 5c  |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 33     |           | 1        | 0.07        | 0.05     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 24     |           | 17       | 47.26       | 26.70    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 32     |           | 1        | 0.24        | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 34     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_06 Big Creek arm

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method   | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Ethylbenzene | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate      | 12/1/2003       | 11/30/2010    | 256    | 0.05      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Toluene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Selenium     | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Fluoride     | 12/1/2003       | 11/30/2010    | 103    | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Benzene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water Toxic Substances average concern | MTBE         | 12/1/2003       | 11/30/2010    | 4      | 0.10      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_07 4000 acres mid-lake

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 9      |           | 1        | 4.08        | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** General Use

| Method            | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause | Cat |
|-------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|------------|-----|
| Water Temperature | Temperature            | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| High pH           | pH                     | 12/1/2003       | 11/30/2010    | 9      |           | 2        | 8.85        | 8.50     | LD      | CN  | <input checked="" type="checkbox"/> | NS      | pH         | 5c  |
| Low pH            | pH                     | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 6.00     | LD      | NC  | <input type="checkbox"/>            | NC      |            |     |
| Dissolved Solids  | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids  | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids  | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Ethylbenzene | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Fluoride     | 12/1/2003       | 11/30/2010    | 103    | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Toluene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Benzene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Nitrate      | 12/1/2003       | 11/30/2010    | 256    | 0.05      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_07 4000 acres mid-lake

**USE** Public Water Supply Use

| Method   | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Selenium  | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water Toxic Substances average concern | MTBE      | 12/1/2003       | 11/30/2010    | 4      | 0.10      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_08 1600 acres in upper mid-lake

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 9      |           | 2        | 8.95        | 8.50     | LD      | CN  | <input checked="" type="checkbox"/> | NS      | pH         | 5c  |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 6.00     | LD      | NC  | <input type="checkbox"/>            | NC      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 0.20     | LD      | NC  | <input type="checkbox"/>            | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 0.11     | LD      | NC  | <input type="checkbox"/>            | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 9      |           | 1        | 0.15        | 0.05     | LD      | NC  | <input type="checkbox"/>            | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 0.37     | LD      | NC  | <input type="checkbox"/>            | NC      |            |     |

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

|             |                |                              |
|-------------|----------------|------------------------------|
| <b>AUID</b> | <b>0302_08</b> | 1600 acres in upper mid-lake |
|-------------|----------------|------------------------------|

|            |                                |
|------------|--------------------------------|
| <b>USE</b> | <b>Public Water Supply Use</b> |
|------------|--------------------------------|

| Method   | Parameter    | ASMT<br>Start Date | ASMT<br>End Date | # Assd | Mean<br>assd | #<br>exceed | Mean<br>exceed | Criteria | DS<br>Qual | LOS | CF                       | Int<br>LOS | TCEQ Cause | Cat |
|--|--------------|--------------------|------------------|--------|--------------|-------------|----------------|----------|------------|-----|--------------------------|------------|------------|-----|
| Surface Water HH criteria for PWS average      | Toluene      | 12/1/2003          | 11/30/2010       | 7      | 0.05         | 0           |                | 1,000.00 | LD         | NC  | <input type="checkbox"/> | NC         |            |     |
| Surface Water HH criteria for PWS average      | Benzene      | 12/1/2003          | 11/30/2010       | 7      | 0.05         | 0           |                | 5.00     | LD         | NC  | <input type="checkbox"/> | NC         |            |     |
| Surface Water HH criteria for PWS average      | Nitrate      | 12/1/2003          | 11/30/2010       | 256    | 0.05         | 0           |                | 10.00    | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average      | Fluoride     | 12/1/2003          | 11/30/2010       | 103    | 0.14         | 0           |                | 4.00     | AD         | FS  | <input type="checkbox"/> | FS         |            |     |
| Surface Water HH criteria for PWS average      | Ethylbenzene | 12/1/2003          | 11/30/2010       | 7      | 0.05         | 0           |                | 700.00   | LD         | NC  | <input type="checkbox"/> | NC         |            |     |
| Surface Water Toxic Substances average concern | MTBE         | 12/1/2003          | 11/30/2010       | 4      | 0.10         | 0           |                | 240.00   | LD         | NC  | <input type="checkbox"/> | NC         |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_09 5000 acres mid-lake, below Hwy 8

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 40     |           | 2        | 3.73        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Selenium              | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 20.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Chronic Toxic Substances in water     | Selenium              | 12/1/2003       | 11/30/2010    | 3      | 0.21      | 0        |             | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 28     | 3.73      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause      | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|-----------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 40     |           | 2        | 32.85       | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 40     |           | 3        | 8.57        | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |                 |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 28     |           | 9        | 0.12        | 0.05     | AD      | CS  | <input type="checkbox"/> | CS      | orthophosphorus |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 38     |           | 25       | 51          | 26.70    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a   |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 39     |           | 0        |             | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |                 |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |                 |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 39     |           | 7        | 0.24        | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |                 |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_09 5000 acres mid-lake, below Hwy 8

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method   | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Fluoride     | 12/1/2003       | 11/30/2010    | 103    | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Ethylbenzene | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Toluene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Selenium     | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate      | 12/1/2003       | 11/30/2010    | 256    | 0.05      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Benzene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water Toxic Substances average concern | MTBE         | 12/1/2003       | 11/30/2010    | 4      | 0.10      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_10 4000 acres in upper portion of lake

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 62     |           | 19       | 2.97        | 5.00     | SM      | CS  | <input type="checkbox"/> | CS      | depressed dissolved oxygen |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 62     |           | 10       | 1.95        | 3.00     | SM      | NS  | <input type="checkbox"/> | NS      | depressed dissolved oxygen | 5c  |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 27     |           | 17       | 3.41        | 5.00     | AD      | NS  | <input type="checkbox"/> | NS      | depressed dissolved oxygen | 5c  |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 27     |           | 13       | 1.87        | 3.00     | AD      | NS  | <input type="checkbox"/> | NS      | depressed dissolved oxygen | 5c  |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 31     | 8.93      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause       | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 66     |           | 2        | 32.75       | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 61     |           | 0        |             | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 61     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 219    | 19.58     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 374    | 154.88    | 0        |             | 400.00   | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 219    | 12.20     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 46     |           | 16       | 36.31       | 26.70    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a    |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 45     |           | 23       | 0.37        | 0.20     | AD      | CS  | <input type="checkbox"/> | CS      | total phosphorus |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 49     |           | 4        | 0.19        | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 51     |           | 1        | 0.49        | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 23     |           | 11       | 0.11        | 0.05     | AD      | CS  | <input type="checkbox"/> | CS      | orthophosphorus  |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302\_10 4000 acres in upper portion of lake

**USE** Fish Consumption Use

| Method  | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| DSHS Advisories, Closures, and Risk Assessments | Risk Assess.- No Advisory | 12/1/2003       | 11/30/2010    |        |           |          |             |          | OE      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water              | Benzene                   | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water              | Ethylbenzene              | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method   | Parameter    | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|--|--------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average      | Fluoride     | 12/1/2003       | 11/30/2010    | 103    | 0.14      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Nitrate      | 12/1/2003       | 11/30/2010    | 256    | 0.05      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Selenium     | 12/1/2003       | 11/30/2010    | 11     | 0.17      | 0        |             | 50.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average      | Benzene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Ethylbenzene | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 700.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average      | Toluene      | 12/1/2003       | 11/30/2010    | 7      | 0.05      | 0        |             | 1,000.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water Toxic Substances average concern | MTBE         | 12/1/2003       | 11/30/2010    | 4      | 0.10      | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0302A Big Creek (unclassified water body)**

**AUID 0302A\_02** From the confluence with NHD RC 11140302004386 upstream 24.3 km (15.1 mi) to the headwaters near I30 and WQS Appendix D portion of the water body.

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 4      |           | 1        | 3.1         | 4.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 2      |           | 2        | 3.17        | 4.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 2      |           | 1        | 2.43        | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 2      | 19.50     |          |             | 14.00    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 2      | 31.10     |          |             | 22.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 2      | 40.20     |          |             | 36.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 3      | 67.83     | 0        |             | 126.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause       | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------|-----|
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 4      |           | 3        | 0.95        | 0.69     | LD      | CS  | <input type="checkbox"/> | CS      | total phosphorus |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 4      |           | 1        | 16.7        | 14.10    | LD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 4      |           | 1        | 2.16        | 0.33     | LD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 4      |           | 1        | 3.96        | 1.95     | LD      | NC  | <input type="checkbox"/> | NC      |                  |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0302B Boone Creek (unclassified water body)**

**AUID 0302B\_01** Entire water body

**USE Aquatic Life Use**

| Method                       | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | Di-n-butyl phthalate   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 43.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | 1,3-Dichlorobenzene    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 350.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Nickel                 | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 48.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | PCBs                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 676.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Phenanthrene           | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,170.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Pyrene                 | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,520.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Mercury                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1.06      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Silver                 | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2.20      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Zinc                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 459.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Manganese              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,100.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Iron                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 40,000.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Benz(a)anthracene      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,050.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | alpha-BHC              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 100.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | beta-BHC               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 210.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Toxaphene              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 32.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | DDT                    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 62.90     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Nitrobenzene           | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 161.06    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | 1,2,4-Trichlorobenzene | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5,310.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | DDE                    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 31.30     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302B\_01 Entire water body

**USE** Aquatic Life Use

| Method                       | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | Lead                  | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 128.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | gamma-BHC (Lindane)   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4.99      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Arsenic               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 33.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | 1,4-Dichlorobenzene   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4,650.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Acenaphthene          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 89.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Acenaphthylene        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 130.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Hexachloroethane      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 13,770.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Anthracene            | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 845.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Benzo(a)pyrene        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,450.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Cadmium               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4.98      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chlordane             | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 17.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chromium              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 111.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chrysene              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,290.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | DDD                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 28.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Dibenz(a,h)anthracene | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 140.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Dieldrin              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 61.80     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Endrin                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 207.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Fluoranthene          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2,230.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Aldrin                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 80.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Fluorene              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 536.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Heptachlor epoxide    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 16.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0302B\_01 Entire water body

**USE** Aquatic Life Use

| Method                       | Parameter                  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|----------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | Hexachlorobenzene (HCB)    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 240.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Naphthalene                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 561.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Hexachlorobutadiene (HCBd) | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 550.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Copper                     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 149.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0302C Anderson Creek (unclassified water body)**

**AUID 0302C\_01** Entire water body

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 22     |           | 5        | 3.14        | 4.00     | AD      | CS  | <input type="checkbox"/> | CS      | depressed dissolved oxygen |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 22     |           | 1        | 2.5         | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 6      |           | 3        | 2.12        | 4.00     | LD      | NS  | <input type="checkbox"/> | CN      | depressed dissolved oxygen |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 6      |           | 3        | 1.72        | 3.00     | LD      | NS  | <input type="checkbox"/> | CN      | depressed dissolved oxygen |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 2      | 18.50     |          |             | 20.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired habitat           |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 4      | 29.40     |          |             | 29.00    | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 4      | 45.30     |          |             | 42.00    | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 15     | 61.82     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 21     |           | 4        | 1.14        | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 21     |           | 2        | 29.6        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0302D Caney Creek (unclassified water body)**

**AUID 0302D\_01** Entire water body

**USE Aquatic Life Use**

| Method                 | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Habitat                | Habitat                | 12/1/2003       | 11/30/2010    | 2      | 20.50     |          |             | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Macrobenthic Community | Macrobenthic Community | 12/1/2003       | 11/30/2010    | 2      | 30.10     |          |             | 0.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Fish Community         | Fish Community         | 12/1/2003       | 11/30/2010    | 2      | 43.80     |          |             | 0.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**SEGID 0302E Rice Creek (unclassified water body)**

**AUID 0302E\_01** Entire water body

**USE Aquatic Life Use**

| Method                 | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Habitat                | Habitat                | 12/1/2003       | 11/30/2010    | 6      | 17.50     |          |             | 4.00     | TR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Macrobenthic Community | Macrobenthic Community | 12/1/2003       | 11/30/2010    | 6      | 23.70     |          |             | 0.00     | TR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Fish Community         | Fish Community         | 12/1/2003       | 11/30/2010    | 6      | 41.10     |          |             | 0.00     | TR      | NA  | <input type="checkbox"/> | NA      |            |     |

**SEGID 0302F Akin Creek (unclassified water body)**

**AUID 0302F\_01** Entire water body

**USE Aquatic Life Use**

| Method                 | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                      | Cat |
|------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------------------------|-----|
| Habitat                | Habitat                | 12/1/2003       | 11/30/2010    | 2      | 23.00     |          |             | 20.00    | AD      | NC  | <input type="checkbox"/> | NC      |                                 |     |
| Macrobenthic Community | Macrobenthic Community | 12/1/2003       | 11/30/2010    | 2      | 32.90     |          |             | 29.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired macrobenthic community |     |
| Fish Community         | Fish Community         | 12/1/2003       | 11/30/2010    | 2      | 40.70     |          |             | 42.00    | AD      | NS  | <input type="checkbox"/> | CN      | impaired fish community         |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0303 Sulphur/South Sulphur River**

**AUID 0303\_01**

Portion of the Sulphur/South Sulphur River from Lake Wright Patman upstream approximately 29 km (18 mi) to the confluence with White Oak Creek

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 28     |           | 3        | 4.23        | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen 24hr average         | pH                        | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Lead                      | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 33.13    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Nickel                    | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 1,621.43 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Copper                    | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 21.44    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Cadmium                   | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 16.36    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Arsenic                   | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 360.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Aluminum                  | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 991.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Zinc                      | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 131.13   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Acute Toxic Substances in water       | Chromium                  | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 625.89   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Chronic Toxic Substances in water     | Nickel                    | 12/1/2003       | 11/30/2010    | 3      | 5.70      | 0        |             | 93.33    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Chronic Toxic Substances in water     | Zinc                      | 12/1/2003       | 11/30/2010    | 3      | 2.67      | 0        |             | 62.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Chronic Toxic Substances in water     | Lead                      | 12/1/2003       | 11/30/2010    | 3      | 0.50      | 0        |             | 1.15     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Chronic Toxic Substances in water     | Copper                    | 12/1/2003       | 11/30/2010    | 3      | 1.69      | 0        |             | 7.26     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Chronic Toxic Substances in water     | Chromium                  | 12/1/2003       | 11/30/2010    | 3      | 1.00      | 0        |             | 107.46   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Chronic Toxic Substances in water     | Cadmium                   | 12/1/2003       | 11/30/2010    | 3      | 0.23      | 0        |             | 0.64     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID**

**0303\_01**

Portion of the Sulphur/South Sulphur River from Lake Wright Patman upstream approximately 29 km (18 mi) to the confluence with White Oak Creek

**USE**

**Aquatic Life Use**

| Method                            | Parameter                  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|-----------------------------------|----------------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|------------|-----|
| Chronic Toxic Substances in water | Arsenic                    | 12/1/2003       | 11/30/2010    | 3      | 1.08      | 0        |             | 190.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Hexachloroethane           | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 13,770.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Di-n-butyl phthalate       | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 43.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Acenaphthylene             | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 130.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Benz(a)anthracene          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,050.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | 1,2,4-Trichlorobenzene     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5,310.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | 1,3-Dichlorobenzene        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 350.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Pyrene                     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,520.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Phenanthrene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,170.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Naphthalene                | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 561.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Nitrobenzene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 161.06    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | 1,4-Dichlorobenzene        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4,650.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Hexachlorobutadiene (HCBD) | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 550.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Benzo(a)pyrene             | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,450.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Acenaphthene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 89.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Anthracene                 | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 845.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Chrysene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,290.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Dibenz(a,h)anthracene      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 140.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Fluoranthene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2,230.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Fluorene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 536.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment      | Hexachlorobenzene (HCB)    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 240.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** **0303\_01** Portion of the Sulphur/South Sulphur River from Lake Wright Patman upstream approximately 29 km (18 mi) to the confluence with White Oak Creek

**USE** **Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 18     | 97.03     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** **General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 89     | 42.58     | 0        |             | 180.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 92     | 244.28    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 89     | 19.80     | 0        |             | 80.00    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 27     |           | 8        | 22.44       | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 27     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |

**USE** **Fish Consumption Use**

| Method                                | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water    | Chromium  | 12/1/2003       | 11/30/2010    | 8      | 0.41      | 0        |             | 502.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Lead      | 12/1/2003       | 11/30/2010    | 8      | 0.26      | 0        |             | 3.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Antimony  | 12/1/2003       | 11/30/2010    | 5      | 0.16      | 0        |             | 1,071.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID**

**0303\_01**

Portion of the Sulphur/South Sulphur River from Lake Wright Patman upstream approximately 29 km (18 mi) to the confluence with White Oak Creek

**USE**

**Fish Consumption Use**

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Nickel                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex                   | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303\_02 Portion of the Sulphur/South Sulphur River from the confluence of White Oak Creek approximately 44 km (27 mi) upstream to the confluence with the Roden Creek.

### USE Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 2      |           | 1        | 4.8         | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

### USE General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|---------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 33.90    | ID      | NA  | <input type="checkbox"/>            | NA      |               |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 8.50     | ID      | NA  | <input type="checkbox"/>            | NA      |               |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 6.00     | ID      | NA  | <input type="checkbox"/>            | NA      |               |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 92     | 244.28    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/>            | FS      |               |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 89     | 19.80     | 0        |             | 80.00    | AD      | FS  | <input type="checkbox"/>            | FS      |               |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 89     | 42.58     | 0        |             | 180.00   | AD      | FS  | <input type="checkbox"/>            | FS      |               |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 1.95     | ID      | NA  | <input type="checkbox"/>            | NA      |               |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.37     | ID      | NA  | <input type="checkbox"/>            | NA      |               |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.33     | ID      | NA  | <input type="checkbox"/>            | NA      |               |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.69     | ID      | NA  | <input type="checkbox"/>            | NA      |               |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 14.10    | ID      | NA  | <input checked="" type="checkbox"/> | CS      | chlorophyll-a |     |

### USE Fish Consumption Use

| Method                                | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water    | Chromium  | 12/1/2003       | 11/30/2010    | 8      | 0.41      | 0        |             | 502.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Lead      | 12/1/2003       | 11/30/2010    | 8      | 0.26      | 0        |             | 3.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Antimony  | 12/1/2003       | 11/30/2010    | 5      | 0.16      | 0        |             | 1,071.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID**

**0303\_02**

Portion of the Sulphur/South Sulphur River from the confluence of White Oak Creek approximately 44 km (27 mi) upstream to the confluence with the Roden Creek.

**USE**

**Fish Consumption Use**

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Arsenic                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex                   | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Nickel                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303\_03

Portion of the Sulphur/South Sulphur River from the confluence with Roden Creek approximately 44 km (27 mi) upstream to the confluence with the Cottonwood Slough.

**USE** General Use

| Method           | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Solids | Sulfate                | 12/1/2003       | 11/30/2010    | 89     | 42.58     | 0        |             | 180.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 92     | 244.28    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids | Chloride               | 12/1/2003       | 11/30/2010    | 89     | 19.80     | 0        |             | 80.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Fish Consumption Use

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water    | Chromium                | 12/1/2003       | 11/30/2010    | 8      | 0.41      | 0        |             | 502.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Lead                    | 12/1/2003       | 11/30/2010    | 8      | 0.26      | 0        |             | 3.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Antimony                | 12/1/2003       | 11/30/2010    | 5      | 0.16      | 0        |             | 1,071.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Nickel                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex                   | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID**

**0303\_03**

Portion of the Sulphur/South Sulphur River from the confluence with Roden Creek approximately 44 km (27 mi) upstream to the confluence with the Cottonwood Slough .

**USE**

**Fish Consumption Use**

| Method                                | Parameter          | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|--------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Cadmium            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic            | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin             | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303\_04

Portion of the Sulphur/South Sulphur River from the confluence with Cottonwood Slough approximately 41.5 km (26 mi) upstream to the confluence with the North Sulphur River.

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Nickel                | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 1,767.17 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Lead                  | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 101.36   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Copper                | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 23.59    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Chromium              | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 680.28   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Cadmium               | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 44.07    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Aluminum              | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 991.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Zinc                  | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 142.94   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Acute Toxic Substances in water       | Arsenic               | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 360.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Lead                  | 12/1/2003       | 11/30/2010    | 5      | 0.11      | 0        |             | 1.15     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Nickel                | 12/1/2003       | 11/30/2010    | 5      | 2.58      | 0        |             | 93.33    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Zinc                  | 12/1/2003       | 11/30/2010    | 5      | 1.68      | 0        |             | 62.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Chromium              | 12/1/2003       | 11/30/2010    | 5      | 0.05      | 0        |             | 107.46   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Arsenic               | 12/1/2003       | 11/30/2010    | 5      | 1.69      | 0        |             | 190.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Copper                | 12/1/2003       | 11/30/2010    | 5      | 1.78      | 0        |             | 7.26     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Cadmium               | 12/1/2003       | 11/30/2010    | 5      | 0.02      | 0        |             | 0.64     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2001       | 11/30/2010    | 25     | 80.71     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID**

**0303\_04**

Portion of the Sulphur/South Sulphur River from the confluence with Cottonwood Slough approximately 41.5 km (26 mi) upstream to the confluence with the North Sulphur River.

**USE**

**General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 31     |           | 1        | 8.6         | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 31     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 89     | 42.58     | 0        |             | 180.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 92     | 244.28    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 89     | 19.80     | 0        |             | 80.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 33     |           | 1        | 2.25        | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 31     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 33     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 32     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 26     |           | 6        | 23.1        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE**

**Fish Consumption Use**

| Method                                | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water    | Chromium  | 12/1/2003       | 11/30/2010    | 8      | 0.41      | 0        |             | 502.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Lead      | 12/1/2003       | 11/30/2010    | 8      | 0.26      | 0        |             | 3.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water    | Antimony  | 12/1/2003       | 11/30/2010    | 5      | 0.16      | 0        |             | 1,071.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Nickel    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex     | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303\_04

Portion of the Sulphur/South Sulphur River from the confluence with Cottonwood Slough approximately 41.5 km (26 mi) upstream to the confluence with the North Sulphur River.

**USE** Fish Consumption Use

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303\_05 Portion of the Sulphur/South Sulphur River from the confluence with the North Sulphur River approximately 43 km (26.5 mi) upstream to Cooper Lake dam

### USE Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

### USE Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 18     | 70.80     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

### USE General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 92     | 244.28    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 89     | 19.80     | 0        |             | 80.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 89     | 42.58     | 0        |             | 180.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 24     |           | 6        | 19.03       | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

### USE Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 5      | 0.16      | 0        |             | 1,071.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 8      | 0.26      | 0        |             | 3.83     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303\_05 Portion of the Sulphur/South Sulphur River from the confluence with the North Sulphur River approximately 43 km (26.5 mi) upstream to Cooper Lake dam

**USE** Fish Consumption Use

| Method                                | Parameter               | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water    | Chromium                | 12/1/2003       | 11/30/2010    | 8      | 0.41      | 0        |             | 502.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Bioaccumulative Toxics in fish tissue | PCBs                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.13     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Toxaphene               | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.83     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Selenium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 4.38     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Nickel                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 35.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mirex                   | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Mercury                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.53     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Lead                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Hexachlorobenzene (HCB) | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.61     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor              | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Dieldrin                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.06     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Copper                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 250.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Chromium                | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 5.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Cadmium                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.23     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Arsenic                 | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.04     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Aldrin                  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.14     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Zinc                    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 525.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Bioaccumulative Toxics in fish tissue | Heptachlor epoxide      | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.25     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0303A Big Creek Lake (unclassified water body)**

**AUID 0303A\_01** Entire water body

**USE Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Selenium              | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 20.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Chronic Toxic Substances in water     | Selenium              | 12/1/2003       | 11/30/2010    | 3      | 0.11      | 0        |             | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 11     | 6.28      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 12     |           | 1        | 0.39        | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 10     |           | 1        | 0.06        | 0.05     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 11     |           | 3        | 71.33       | 26.70    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 3      | 0.11      | 0        |             | 50.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 12     | 0.27      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 12     | 0.09      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0303B White Oak Creek (unclassified water body)**

**AUID 0303B\_01** Portion of White Oak Creek from the confluence with the South Sulphur River approximately 40 km (25 mi) upstream to the confluence with Lacy Creek.

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 40     |           | 4        | 3.45        | 4.00     | AD      | NC  | <input type="checkbox"/>            | NC      |                            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4.00     | ID      | NA  | <input checked="" type="checkbox"/> | NS      | depressed dissolved oxygen | 5b  |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Acute Toxic Substances in water       | Aluminum                  | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 991.00   | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Acute Toxic Substances in water       | Arsenic                   | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 360.00   | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Acute Toxic Substances in water       | Cadmium                   | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 26.21    | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Acute Toxic Substances in water       | Chromium                  | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 466.42   | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Acute Toxic Substances in water       | Copper                    | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 15.28    | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Acute Toxic Substances in water       | Lead                      | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 56.38    | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Acute Toxic Substances in water       | Nickel                    | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 1,196.65 | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Acute Toxic Substances in water       | Zinc                      | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 96.73    | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Chronic Toxic Substances in water     | Copper                    | 12/1/2003       | 11/30/2010    | 11     | 2.68      | 0        |             | 7.26     | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Chronic Toxic Substances in water     | Zinc                      | 12/1/2003       | 11/30/2010    | 11     | 3.83      | 0        |             | 62.00    | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Chronic Toxic Substances in water     | Lead                      | 12/1/2003       | 11/30/2010    | 10     | 0.33      | 0        |             | 1.15     | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Chronic Toxic Substances in water     | Chromium                  | 12/1/2003       | 11/30/2010    | 11     | 0.60      | 0        |             | 107.46   | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Chronic Toxic Substances in water     | Cadmium                   | 12/1/2003       | 11/30/2010    | 10     | 0.09      | 0        |             | 0.64     | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Chronic Toxic Substances in water     | Arsenic                   | 12/1/2003       | 11/30/2010    | 10     | 1.04      | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Chronic Toxic Substances in water     | Nickel                    | 12/1/2003       | 11/30/2010    | 11     | 4.70      | 0        |             | 93.33    | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303B\_01 Portion of White Oak Creek from the confluence with the South Sulphur River approximately 40 km (25 mi) upstream to the confluence with Lacy Creek.

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 22     | 210.92    | 1        |             | 126.00   | AD      | NS  | <input type="checkbox"/> | NS      | bacteria   | 5b  |

**USE** General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 38     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 28     |           | 4        | 29.7        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 40     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 36     |           | 1        | 0.38        | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 42     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 13     | 0.30      | 0        |             | 3.83     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 11     | 0.15      | 0        |             | 1,071.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 14     | 0.49      | 0        |             | 502.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** **0303B\_02** Portion of White Oak Creek from the confluence with the Lacy Creek approximately 42 km (26 mi) upstream to the confluence with Ripley Creek.

**USE** **Aquatic Life Use**

| Method                        | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause                 | Cat |
|-------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|----------------------------|-----|
| Dissolved Oxygen 24hr average | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | NS      | depressed dissolved oxygen | 5b  |
| Dissolved Oxygen 24hr minimum | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | NS      | depressed dissolved oxygen | 5b  |

**USE** **Fish Consumption Use**

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 11     | 0.15      | 0        |             | 1,071.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 14     | 0.49      | 0        |             | 502.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 13     | 0.30      | 0        |             | 3.83     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303B\_03 Portion of White Oak Creek from the confluence with the Ripley Creek approximately 42 km (26 mi) upstream to Stouts Creek.

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 35     |           | 8        | 3.14        | 4.00     | AD      | CS  | <input type="checkbox"/>            | CS      | depressed dissolved oxygen |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 35     |           | 2        | 1.95        | 3.00     | AD      | FS  | <input type="checkbox"/>            | FS      |                            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | NS      | depressed dissolved oxygen | 5b  |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | NS      | depressed dissolved oxygen | 5b  |
| Acute Toxic Substances in water       | Aluminum                  | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 991.00   | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Acute Toxic Substances in water       | Arsenic                   | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 360.00   | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Acute Toxic Substances in water       | Cadmium                   | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 30.20    | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Acute Toxic Substances in water       | Chromium                  | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 517.07   | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Acute Toxic Substances in water       | Copper                    | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 17.21    | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Acute Toxic Substances in water       | Lead                      | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 66.18    | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Acute Toxic Substances in water       | Nickel                    | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 1,331.12 | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Acute Toxic Substances in water       | Zinc                      | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 107.62   | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Chronic Toxic Substances in water     | Copper                    | 12/1/2003       | 11/30/2010    | 3      | 3.67      | 0        |             | 7.26     | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Chronic Toxic Substances in water     | Zinc                      | 12/1/2003       | 11/30/2010    | 3      | 3.80      | 0        |             | 62.00    | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Chronic Toxic Substances in water     | Lead                      | 12/1/2003       | 11/30/2010    | 3      | 0.20      | 0        |             | 1.15     | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Chronic Toxic Substances in water     | Cadmium                   | 12/1/2003       | 11/30/2010    | 3      | 0.03      | 0        |             | 0.64     | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Chronic Toxic Substances in water     | Arsenic                   | 12/1/2003       | 11/30/2010    | 3      | 2.50      | 0        |             | 190.00   | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Chronic Toxic Substances in water     | Nickel                    | 12/1/2003       | 11/30/2010    | 3      | 3.89      | 0        |             | 93.33    | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |
| Chronic Toxic Substances in water     | Chromium                  | 12/1/2003       | 11/30/2010    | 3      | 0.08      | 0        |             | 107.46   | ID      | NA  | <input type="checkbox"/>            | NA      |                            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303B\_03 Portion of White Oak Creek from the confluence with the Ripley Creek approximately 42 km (26 mi) upstream to Stouts Creek.

### USE Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 20     | 145.52    | 1        |             | 126.00   | JQ      | NS  | <input type="checkbox"/> | CN      | bacteria   |     |

### USE General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 30     |           | 2        | 0.8         | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 24     |           | 1        | 23.2        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 29     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 29     |           | 6        | 0.47        | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 30     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

### USE Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 13     | 0.30      | 0        |             | 3.83     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 11     | 0.15      | 0        |             | 1,071.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 14     | 0.49      | 0        |             | 502.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0303B\_04 Portion of White Oak Creek from the confluence with the Stouts Creek approximately 46 km (28 mi) upstream to Midget Creek.

### USE Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 41     |           | 3        | 3.8         | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      | depressed dissolved oxygen |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 41     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 6      |           | 2        | 4.59        | 4.00     | LD      | CN  | <input type="checkbox"/> | NS      | depressed dissolved oxygen | 5b  |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 5      | 19.40     |          |             | 20.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired habitat           |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 6      | 29.90     |          |             | 29.00    | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 6      | 44.70     |          |             | 42.00    | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |

### USE Recreation Use

| Method                 | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Single Sample | E. coli   | 12/1/2001       | 11/30/2008    | 23     |           | 9        | 949.78      | 394.00   | SM      | NS  | <input type="checkbox"/> | NA      | bacteria   | 5b  |
| Bacteria Geomean       | E. coli   | 12/1/2003       | 11/30/2010    | 29     | 329.20    | 1        |             | 126.00   | AD      | NS  | <input type="checkbox"/> | NS      | bacteria   | 5b  |

### USE General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause       | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------|-----|
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 38     |           | 17       | 1.67        | 0.69     | AD      | CS  | <input type="checkbox"/> | CS      | total phosphorus |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 35     |           | 1        | 17.1        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 36     |           | 3        | 0.9         | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 25     |           | 16       | 1.41        | 0.37     | AD      | CS  | <input type="checkbox"/> | CS      | orthophosphorus  |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 37     |           | 14       | 4.28        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate          |     |

### USE Fish Consumption Use

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 13     | 0.30      | 0        |             | 3.83     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 11     | 0.15      | 0        |             | 1,071.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** **0303B\_04** Portion of White Oak Creek from the confluence with the Stouts Creek approximately 46 km (28 mi) upstream to Midget Creek.

**USE** **Fish Consumption Use**

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 14     | 0.49      | 0        |             | 502.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**AUID** **0303B\_05** Portion of White Oak Creek from the confluence with the Midget Creek approximately 42 km (26 mi) upstream to the headwaters.

**USE** **Fish Consumption Use**

| Method                             | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| HH Bioaccumulative Toxics in water | Chromium  | 12/1/2003       | 11/30/2010    | 14     | 0.49      | 0        |             | 502.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Lead      | 12/1/2003       | 11/30/2010    | 13     | 0.30      | 0        |             | 3.83     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| HH Bioaccumulative Toxics in water | Antimony  | 12/1/2003       | 11/30/2010    | 11     | 0.15      | 0        |             | 1,071.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0303D Rock Creek (unclassified water body)**

**AUID 0303D\_01** Entire water body

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause              | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|-------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      |                         |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 15     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |                         |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 4.00     | LD      | FS  | <input type="checkbox"/> | FS      |                         |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |                         |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 5      | 17.20     |          |             | 19.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired habitat        |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 6      | 29.60     |          |             | 29.00    | AD      | FS  | <input type="checkbox"/> | FS      |                         |     |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 6      | 41.20     |          |             | 42.00    | AD      | NS  | <input type="checkbox"/> | CN      | impaired fish community |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 8      | 272.65    | 1        |             | 126.00   | LD      | CN  | <input type="checkbox"/> | CN      | bacteria   |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause       | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------|-----|
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 13     |           | 11       | 11.43       | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate          |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 13     |           | 12       | 2.06        | 0.69     | AD      | CS  | <input type="checkbox"/> | CS      | total phosphorus |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0303E East Caney Creek (unclassified water body)**

**AUID 0303E\_01** Entire water body

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                      | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |                                 |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 2.00     | LD      | NC  | <input type="checkbox"/> | NC      |                                 |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 2.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 3      | 20.50     |          |             | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      |                                 |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 4      | 22.00     |          |             | 22.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired macrobenthic community |     |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 4      | 42.70     |          |             | 36.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired fish community         |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 7      | 468.79    | 1        |             | 126.00   | LD      | CN  | <input type="checkbox"/> | CN      | bacteria   |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause       | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------|-----|
| Nutrient Screening Levels | Nitrate          | 12/1/2000       | 11/30/2010    | 9      |           | 2        | 2.25        | 1.95     | LD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2000       | 11/30/2010    | 8      |           | 2        | 0.7         | 0.33     | LD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2000       | 11/30/2010    | 9      |           | 6        | 1.12        | 0.69     | LD      | CS  | <input type="checkbox"/> | CS      | total phosphorus |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2000       | 11/30/2010    | 9      |           | 0        |             | 14.10    | LD      | NC  | <input type="checkbox"/> | NC      |                  |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0303F Stouts Creek (unclassified water body)**

**AUID 0303F\_01** Entire water body

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 2.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 4      |           | 1        | 1.86        | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 4      |           | 1        | 1.27        | 2.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 3      | 18.00     |          |             | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 4      | 23.60     |          |             | 22.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 4      | 42.70     |          |             | 36.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 7      | 387.77    | 1        |             | 126.00   | LD      | CN  | <input type="checkbox"/> | CN      | bacteria   |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause       | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------|-----|
| Nutrient Screening Levels | Total Phosphorus | 12/1/2000       | 11/30/2010    | 9      |           | 7        | 1.64        | 0.69     | LD      | CS  | <input type="checkbox"/> | CS      | total phosphorus |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2000       | 11/30/2010    | 8      |           | 3        | 16.7        | 14.10    | LD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2000       | 11/30/2010    | 9      |           | 1        | 2.22        | 1.95     | LD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2000       | 11/30/2010    | 8      |           | 2        | 2.63        | 0.33     | LD      | NC  | <input type="checkbox"/> | NC      |                  |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0303G North Caney Creek (unclassified water body)**

**AUID 0303G\_01** Entire water body

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                      | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 3      |           | 1        | 2.94        | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 2.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 2.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 2      | 16.50     |          |             | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      |                                 |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 2      | 26.30     |          |             | 22.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired macrobenthic community |     |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 2      | 43.80     |          |             | 36.00    | AD      | FS  | <input type="checkbox"/> | FS      |                                 |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 3      | 40.74     | 0        |             | 126.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 3      |           | 1        | 0.52        | 0.33     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 3      |           | 1        | 0.7         | 0.69     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 14.10    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 1.95     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0303I Big Creek (unclassified water body)**

**AUID 0303I\_01** Entire water body

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                      | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 2.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 2      |           | 1        | 1.69        | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 2      |           | 1        | 1.23        | 2.00     | ID      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 2      | 18.10     |          |             | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      |                                 |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 2      | 26.90     |          |             | 22.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired macrobenthic community |     |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 2      | 43.20     |          |             | 36.00    | AD      | FS  | <input type="checkbox"/> | FS      |                                 |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 3      | 151.03    | 1        |             | 126.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 1.95     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 3      |           | 1        | 0.57        | 0.33     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 3      |           | 1        | 0.96        | 0.69     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 14.10    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0303L Kickapoo Creek (unclassified water body)**

**AUID 0303L\_01** Entire water body

**USE Aquatic Life Use**

| Method  | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause       | Cat |
|---------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|------------------|-----|
| Habitat | Habitat   | 12/1/2003       | 11/30/2010    |        | 12.00     |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | CS      | impaired habitat |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID**    0304    Days Creek

**AUID**    0304\_01    Entire water body

**USE**    Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 4.00      | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 3.00      | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 4.00      | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 3.00      | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Toxic Substances in sediment          | Silver                    | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 2.20      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Lead                      | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 128.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Manganese                 | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 1,100.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Mercury                   | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 1.06      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Naphthalene               | 12/1/2003       | 11/30/2010    | 9      |           | 3        | 4324.33     | 561.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Phenanthrene              | 12/1/2003       | 11/30/2010    | 9      |           | 2        | 34350       | 1,170.00  | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | 1,2,4-Trichlorobenzene    | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 5,310.00  | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Zinc                      | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 459.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | 1,3-Dichlorobenzene       | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 350.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Iron                      | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 40,000.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Benz(a)anthracene         | 12/1/2003       | 11/30/2010    | 9      |           | 2        | 5520        | 1,050.00  | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Hexachloroethane          | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 13,770.00 | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Nitrobenzene              | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 161.06    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Toxic Substances in sediment          | Nickel                    | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 48.60     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment          | Di-n-butyl phthalate      | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 43.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0304\_01 Entire water body

**USE** Aquatic Life Use

| Method                       | Parameter                   | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|------------------------------|-----------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Toxic Substances in sediment | Cadmium                     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 4.98     | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment | 1,4-Dichlorobenzene         | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 4,650.00 | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Toxic Substances in sediment | Acenaphthene                | 12/1/2003       | 11/30/2010    | 9      |           | 3        | #####       | 89.00    | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Toxic Substances in sediment | Acenaphthylene              | 12/1/2003       | 11/30/2010    | 9      |           | 2        | 424         | 130.00   | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Toxic Substances in sediment | Anthracene                  | 12/1/2003       | 11/30/2010    | 9      |           | 2        | 5520        | 845.00   | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Toxic Substances in sediment | Hexachlorobutadiene (HCBBD) | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 550.00   | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Toxic Substances in sediment | Benzo(a)pyrene              | 12/1/2003       | 11/30/2010    | 9      |           | 5        | 6462        | 1,450.00 | LD      | CS  | <input type="checkbox"/> | CS      | benzo(a)pyrene in sediment |     |
| Toxic Substances in sediment | Chromium                    | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 111.00   | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment | Chrysene                    | 12/1/2003       | 11/30/2010    | 9      |           | 2        | 4765        | 1,290.00 | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Toxic Substances in sediment | Copper                      | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 149.00   | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment | Pyrene                      | 12/1/2003       | 11/30/2010    | 9      |           | 5        | 49660       | 1,520.00 | LD      | CS  | <input type="checkbox"/> | CS      | pyrene in sediment         |     |
| Toxic Substances in sediment | Dibenz(a,h)anthracene       | 12/1/2003       | 11/30/2010    | 9      |           | 2        | 628.5       | 140.00   | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Toxic Substances in sediment | Fluoranthene                | 12/1/2003       | 11/30/2010    | 9      |           | 5        | 56240       | 2,230.00 | LD      | CS  | <input type="checkbox"/> | CS      | fluoranthene in sediment   |     |
| Toxic Substances in sediment | Fluorene                    | 12/1/2003       | 11/30/2010    | 9      |           | 3        | 48090       | 536.00   | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Toxic Substances in sediment | Hexachlorobenzene (HCB)     | 12/1/2003       | 11/30/2010    | 9      |           | 0        |             | 240.00   | LD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Toxic Substances in sediment | Arsenic                     | 12/1/2003       | 11/30/2010    | 3      |           | 0        |             | 33.00    | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Habitat                      | Habitat                     | 12/1/2003       | 11/30/2010    | 12     | 21.00     |          |             | 14.00    | AD      | NC  | <input type="checkbox"/> | NC      |                            |     |
| Macrobenthic Community       | Macrobenthic Community      | 12/1/2003       | 11/30/2010    | 12     | 26.20     |          |             | 22.00    | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Fish Community               | Fish Community              | 12/1/2003       | 11/30/2010    | 12     | 39.50     |          |             | 36.00    | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

|             |                |                   |
|-------------|----------------|-------------------|
| <b>AUID</b> | <b>0304_01</b> | Entire water body |
|-------------|----------------|-------------------|

|            |                       |
|------------|-----------------------|
| <b>USE</b> | <b>Recreation Use</b> |
|------------|-----------------------|

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 25     | 114.69    | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

|            |                    |
|------------|--------------------|
| <b>USE</b> | <b>General Use</b> |
|------------|--------------------|

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 32.20    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 35     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 47     | 294.34    | 0        |             | 850.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 28     | 41.83     | 0        |             | 525.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 28     | 43.97     | 0        |             | 75.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 28     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 27     |           | 25       | 10.17       | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 26     |           | 3        | 0.43        | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 28     |           | 4        | 1.52        | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0304A Swampoodle Creek (unclassified water body)**

**AUID 0304A\_01** Entire water body

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause                      | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|---------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 5      |           | 1        | 3.6         | 5.00     | LD      | NC  | <input type="checkbox"/>            | NC      |                                 |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/>            | NC      |                                 |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 5      |           | 1        | 4.5         | 5.00     | LD      | NC  | <input type="checkbox"/>            | NC      |                                 |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/>            | NC      |                                 |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | NS      | impaired macrobenthic community | 5b  |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | NS      | impaired fish community         | 5b  |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 2      | 770.71    | 1        |             | 126.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 1.95     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 14.10    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 0.69     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.33     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 2      |           | 0        |             | 0.37     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0304B Cowhorn Creek (unclassified water body)**

**AUID 0304B\_01** Entire water body

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                      | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 14     |           | 1        | 4.8         | 5.00     | TR      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 14     |           | 0        |             | 3.00     | TR      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 12     |           | 3        | 4.36        | 5.00     | TR      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 12     |           | 1        | 2.8         | 3.00     | TR      | NA  | <input type="checkbox"/> | NA      |                                 |     |
| Habitat                               | Habitat                   | 12/1/2003       | 11/30/2010    | 1      | 18.00     |          |             | 20.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired habitat                |     |
| Macrobenthic Community                | Macrobenthic Community    | 12/1/2003       | 11/30/2010    | 2      | 21.80     |          |             | 29.00    | AD      | NS  | <input type="checkbox"/> | NS      | impaired macrobenthic community | 5b  |
| Fish Community                        | Fish Community            | 12/1/2003       | 11/30/2010    | 2      | 37.50     |          |             | 42.00    | AD      | NS  | <input type="checkbox"/> | NS      | impaired fish community         | 5b  |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 8      | 115.15    | 0        |             | 126.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Nitrate          | 12/1/2000       | 11/30/2010    | 12     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2000       | 11/30/2010    | 8      |           | 0        |             | 0.37     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2000       | 11/30/2010    | 12     |           | 1        | 0.38        | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2000       | 11/30/2010    | 12     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2000       | 11/30/2010    | 10     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0304C Wagner Creek (unclassified water body)**

**AUID 0304C\_01** Entire water body and WQS Appendix D portion of the water body.

**USE Aquatic Life Use**

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause                 | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|----------------------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 22     |           | 4        | 3.5         | 4.00      | AD      | CS  | <input type="checkbox"/> | CS      | depressed dissolved oxygen |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2003       | 11/30/2010    | 22     |           | 0        |             | 3.00      | AD      | FS  | <input type="checkbox"/> | FS      |                            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2003       | 11/30/2010    | 4      |           | 2        | 2.65        | 4.00      | LD      | CN  | <input type="checkbox"/> | CN      | depressed dissolved oxygen |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2003       | 11/30/2010    | 4      |           | 2        | 2.17        | 3.00      | LD      | CN  | <input type="checkbox"/> | CN      | depressed dissolved oxygen |     |
| Toxic Substances in sediment          | Silver                    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2.20      | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | 1,2,4-Trichlorobenzene    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5,310.00  | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Manganese                 | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,100.00  | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Fluorene                  | 12/1/2003       | 11/30/2010    | 1      |           | 1        | 8640        | 536.00    | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Mercury                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1.06      | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Naphthalene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 561.00    | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Nickel                    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 48.60     | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Pyrene                    | 12/1/2003       | 11/30/2010    | 1      |           | 1        | 9410        | 1,520.00  | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Zinc                      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 459.00    | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | 1,3-Dichlorobenzene       | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 350.00    | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Iron                      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 40,000.00 | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Benz(a)anthracene         | 12/1/2003       | 11/30/2010    | 1      |           | 1        | 4020        | 1,050.00  | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Di-n-butyl phthalate      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 43.00     | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Nitrobenzene              | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 161.06    | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |
| Toxic Substances in sediment          | Lead                      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 128.00    | ID      | NA  | <input type="checkbox"/> | NA      |                            |     |

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**AUID** 0304C\_01 Entire water body and WQS Appendix D portion of the water body.

**USE** Aquatic Life Use

| Method                       | Parameter                  | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria  | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------------------|----------------------------|-----------------|---------------|--------|-----------|----------|-------------|-----------|---------|-----|--------------------------|---------|------------|-----|
| Toxic Substances in sediment | Phenanthrene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,170.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | 1,4-Dichlorobenzene        | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4,650.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Hexachlorobenzene (HCB)    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 240.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Fluoranthene               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 2,230.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Dibenz(a,h)anthracene      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 140.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Copper                     | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 149.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chrysene                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,290.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Chromium                   | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 111.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Cadmium                    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 4.98      | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Benzo(a)pyrene             | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 1,450.00  | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Arsenic                    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 33.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Anthracene                 | 12/1/2003       | 11/30/2010    | 1      |           | 1        | 4340        | 845.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Acenaphthylene             | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 130.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Acenaphthene               | 12/1/2003       | 11/30/2010    | 1      |           | 1        | 8040        | 89.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Hexachloroethane           | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 13,770.00 | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Toxic Substances in sediment | Hexachlorobutadiene (HCBd) | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 550.00    | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Habitat                      | Habitat                    | 12/1/2003       | 11/30/2010    | 4      |           |          |             | 14.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Macrobenthic Community       | Macrobenthic Community     | 12/1/2003       | 11/30/2010    | 4      | 25.60     |          |             | 22.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Fish Community               | Fish Community             | 12/1/2003       | 11/30/2010    | 4      | 43.40     |          |             | 36.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0304C\_01 Entire water body and WQS Appendix D portion of the water body.

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 9      | 112.42    | 0        |             | 126.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Nutrient Screening Levels | Nitrate          | 12/1/2000       | 11/30/2010    | 11     |           | 5        | 4.51        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate    |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2000       | 11/30/2010    | 4      |           | 1        | 0.57        | 0.37     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2000       | 11/30/2010    | 12     |           | 7        | 0.59        | 0.33     | AD      | CS  | <input type="checkbox"/> | CS      | ammonia    |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2000       | 11/30/2010    | 12     |           | 4        | 1.8         | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2000       | 11/30/2010    | 12     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**SEGID** 0304D Nix Creek (unclassified water body)

**AUID** 0304D\_01 Entire water body

**USE** Aquatic Life Use

| Method                 | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause       | Cat |
|------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------|-----|
| Habitat                | Habitat                | 12/1/2003       | 11/30/2010    | 2      | 18.00     |          |             | 20.00    | AD      | CS  | <input type="checkbox"/> | CS      | impaired habitat |     |
| Macrobenthic Community | Macrobenthic Community | 12/1/2003       | 11/30/2010    | 2      | 29.20     |          |             | 29.00    | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Fish Community         | Fish Community         | 12/1/2003       | 11/30/2010    | 2      | 42.30     |          |             | 42.00    | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID**    **0305**    **North Sulphur River**

**AUID**    **0305\_01**    Portion of the North Sulphur River from the confluence with the Sulphur/South Sulphur upstream approximately 41 km (25 mi) to Morrison Creek

**USE**    **Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    **Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 18     | 87.01     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE**    **General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause    | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|---------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 1        | 9.2         | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 42     | 579.43    | 0        |             | 1,320.00 | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 38     | 34.62     | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 38     | 264.98    | 0        |             | 475.00   | AD      | FS  | <input type="checkbox"/> | FS      |               |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 25     |           | 2        | 2.87        | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 24     |           | 7        | 27.69       | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |               |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0305\_02 Portion of the North Sulphur River from the confluence with Morrison Creek upstream approximately 37 km (23 mi) to the headwaters.

**USE** Aquatic Life Use

| Method                                | Parameter                   | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab       | 12/1/2003       | 11/30/2010    | 12     |           | 1        | 4.9         | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab       | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg   | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min   | 12/1/2003       | 11/30/2010    | 6      |           | 0        |             | 3.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Habitat                               | Habitat                     | 12/1/2003       | 11/30/2010    | 4      | 20.00     |          |             | 14.00    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Macroinvertebrate Community           | Macroinvertebrate Community | 12/1/2003       | 11/30/2010    | 4      | 21.31     |          |             | 22.00    | AD      | NS  | <input type="checkbox"/> | FS      |            |     |
| Fish Community                        | Fish Community              | 12/1/2003       | 11/30/2010    | 4      | 39.30     |          |             | 35.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 12     | 9.08      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 8.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 42     | 579.43    | 0        |             | 1,320.00 | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 38     | 34.62     | 0        |             | 190.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 38     | 264.98    | 0        |             | 475.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 12     |           | 3        | 3.06        | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0305B Auds Creek (unclassified water body)**

**AUID 0305B\_01** Entire water body

**USE Aquatic Life Use**

| Method                 | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause                      | Cat |
|------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|---------------------------------|-----|
| Habitat                | Habitat                | 12/1/2003       | 11/30/2010    |        | 18.00     |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | CS      | impaired habitat                |     |
| Macrobenthic Community | Macrobenthic Community | 12/1/2003       | 11/30/2010    |        | 25.80     |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | CN      | impaired macrobenthic community |     |

**SEGID 0305D Big Sandy Creek (unclassified water body)**

**AUID 0305D\_01** Entire water body

**USE Aquatic Life Use**

| Method                 | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause                      | Cat |
|------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|---------------------------------|-----|
| Habitat                | Habitat                | 12/1/2003       | 11/30/2010    |        | 16.00     |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | CS      | impaired habitat                |     |
| Macrobenthic Community | Macrobenthic Community | 12/1/2003       | 11/30/2010    |        | 24.20     |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | CN      | impaired macrobenthic community |     |



## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID 0306 Upper South Sulphur River**

**AUID 0306\_01** Portion of the Upper South Sulphur River from a point 1 km (.6 mi) upstream of SH 71 upstream approximately 10 km (6 mi) to Dunbar Creek.

**USE Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 18     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 17     | 31.47     | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE General Use**

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause       | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 21     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 33     | 322.40    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 30     | 33.53     | 0        |             | 80.00    | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 30     | 43.87     | 0        |             | 180.00   | AD      | FS  | <input type="checkbox"/> | FS      |                  |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 18     |           | 16       | 9.03        | 1.95     | AD      | CS  | <input type="checkbox"/> | CS      | nitrate          |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 17     |           | 15       | 1.2         | 0.37     | AD      | CS  | <input type="checkbox"/> | CS      | orthophosphorus  |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |                  |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 19     |           | 17       | 1.43        | 0.69     | AD      | CS  | <input type="checkbox"/> | CS      | total phosphorus |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 16     |           | 14       | 80.71       | 14.10    | AD      | CS  | <input type="checkbox"/> | CS      | chlorophyll-a    |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0306\_02 Portion of the Upper South Sulphur River from the confluence with Dunbar Creek approximately 42 km (26 mi) to Hickory Creek..

### USE Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 4.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

### USE Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 9      | 10.90     | 0        |             | 126.00   | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

### USE General Use

| Method                    | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature            | 12/1/2003       | 11/30/2010    | 16     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH                     | 12/1/2003       | 11/30/2010    | 19     |           | 0        |             | 6.50     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Sulfate                | 12/1/2003       | 11/30/2010    | 30     | 43.87     | 0        |             | 180.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 33     | 322.40    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Dissolved Solids          | Chloride               | 12/1/2003       | 11/30/2010    | 30     | 33.53     | 0        |             | 80.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Chlorophyll-a          | 12/1/2003       | 11/30/2010    | 11     |           | 1        | 22.2        | 14.10    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus       | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 0.69     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia                | 12/1/2003       | 11/30/2010    | 12     |           | 1        | 0.42        | 0.33     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate                | 12/1/2003       | 11/30/2010    | 12     |           | 0        |             | 1.95     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus        | 12/1/2003       | 11/30/2010    | 11     |           | 0        |             | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0306\_03 Portion of the Upper South Sulphur River from the confluence with Hickory Creek approximately 19 km (12 mi) to SH 71.

**USE** General Use

| Method           | Parameter              | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause | Cat |
|------------------|------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|------------|-----|
| High pH          | pH                     | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | NS      | pH         | 5b  |
| Dissolved Solids | Sulfate                | 12/1/2003       | 11/30/2010    | 30     | 43.87     | 0        |             | 180.00   | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids | Total Dissolved Solids | 12/1/2003       | 11/30/2010    | 33     | 322.40    | 0        |             | 600.00   | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |
| Dissolved Solids | Chloride               | 12/1/2003       | 11/30/2010    | 30     | 33.53     | 0        |             | 80.00    | AD      | FS  | <input type="checkbox"/>            | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**SEGID**    **0307**    **Cooper Lake**

**AUID**    **0307\_01**

Lower 5000 acres near dam

**USE**    **Aquatic Life Use**

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 5.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 3.00     | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE**    **Recreation Use**

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 1      | 10.00     | 0        |             | 126.00   | ID      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE**    **General Use**

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|------------|-----|
| Water Temperature         | Temperature      | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 33.90    | ID      | NA  | <input type="checkbox"/>            | NA      |            |     |
| High pH                   | pH               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 9.00     | ID      | NA  | <input checked="" type="checkbox"/> | NS      | pH         | 5b  |
| Low pH                    | pH               | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 6.00     | ID      | NA  | <input type="checkbox"/>            | NA      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 0.05     | ID      | NA  | <input type="checkbox"/>            | NA      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 26.70    | ID      | NA  | <input type="checkbox"/>            | NA      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 0.11     | ID      | NA  | <input type="checkbox"/>            | NA      |            |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 0.37     | ID      | NA  | <input type="checkbox"/>            | NA      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 1      |           | 0        |             | 0.20     | ID      | NA  | <input type="checkbox"/>            | NA      |            |     |

**USE**    **Public Water Supply Use**

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 47     | 0.15      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 47     | 0.19      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 4      | 0.11      | 0        |             | 50.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0307\_02 Lower 3000 acre Doctors Creek arm

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 20     | 4.96      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature      | 12/1/2003       | 11/30/2010    | 25     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH               | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH               | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 21     |           | 2        | 32.05       | 26.70    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 24     |           | 5        | 0.66        | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 23     |           | 1        | 0.07        | 0.05     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 24     |           | 1        | 0.12        | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 24     |           | 0        |             | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 4      | 0.11      | 0        |             | 50.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 47     | 0.15      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 47     | 0.19      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0307\_03 Middle 5000 acres

**USE** General Use

| Method  | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause | Cat |
|---------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|------------|-----|
| High pH | pH        | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | NS      | pH         | 5b  |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 47     | 0.15      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 47     | 0.19      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 4      | 0.11      | 0        |             | 50.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**AUID** 0307\_04 Middle 2000 acre Johns Creek arm

**USE** General Use

| Method  | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                                  | Int LOS | TCEQ Cause | Cat |
|---------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|-------------------------------------|---------|------------|-----|
| High pH | pH        | 12/1/2003       | 11/30/2010    |        |           |          |             |          | ID      | NA  | <input checked="" type="checkbox"/> | NS      | pH         | 5b  |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 4      | 0.11      | 0        |             | 50.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 47     | 0.19      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 47     | 0.15      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0307\_05 Middle 1000 acres near Finley Branch

**USE** Aquatic Life Use

| Method                                | Parameter             | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|-----------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 5.00     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 3.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Acute Toxic Substances in water       | Selenium              | 12/1/2003       | 11/30/2010    | 4      |           | 0        |             | 20.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Chronic Toxic Substances in water     | Selenium              | 12/1/2003       | 11/30/2010    | 4      | 0.11      | 0        |             | 5.00     | LD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Recreation Use

| Method           | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|------------------|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Bacteria Geomean | E. coli   | 12/1/2003       | 11/30/2010    | 19     | 4.76      | 0        |             | 126.00   | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

**USE** General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature      | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 33.90    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| High pH                   | pH               | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 9.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Low pH                    | pH               | 12/1/2003       | 11/30/2010    | 23     |           | 0        |             | 6.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 22     |           | 3        | 0.7         | 0.37     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 21     |           | 2        | 0.07        | 0.05     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 22     |           | 1        | 0.13        | 0.11     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 22     |           | 0        |             | 0.20     | AD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 19     |           | 3        | 28.2        | 26.70    | AD      | NC  | <input type="checkbox"/> | NC      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 47     | 0.15      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 4      | 0.11      | 0        |             | 50.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 47     | 0.19      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |

## 2012 Texas Integrated Report: Assessment Results for Basin 3 - Sulphur River

**AUID** 0307\_06 Upper 3305 Acres in the headwaters

**USE** Aquatic Life Use

| Method                                | Parameter                 | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------------------|---------------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Dissolved Oxygen grab screening level | Dissolved Oxygen Grab     | 12/1/2000       | 11/30/2010    | 10     |           | 7        | 3.07        | 5.00     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen grab minimum         | Dissolved Oxygen Grab     | 12/1/2000       | 11/30/2010    | 10     |           | 3        | 1.67        | 3.00     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen 24hr average         | Dissolved Oxygen 24hr Avg | 12/1/2000       | 11/30/2010    | 10     |           | 7        | 2.86        | 5.00     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Dissolved Oxygen 24hr minimum         | Dissolved Oxygen 24hr Min | 12/1/2000       | 11/30/2010    | 10     |           | 6        | 1.52        | 3.00     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** General Use

| Method                    | Parameter        | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---------------------------|------------------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Water Temperature         | Temperature      | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 33.90    | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| High pH                   | pH               | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 9.00     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Low pH                    | pH               | 12/1/2003       | 11/30/2010    | 5      |           | 0        |             | 6.00     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Orthophosphorus  | 12/1/2003       | 11/30/2010    | 5      |           | 4        | 0.23        | 0.05     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Ammonia          | 12/1/2003       | 11/30/2010    | 5      |           | 4        | 0.2         | 0.11     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Total Phosphorus | 12/1/2003       | 11/30/2010    | 5      |           | 4        | 0.32        | 0.20     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Chlorophyll-a    | 12/1/2003       | 11/30/2010    | 4      |           | 2        | 85.05       | 26.70    | SR      | NA  | <input type="checkbox"/> | NA      |            |     |
| Nutrient Screening Levels | Nitrate          | 12/1/2003       | 11/30/2010    | 5      |           | 4        | 1.4         | 0.37     | SR      | NA  | <input type="checkbox"/> | NA      |            |     |

**USE** Public Water Supply Use

| Method                                    | Parameter | ASMT Start Date | ASMT End Date | # Assd | Mean assd | # exceed | Mean exceed | Criteria | DS Qual | LOS | CF                       | Int LOS | TCEQ Cause | Cat |
|---|-----------|-----------------|---------------|--------|-----------|----------|-------------|----------|---------|-----|--------------------------|---------|------------|-----|
| Surface Water HH criteria for PWS average | Selenium  | 12/1/2003       | 11/30/2010    | 4      | 0.11      | 0        |             | 50.00    | LD      | NC  | <input type="checkbox"/> | NC      |            |     |
| Surface Water HH criteria for PWS average | Fluoride  | 12/1/2003       | 11/30/2010    | 47     | 0.15      | 0        |             | 4.00     | AD      | FS  | <input type="checkbox"/> | FS      |            |     |
| Surface Water HH criteria for PWS average | Nitrate   | 12/1/2003       | 11/30/2010    | 47     | 0.19      | 0        |             | 10.00    | AD      | FS  | <input type="checkbox"/> | FS      |            |     |