

Segment ID: 1254 **Water body name:** Aquilla Reservoir

Reservoir		Brazos River Basin		Total size:	3,943	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	No Concern	Aquilla Creek arm on the west	1,394	13	0	
2002	Dissolved Oxygen grab average	No Concern	Hackberry Creek arm on the east	1,340	15	0	
2002	Dissolved Oxygen grab average	No Concern	South end of reservoir near dam	1,209	14	1	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Aquilla Creek arm on the west	1,394	13	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Hackberry Creek arm on the east	1,340	15	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	South end of reservoir near dam	1,209	14	0	
2002	Dissolved Oxygen 24hr average	Not Assessed	Aquilla Creek arm on the west	1,394	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Hackberry Creek arm on the east	1,340	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	South end of reservoir near dam	1,209	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Aquilla Creek arm on the west	1,394	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Hackberry Creek arm on the east	1,340	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	South end of reservoir near dam	1,209	0		
2002	Acute Metals in water	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	5	0	
2002	Acute Metals in water	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	5	0	
2002	Acute Metals in water	Not Assessed	South end of reservoir near dam	1,209	1	0	
2002	Chronic Metals in water	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	5		
2002	Chronic Metals in water	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	5		
2002	Chronic Metals in water	Not Assessed	South end of reservoir near dam	1,209	1		
2002	Acute Organics in water	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	4	0	

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Reservoir Brazos River Basin Total size: 3,943 Acres

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Aquatic Life Use (continued)

2002	Acute Organics in water	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	4	0	
2002	Acute Organics in water	No Concern-Limited Data	South end of reservoir near dam	1,209	5	0	
2002	Chronic Organics in water	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	4		
2002	Chronic Organics in water	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	4		
2002	Chronic Organics in water	No Concern-Limited Data	South end of reservoir near dam	1,209	5		
2002	Overall Aquatic Life Use	Fully Supporting	Aquilla Creek arm on the west	1,394			
2002	Overall Aquatic Life Use	Fully Supporting	Hackberry Creek arm on the east	1,340			
2002	Overall Aquatic Life Use	Fully Supporting	South end of reservoir near dam	1,209			

Contact Recreation Use

2002	E. coli single sample	Not Assessed	Aquilla Creek arm on the west	1,394	0		
2002	E. coli single sample	Not Assessed	Hackberry Creek arm on the east	1,340	0		
2002	E. coli single sample	Not Assessed	South end of reservoir near dam	1,209	0		
2002	E. coli geometric mean	Not Assessed	Aquilla Creek arm on the west	1,394	0		
2002	E. coli geometric mean	Not Assessed	Hackberry Creek arm on the east	1,340	0		
2002	E. coli geometric mean	Not Assessed	South end of reservoir near dam	1,209	0		
2002	Fecal coliform single sample	Fully Supporting	Aquilla Creek arm on the west	1,394	14	0	
2002	Fecal coliform single sample	Fully Supporting	Hackberry Creek arm on the east	1,340	15	0	
2002	Fecal coliform single sample	Fully Supporting	South end of reservoir near dam	1,209	16	0	
2002	Fecal coliform geometric mean	Fully Supporting	Aquilla Creek arm on the west	1,394	14		3

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Reservoir Brazos River Basin Total size: 3,943 Acres

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Contact Recreation Use (continued)

2002	Fecal coliform geometric mean	Fully Supporting	Hackberry Creek arm on the east	1,340	15		4
2002	Fecal coliform geometric mean	Fully Supporting	South end of reservoir near dam	1,209	16		3
2002	Overall Recreation Use	Fully Supporting	Aquilla Creek arm on the west	1,394			
2002	Overall Recreation Use	Fully Supporting	Hackberry Creek arm on the east	1,340			
2002	Overall Recreation Use	Fully Supporting	South end of reservoir near dam	1,209			

General Use

2002	Water Temperature	Fully Supporting	Aquilla Creek arm on the west	1,394	13	0	
2002	Water Temperature	Fully Supporting	Hackberry Creek arm on the east	1,340	15	0	
2002	Water Temperature	Fully Supporting	South end of reservoir near dam	1,209	14	0	
2002	pH	Fully Supporting	Aquilla Creek arm on the west	1,394	13	0	
2002	pH	Fully Supporting	Hackberry Creek arm on the east	1,340	15	0	
2002	pH	Fully Supporting	South end of reservoir near dam	1,209	14	0	
2002	Chloride	Fully Supporting	Aquilla Creek arm on the west	1,394	41		11.1
2002	Chloride	Fully Supporting	Hackberry Creek arm on the east	1,340	41		11.1
2002	Chloride	Fully Supporting	South end of reservoir near dam	1,209	41		11.1
2002	Sulfate	Fully Supporting	Aquilla Creek arm on the west	1,394	38		49.9
2002	Sulfate	Fully Supporting	Hackberry Creek arm on the east	1,340	38		49.9
2002	Sulfate	Fully Supporting	South end of reservoir near dam	1,209	38		49.9
2002	Total Dissolved Solids	Fully Supporting	Aquilla Creek arm on the west	1,394	47		216.8
2002	Total Dissolved Solids	Fully Supporting	Hackberry Creek arm on the east	1,340	47		216.8
2002	Total Dissolved Solids	Fully Supporting	South end of reservoir near dam	1,209	47		216.8
2002	Overall General Use	Fully Supporting	Aquilla Creek arm on the west	1,394			

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Reservoir Brazos River Basin Total size: 3,943 Acres

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General Use (continued)

2002	Overall General Use	Fully Supporting	Hackberry Creek arm on the east	1,340			
2002	Overall General Use	Fully Supporting	South end of reservoir near dam	1,209			

Fish Consumption Use

2002	Human Health Criteria Atrazine	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	7		1.29
2002	Human Health Criteria Metals	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	5		
2002	Human Health Criteria Metals	Fully Supporting	Hackberry Creek arm on the east	1,340	10		
2002	Human Health Criteria Metals	Not Assessed	South end of reservoir near dam	1,209	1		
2002	Human Health Criteria Organics	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	6		
2002	Human Health Criteria Organics	Fully Supporting	Hackberry Creek arm on the east	1,340	10		
2002	Human Health Criteria Organics	No Concern-Limited Data	South end of reservoir near dam	1,209	5		
2002	Overall Fish Consumption Use	Not Assessed	Aquilla Creek arm on the west	1,394			
2002	Overall Fish Consumption Use	Fully Supporting	Hackberry Creek arm on the east	1,340			
2002	Overall Fish Consumption Use	Not Assessed	South end of reservoir near dam	1,209			

Public Water Supply Use

2002	Finished Water: Running Avg	Fully Supporting	Aquilla Creek arm on the west	1,394			
2002	Finished Water: Running Avg	Fully Supporting	Hackberry Creek arm on the east	1,340			
2002	Finished Water: Running Avg	Fully Supporting	South end of reservoir near dam	1,209			
2002	Finished Water: MCLs Threatened Alachlor	Threatened	Aquilla Creek arm on the west	1,394	23	4	
2002	Finished Water: MCLs Threatened Alachlor	Threatened	Hackberry Creek arm on the east	1,340	23	4	

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Reservoir Brazos River Basin Total size: 3,943 Acres

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Public Water Supply Use (continued)

2002	Finished Water: MCLs Threatened Alachlor	Threatened	South end of reservoir near dam	1,209	23	4	
2002	Finished Water: MCLs Threatened Atrazine	Threatened	Aquilla Creek arm on the west	1,394	23	3	
2002	Finished Water: MCLs Threatened Atrazine	Threatened	Hackberry Creek arm on the east	1,340	23	3	
2002	Finished Water: MCLs Threatened Atrazine	Threatened	South end of reservoir near dam	1,209	23	3	
2002	Surface Water: Long-term average Atrazine	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	7		3.6
2002	Surface Water: Long-term average Metals	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	5		
2002	Surface Water: Long-term average Metals	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	5		
2002	Surface Water: Long-term average Metals	Not Assessed	South end of reservoir near dam	1,209	1		
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Aquilla Creek arm on the west	1,394	13		0.57
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Hackberry Creek arm on the east	1,340	15		0.62
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	South end of reservoir near dam	1,209	16		0.54
2002	Surface Water: Long-term average Organics	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	6		
2002	Surface Water: Long-term average Organics	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	7		
2002	Surface Water: Long-term average Organics	No Concern-Limited Data	South end of reservoir near dam	1,209	5		
2002	Surface Water: Running average Atrazine	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	7	1	

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Reservoir	Brazos River Basin	Total size:	3,943	Acres
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Public Water Supply Use (continued)

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	Surface Water: Running average Metals	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	5	0	
2002	Surface Water: Running average Metals	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	5	0	
2002	Surface Water: Running average Metals	Not Assessed	South end of reservoir near dam	1,209	1	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Aquilla Creek arm on the west	1,394	13	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Hackberry Creek arm on the east	1,340	15	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	South end of reservoir near dam	1,209	16	0	
2002	Surface Water: Running average Organics	No Concern-Limited Data	Aquilla Creek arm on the west	1,394	6	0	
2002	Surface Water: Running average Organics	No Concern-Limited Data	Hackberry Creek arm on the east	1,340	7	0	
2002	Surface Water: Running average Organics	No Concern-Limited Data	South end of reservoir near dam	1,209	5	0	
2002	Overall Public Water Supply Use	Fully Supporting	Aquilla Creek arm on the west	1,394			
2002	Overall Public Water Supply Use	Fully Supporting	Hackberry Creek arm on the east	1,340			
2002	Overall Public Water Supply Use	Fully Supporting	South end of reservoir near dam	1,209			

Overall Use Support

2002		Fully Supporting	Aquilla Creek arm on the west	1,394			
2002		Fully Supporting	Hackberry Creek arm on the east	1,340			
2002		Fully Supporting	South end of reservoir near dam	1,209			

Nutrient Enrichment Concern

2002	Ammonia Nitrogen	Not Assessed	Aquilla Creek arm on the west	1,394	9	0	
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Reservoir	Brazos River Basin			Total size:	3,943	Acres	
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Nutrient Enrichment Concern (continued)

2002	Ammonia Nitrogen	No Concern	Hackberry Creek arm on the east	1,340	10	0	
2002	Ammonia Nitrogen	No Concern	South end of reservoir near dam	1,209	11	0	
2002	Nitrite + Nitrate Nitrogen	Concern	Aquilla Creek arm on the west	1,394	13	6	
2002	Nitrite + Nitrate Nitrogen	Concern	Hackberry Creek arm on the east	1,340	15	9	
2002	Nitrite + Nitrate Nitrogen	Concern	South end of reservoir near dam	1,209	16	8	
2002	Orthophosphorus	No Concern	Aquilla Creek arm on the west	1,394	13	0	
2002	Orthophosphorus	No Concern	Hackberry Creek arm on the east	1,340	15	0	
2002	Orthophosphorus	No Concern	South end of reservoir near dam	1,209	16	0	
2002	Total Phosphorus	Not Assessed	Aquilla Creek arm on the west	1,394	9	0	
2002	Total Phosphorus	No Concern	Hackberry Creek arm on the east	1,340	10	0	
2002	Total Phosphorus	No Concern	South end of reservoir near dam	1,209	11	0	
2002	Overall Nutrient Enrichment Concerns	Concern	Aquilla Creek arm on the west	1,394			
2002	Overall Nutrient Enrichment Concerns	Concern	Hackberry Creek arm on the east	1,340			
2002	Overall Nutrient Enrichment Concerns	Concern	South end of reservoir near dam	1,209			

Algal Growth Concern

2002	Chlorophyll a	Not Assessed	Aquilla Creek arm on the west	1,394	9	0	
2002	Chlorophyll a	No Concern	Hackberry Creek arm on the east	1,340	10	0	
2002	Chlorophyll a	No Concern	South end of reservoir near dam	1,209	11	0	

Sediment Contaminants Concern

2002	PEL Metals in sediment Arsenic	Not Assessed	Aquilla Creek arm on the west	1,394	2	1	
2002	PEL Metals in sediment Arsenic	Not Assessed	Hackberry Creek arm on the east	1,340	4	4	

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Reservoir	Brazos River Basin	Total size:	3,943	Acres
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Sediment Contaminants Concern (continued)

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	PEL Metals in sediment Nickel	Not Assessed	Aquilla Creek arm on the west	1,394	2	1	
2002	PEL Metals in sediment Nickel	Not Assessed	Hackberry Creek arm on the east	1,340	4	4	
2002	85% Metals in sediment Arsenic	Not Assessed	Hackberry Creek arm on the east	1,340	4	4	
2002	85% Metals in sediment Cadmium	Not Assessed	Hackberry Creek arm on the east	1,340	3	3	
2002	85% Metals in sediment Chromium	Not Assessed	Aquilla Creek arm on the west	1,394	2	1	
2002	85% Metals in sediment Chromium	Not Assessed	Hackberry Creek arm on the east	1,340	4	4	
2002	85% Metals in sediment Copper	Not Assessed	Hackberry Creek arm on the east	1,340	4	3	
2002	85% Metals in sediment Nickel	Not Assessed	Aquilla Creek arm on the west	1,394	2	1	
2002	85% Metals in sediment Nickel	Not Assessed	Hackberry Creek arm on the east	1,340	4	4	
2002	Organics in sediment	Not Assessed	Aquilla Creek arm on the west	1,394	2	0	
2002	Organics in sediment	Not Assessed	Hackberry Creek arm on the east	1,340	2	0	
2002	Overall Sediment Contaminant Concerns	Not Assessed	Aquilla Creek arm on the west	1,394			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Hackberry Creek arm on the east	1,340			
2002	Overall Sediment Contaminant Concerns	Not Assessed	South end of reservoir near dam	1,209			

Fish Tissue Contaminants Concern

2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Aquilla Creek arm on the west	1,394			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Hackberry Creek arm on the east	1,340			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	South end of reservoir near dam	1,209			

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Reservoir		Brazos River Basin		Total size:	3,943	Acres	
Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Public Water Supply Concern							
2002	Finished Water: Chloride	No Concern	Aquilla Creek arm on the west	1,394			
2002	Finished Water: Chloride	No Concern	Hackberry Creek arm on the east	1,340			
2002	Finished Water: Chloride	No Concern	South end of reservoir near dam	1,209			
2002	Finished Water: Sulfate	No Concern	Aquilla Creek arm on the west	1,394			
2002	Finished Water: Sulfate	No Concern	Hackberry Creek arm on the east	1,340			
2002	Finished Water: Sulfate	No Concern	South end of reservoir near dam	1,209			
2002	Finished Water: Total Dissolved Solids	No Concern	Aquilla Creek arm on the west	1,394			
2002	Finished Water: Total Dissolved Solids	No Concern	Hackberry Creek arm on the east	1,340			
2002	Finished Water: Total Dissolved Solids	No Concern	South end of reservoir near dam	1,209			
2002	Finished Water: MTBE	No Concern	Aquilla Creek arm on the west	1,394			
2002	Finished Water: MTBE	No Concern	Hackberry Creek arm on the east	1,340			
2002	Finished Water: MTBE	No Concern	South end of reservoir near dam	1,209			
2002	Finished Water: Perchlorate	Not Assessed	Aquilla Creek arm on the west	1,394			
2002	Finished Water: Perchlorate	Not Assessed	Hackberry Creek arm on the east	1,340			
2002	Finished Water: Perchlorate	Not Assessed	South end of reservoir near dam	1,209			
2002	Finished Water: Overall	No Concern	Aquilla Creek arm on the west	1,394			
2002	Finished Water: Overall	No Concern	Hackberry Creek arm on the east	1,340			
2002	Finished Water: Overall	No Concern	South end of reservoir near dam	1,209			
2002	Surface Water: Chloride	No Concern	Aquilla Creek arm on the west	1,394	41		11.1
2002	Surface Water: Chloride	No Concern	Hackberry Creek arm on the east	1,340	41		11.1
2002	Surface Water: Chloride	No Concern	South end of reservoir near dam	1,209	41		11.1

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Reservoir Brazos River Basin Total size: 3,943 Acres

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Public Water Supply Concern (continued)

2002	Surface Water: Sulfate	No Concern	Aquilla Creek arm on the west	1,394	38		49.9
2002	Surface Water: Sulfate	No Concern	Hackberry Creek arm on the east	1,340	38		49.9
2002	Surface Water: Sulfate	No Concern	South end of reservoir near dam	1,209	38		49.9
2002	Surface Water: Total Dissolved Solids	No Concern	Aquilla Creek arm on the west	1,394	47		216.8
2002	Surface Water: Total Dissolved Solids	No Concern	Hackberry Creek arm on the east	1,340	47		216.8
2002	Surface Water: Total Dissolved Solids	No Concern	South end of reservoir near dam	1,209	47		216.8
2002	Surface Water: Overall	No Concern	Aquilla Creek arm on the west	1,394			
2002	Surface Water: Overall	No Concern	Hackberry Creek arm on the east	1,340			
2002	Surface Water: Overall	No Concern	South end of reservoir near dam	1,209			
2002	Overall Public Water Supply Concerns	No Concern	Aquilla Creek arm on the west	1,394			
2002	Overall Public Water Supply Concerns	No Concern	Hackberry Creek arm on the east	1,340			
2002	Overall Public Water Supply Concerns	No Concern	South end of reservoir near dam	1,209			

Narrative Criteria Concern

2002	Overall Narrative Criteria Concerns	No Concern	Aquilla Creek arm on the west	1,394			
2002	Overall Narrative Criteria Concerns	No Concern	Hackberry Creek arm on the east	1,340			
2002	Overall Narrative Criteria Concerns	No Concern	South end of reservoir near dam	1,209			

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Overall Secondary Concern

2002		Concern	Aquilla Creek arm on the west	1,394			
2002		Concern	Hackberry Creek arm on the east	1,340			
2002		Concern	South end of reservoir near dam	1,209			