

## A Guide to the Data Sheet for the 2004 Water Quality Inventory

The Data Sheet is designed to present the results of the 2004 water quality assessment. The Data Sheet does not provide the individual water quality measurements used in the assessment; rather, it summarizes the monitoring data into information used to make water quality determinations.

The page header identifies the water body and provides a limited amount of descriptive information. For a more detailed description of the water body, please see the Fact Sheet.

**DRAFT 2004 Water Quality Inventory** (data from 03/01/1998 to 02/28/2003)

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**Segment ID: 0610**      **Water body name: Sam Rayburn Reservoir**

Reservoir

Neches River Basin

Total size:

114,500

Acres

The main section of the report describes the designated uses and secondary concerns, the assessment methods, and the results of the assessment for one or more areas of the water body.

### Explanation of Column Headings

Assessment Year:	Indicates the most recent year that this assessment information was updated. Water bodies not targeted in the 2004 Water Quality Inventory do not contain an Assessment Year on the Data Sheet.
Assessment Method:	One or more assessment methods are used to determine if the use is supported by comparing monitoring data against specific criteria. For example, the method "Dissolved oxygen grab average" indicates that instantaneous (grab sample) dissolved oxygen measurements for a specific assessment area were compared against the average dissolved oxygen criterion for the water body. Methods described as "Overall," such as "Overall Aquatic Life Use," summarize the overall results for each use by area. For more information about assessment methods, see the <i>Guidance for Assessing Texas Surface and Finished Drinking Water Quality Data (Guidance)</i> .
Status of Use Support or Concern:	The level of use support or concern status indicates the degree to which the water body area meets the assessment method requirements. For evaluation of use support, the status levels are Fully Supporting, Use Concern- Limited Data (Tier 1 concern), Use Concern (Tier 2 concern), Partially Supporting, Not Supporting, and Not Assessed. For evaluation of secondary concern status, the levels are No Concern, Concern, and Not Assessed. For more information about use support and concern status, please see the <i>Guidance</i> .
Location:	The area assessed for each method. Specific TCEQ monitoring stations for each area are identified on the Fact Sheet.
Location Size:	The size of the assessment area. The unit of measure is shown in the header.
# of samples:	Each method, when assessed, will show the number of the samples (measurements) considered. Exceptions include fish consumption advisories, public water supply use, and the overall use summaries.
# of exceedances:	For methods which are evaluated based on how often a measurement exceeds criteria, the number of measurements that exceed criteria will be shown. Exceptions include methods which are evaluated by comparing measurement averages to the criteria.
Mean:	For methods which are evaluated by comparing an average of the water quality measurements to the average criterion, the mean of the measurements will be shown. Examples include bacterial geometric means, chronic criteria, and the dissolved solids.

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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The assessment results are sorted by designated use and secondary concern. For each, one or more methods are used to evaluate the use or concern by comparing data values to numerical criteria described in the *Texas Surface Water Quality Standards* and in the *Guidance*. There are also "Overall Use Support" and "Overall Secondary Concern" sections, which do not have assessment methods; these sections simply summarize the use or concern results by assessment area.

### Aquatic Life Use

2002	Dissolved Oxygen grab average	No Concern	Bear Creek arm	6,106	25	0	
2002	Dissolved Oxygen grab average	Not Assessed	Extreme upper Angelina River arm	3,759	9	2	
2002	Dissolved Oxygen grab average	No Concern	Lower Angelina River arm	27,621	22	1	
2002	Dissolved Oxygen grab average	No Concern	Lower Attoyac Bayou arm	6,206	25	1	
2002	Dissolved Oxygen grab average	No Concern	Lower Ayish Bayou arm	9,676	35	0	
2002	Dissolved Oxygen grab average	No Concern	Main pool by the dam	16,372	43	0	
2002	Dissolved Oxygen grab average	No Concern	Mid-Angelina River arm (SH 147)	20,331	27	0	
2002	Dissolved Oxygen grab average	Use Concern	Upper Angelina River arm	7,967	18	4	
2002	Dissolved Oxygen grab average	Use Concern	Upper Attoyac Bayou arm	4,261	13	3	
2002	Dissolved Oxygen grab average	No Concern	Upper Ayish Bayou arm	3,365	17	2	
2002	Dissolved Oxygen grab average	No Concern	Upper mid-Angelina River arm	8,836	39	1	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Bear Creek arm	6,106	25	0	
2002	Dissolved Oxygen grab minimum	No Concern-Limited Data	Extreme upper Angelina River arm	3,759	9	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Lower Angelina River arm	27,621	22	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Lower Attoyac Bayou arm	6,206	25	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Lower Ayish Bayou arm	9,676	35	0	
2002	Dissolved Oxygen grab	Fully Supporting	Main pool by the dam	16,372	43	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Mid-Angelina River arm (SH 147)	20,331	27	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Upper Angelina River arm	7,967	18	0	

2002	Dissolved Oxygen grab minimum	Fully Supporting	Upper Attoyac Bayou arm	4,261	13	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Upper Ayish Bayou arm	3,365	17	0	
2002	Dissolved Oxygen grab	Fully Supporting	Upper mid-Angelina River arm	8,836	39	0	
2002	Dissolved Oxygen 24hr average	Not Assessed	Bear Creek arm	6,106	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Extreme upper Angelina River arm	3,759	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Lower Angelina River arm	27,621	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Lower Attoyac Bayou arm	6,206	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Lower Ayish Bayou arm	9,676	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Main pool by the dam	16,372	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Mid-Angelina River arm (SH 147)	20,331	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Upper Angelina River arm	7,967	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Upper Attoyac Bayou arm	4,261	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Upper Ayish Bayou arm	3,365	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Upper mid-Angelina River arm	8,836	0		
2002	Dissolved Oxygen 24hr	Not Assessed	Bear Creek arm	6,106	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Extreme upper Angelina River arm	3,759	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Lower Angelina River arm	27,621	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Lower Attoyac Bayou arm	6,206	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Lower Ayish Bayou arm	9,676	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Main pool by the dam	16,372	0		
2002	Dissolved Oxygen 24hr	Not Assessed	Mid-Angelina River arm (SH 147)	20,331	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Upper Angelina River arm	7,967	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Upper Attoyac Bayou arm	4,261	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Upper Ayish Bayou arm	3,365	0		

2002	Dissolved Oxygen 24hr minimum	Not Assessed	Upper mid-Angelina River arm	8,836	0		
2004	Acute Metals in water	Not Assessed	Bear Creek arm	6,106	2	0	
2004	Acute Metals in water	Not Assessed	Extreme upper Angelina River arm	3,759	0		
2004	Acute Metals in water	Not Assessed	Lower Angelina River arm	27,621	2	0	
2004	Acute Metals in water	Not Assessed	Lower Angelina River arm	27,621	2	1	
2004	Acute Metals in water	Not Assessed	Lower Attoyac Bayou arm	6,206	2	0	
2004	Acute Metals in water	Not Assessed	Lower Attoyac Bayou arm	6,206	2	1	
2004	Acute Metals in water	Not Assessed	Lower Ayish Bayou arm	9,676	2	0	
2004	Acute Metals in water	Fully Supporting	Main pool by the dam	16,372	15	0	
2004	Acute Metals in water	Fully Supporting	Mid-Angelina River arm (SH 147)	20,331	14	0	
2004	Acute Metals in water	Fully Supporting	Upper Angelina River arm	7,967	13	0	
2004	Acute Metals in water	Fully Supporting	Upper Angelina River arm	7,967	14	0	
2004	Acute Metals in water	Fully Supporting	Upper Attoyac Bayou arm	4,261	12	0	
2004	Acute Metals in water	Fully Supporting	Upper Ayish Bayou arm	3,365	11	0	
2004	Acute Metals in water	Not Assessed	Upper mid-Angelina River arm	8,836	2	0	
2004	Acute Metals in water	Not Assessed	Upper mid-Angelina River arm	8,836	2	1	
2004	Chronic Metals in water	Not Assessed	Bear Creek arm	6,106	2		1.58
2004	Chronic Metals in water	Not Assessed	Extreme upper Angelina River arm	3,759	0		
2004	Chronic Metals in water	Not Assessed	Lower Angelina River arm	27,621	1		0.15
2004	Chronic Metals in water	Not Assessed	Lower Attoyac Bayou arm	6,206	1		0.15
2004	Chronic Metals in water	Not Assessed	Lower Ayish Bayou arm	9,676	2		0.58
2004	Chronic Metals in water	Fully Supporting	Main pool by the dam	16,372	15		1.9
2004	Chronic Metals in water	Fully Supporting	Mid-Angelina River arm (SH 147)	20,331	14		1.8
2004	Chronic Metals in water	Fully Supporting	Upper Angelina River arm	7,967	14		2.04
2004	Chronic Metals in water	Fully Supporting	Upper Attoyac Bayou arm	4,261	12		1.95
2004	Chronic Metals in water	Fully Supporting	Upper Ayish Bayou arm	3,365	11		2.06
2004	Chronic Metals in water	Not Assessed	Upper mid-Angelina River arm	8,836	1		0.15
2002	Acute Organics in water	Not Assessed	Main pool by the dam	16,372	1		
2002	Acute Organics in water	Not Assessed	Mid-Angelina River arm (SH 147)	20,331	1		
2002	Chronic Organics in water	Not Assessed	Main pool by the dam	16,372	1		
2002	Chronic Organics in water	Not Assessed	Mid-Angelina River arm (SH 147)	20,331	1		

2004	Overall Aquatic Life Use	Fully Supporting	Bear Creek arm	6,106			
2004	Overall Aquatic Life Use	Fully Supporting	Extreme upper Angelina River arm	3,759			
2004	Overall Aquatic Life Use	Fully Supporting	Lower Angelina River arm	27,621			
2004	Overall Aquatic Life Use	Fully Supporting	Lower Attoyac Bayou arm	6,206			
2004	Overall Aquatic Life Use	Fully Supporting	Lower Ayish Bayou arm	9,676			
2004	Overall Aquatic Life Use	Fully Supporting	Main pool by the dam	16,372			
2004	Overall Aquatic Life Use	Fully Supporting	Mid-Angelina River arm (SH 147)	20,331			
2004	Overall Aquatic Life Use	Fully Supporting	Upper Angelina River arm	7,967			
2004	Overall Aquatic Life Use	Fully Supporting	Upper Attoyac Bayou arm	4,261			
2004	Overall Aquatic Life Use	Fully Supporting	Upper Ayish Bayou arm	3,365			
2004	Overall Aquatic Life Use	Fully Supporting	Upper mid-Angelina River arm	8,836			