

Segment ID: 0509 Water body name: Murvaul Lake

Reservoir

Sabine River Basin

Total size:

3,827 Acres

| Assessment Year | Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|-----------------|-------------------|----------------------------------|----------|---------------|--------------|------------------|------|
|-----------------|-------------------|----------------------------------|----------|---------------|--------------|------------------|------|

**Aquatic Life Use**

|      |                               |                         |                  |       |   |   |  |
|------|-------------------------------|-------------------------|------------------|-------|---|---|--|
| 2002 | Dissolved Oxygen grab average | Not Assessed            | Entire reservoir | 3,827 | 5 | 0 |  |
| 2002 | Dissolved Oxygen grab minimum | No Concern-Limited Data | Entire reservoir | 3,827 | 5 | 0 |  |
| 2002 | Dissolved Oxygen 24hr average | Not Assessed            | Entire reservoir | 3,827 | 0 |   |  |
| 2002 | Dissolved Oxygen 24hr minimum | Not Assessed            | Entire reservoir | 3,827 | 0 |   |  |
| 2002 | Acute Metals in water         | Not Assessed            | Entire reservoir | 3,827 | 1 |   |  |
| 2002 | Chronic Metals in water       | Not Assessed            | Entire reservoir | 3,827 | 1 |   |  |
| 2002 | Overall Aquatic Life Use      | Not Assessed            | Entire reservoir | 3,827 |   |   |  |

**Contact Recreation Use**

|      |                               |              |                  |       |   |  |  |
|------|-------------------------------|--------------|------------------|-------|---|--|--|
| 2002 | E. coli single sample         | Not Assessed | Entire reservoir | 3,827 | 2 |  |  |
| 2002 | E. coli geometric mean        | Not Assessed | Entire reservoir | 3,827 | 2 |  |  |
| 2002 | Fecal coliform single sample  | Not Assessed | Entire reservoir | 3,827 | 4 |  |  |
| 2002 | Fecal coliform geometric mean | Not Assessed | Entire reservoir | 3,827 | 4 |  |  |
| 2002 | Overall Recreation Use        | Not Assessed | Entire reservoir | 3,827 |   |  |  |

**General Use**

|      |                   |                         |                  |       |   |   |  |
|------|-------------------|-------------------------|------------------|-------|---|---|--|
| 2002 | Water Temperature | No Concern-Limited Data | Entire reservoir | 3,827 | 5 | 0 |  |
| 2002 | pH                | No Concern-Limited Data | Entire reservoir | 3,827 | 5 | 0 |  |

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Reservoir Sabine River Basin Total size: 3,827 Acres

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|-----------------|-------------------|----------------------------------|----------|---------------|--------------|------------------|------|
|-----------------|-------------------|----------------------------------|----------|---------------|--------------|------------------|------|

**General Use** (continued)

|      |                        |                         |                  |       |   |  |       |
|------|------------------------|-------------------------|------------------|-------|---|--|-------|
| 2002 | Chloride               | No Concern-Limited Data | Entire reservoir | 3,827 | 6 |  | 17    |
| 2002 | Sulfate                | No Concern-Limited Data | Entire reservoir | 3,827 | 6 |  | 16.4  |
| 2002 | Total Dissolved Solids | No Concern-Limited Data | Entire reservoir | 3,827 | 5 |  | 104.4 |
| 2002 | Overall General Use    | Not Assessed            | Entire reservoir | 3,827 |   |  |       |

**Fish Consumption Use**

|      |                              |              |                  |       |   |  |  |
|------|------------------------------|--------------|------------------|-------|---|--|--|
| 2002 | Human Health Criteria Metals | Not Assessed | Entire reservoir | 3,827 | 1 |  |  |
| 2002 | Overall Fish Consumption Use | Not Assessed | Entire reservoir | 3,827 |   |  |  |

**Public Water Supply Use**

|      |   |                         |                  |       |   |  |      |
|------|---|-------------------------|------------------|-------|---|--|------|
| 2002 | Finished Water: Running Avg                               | Fully Supporting        | Entire reservoir | 3,827 |   |  |      |
| 2002 | Surface Water: Long-term average Nitrate+Nitrite Nitrogen | No Concern-Limited Data | Entire reservoir | 3,827 | 5 |  | 0.06 |
| 2002 | Overall Public Water Supply Use                           | Fully Supporting        | Entire reservoir | 3,827 |   |  |      |

**Overall Use Support**

|      |  |                  |                  |       |  |  |  |
|------|--|------------------|------------------|-------|--|--|--|
| 2002 |  | Fully Supporting | Entire reservoir | 3,827 |  |  |  |
|------|--|------------------|------------------|-------|--|--|--|

**Nutrient Enrichment Concern**

|      |                            |              |                  |       |   |  |  |
|------|----------------------------|--------------|------------------|-------|---|--|--|
| 2002 | Ammonia Nitrogen           | Not Assessed | Entire reservoir | 3,827 | 5 |  |  |
| 2002 | Nitrite + Nitrate Nitrogen | Not Assessed | Entire reservoir | 3,827 | 5 |  |  |
| 2002 | Orthophosphorus            | Not Assessed | Entire reservoir | 3,827 | 5 |  |  |

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|-----------------|-------------------|----------------------------------|----------|---------------|--------------|------------------|------|
|-----------------|-------------------|----------------------------------|----------|---------------|--------------|------------------|------|

**Nutrient Enrichment Concern** (continued)

|      |                                      |              |                  |       |   |  |  |
|------|--------------------------------------|--------------|------------------|-------|---|--|--|
| 2002 | Total Phosphorus                     | Not Assessed | Entire reservoir | 3,827 | 5 |  |  |
| 2002 | Overall Nutrient Enrichment Concerns | Not Assessed | Entire reservoir | 3,827 |   |  |  |

**Algal Growth Concern**

|      |               |              |                  |       |   |  |  |
|------|---------------|--------------|------------------|-------|---|--|--|
| 2002 | Chlorophyll a | Not Assessed | Entire reservoir | 3,827 | 5 |  |  |
|------|---------------|--------------|------------------|-------|---|--|--|

**Sediment Contaminants Concern**

|      |                                       |              |                  |       |   |  |  |
|------|---------------------------------------|--------------|------------------|-------|---|--|--|
| 2002 | Metals in sediment                    | Not Assessed | Entire reservoir | 3,827 | 1 |  |  |
| 2002 | Overall Sediment Contaminant Concerns | Not Assessed | Entire reservoir | 3,827 |   |  |  |

**Fish Tissue Contaminants Concern**

|      |  |            |                  |       |    |   |  |
|------|--|------------|------------------|-------|----|---|--|
| 2002 | Metals in fish tissue                    | No Concern | Entire reservoir | 3,827 | 18 | 0 |  |
| 2002 | Overall Fish Tissue Contaminant Concerns | No Concern | Entire reservoir | 3,827 |    |   |  |

**Public Water Supply Concern**

|      |  |              |                  |       |  |  |  |
|------|--|--------------|------------------|-------|--|--|--|
| 2002 | Finished Water: Chloride               | No Concern   | Entire reservoir | 3,827 |  |  |  |
| 2002 | Finished Water: Sulfate                | No Concern   | Entire reservoir | 3,827 |  |  |  |
| 2002 | Finished Water: Total Dissolved Solids | No Concern   | Entire reservoir | 3,827 |  |  |  |
| 2002 | Finished Water: MTBE                   | No Concern   | Entire reservoir | 3,827 |  |  |  |
| 2002 | Finished Water: Perchlorate            | Not Assessed | Entire reservoir | 3,827 |  |  |  |
| 2002 | Finished Water: Overall                | No Concern   | Entire reservoir | 3,827 |  |  |  |

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|-----------------|-------------------|----------------------------------|----------|---------------|--------------|------------------|------|
|-----------------|-------------------|----------------------------------|----------|---------------|--------------|------------------|------|

**Public Water Supply Concern** (continued)

|      |                                       |              |                  |       |   |  |       |
|------|---------------------------------------|--------------|------------------|-------|---|--|-------|
| 2002 | Surface Water: Chloride               | Not Assessed | Entire reservoir | 3,827 | 6 |  | 17    |
| 2002 | Surface Water: Sulfate                | Not Assessed | Entire reservoir | 3,827 | 6 |  | 16.4  |
| 2002 | Surface Water: Total Dissolved Solids | Not Assessed | Entire reservoir | 3,827 | 5 |  | 104.4 |
| 2002 | Surface Water: Overall                | Not Assessed | Entire reservoir | 3,827 |   |  |       |
| 2002 | Overall Public Water Supply Concerns  | No Concern   | Entire reservoir | 3,827 |   |  |       |

**Narrative Criteria Concern**

|      |                                     |            |                  |       |  |  |  |
|------|-------------------------------------|------------|------------------|-------|--|--|--|
| 2002 | Overall Narrative Criteria Concerns | No Concern | Entire reservoir | 3,827 |  |  |  |
|------|-------------------------------------|------------|------------------|-------|--|--|--|

**Overall Secondary Concern**

|      |  |            |                  |       |  |  |  |
|------|--|------------|------------------|-------|--|--|--|
| 2002 |  | No Concern | Entire reservoir | 3,827 |  |  |  |
|------|--|------------|------------------|-------|--|--|--|