Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

Aquatic Life Use

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	Dissolved Oxygen grab average	No Concern	Eastern end of reservoir near dam	4,123	30	1	
2002	Dissolved Oxygen grab average	No Concern	Middle of reservoir near Birch Creek State Park	4,483	10	0	
2002	Dissolved Oxygen grab average	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	9	1	
2002	Dissolved Oxygen grab average	No Concern	Western end of reservoir near upper segment boundary	2,770	30	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Eastern end of reservoir near dam	4,123	30	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
2002	Dissolved Oxygen grab minimum	No Concern-Limited Data	Northern arm of reservoir near town of Somerville	1,184	9	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	30	0	
2002	Dissolved Oxygen 24hr average	Not Assessed	Eastern end of reservoir near dam	4,123	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Western end of reservoir near upper segment boundary	2,770	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Eastern end of reservoir near dam	4,123	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Western end of reservoir near upper segment boundary	2,770	0		
2002	Acute Metals in water	Not Assessed	Eastern end of reservoir near dam	4,123	1		
2002	Chronic Metals in water	Not Assessed	Eastern end of reservoir near dam	4,123	1		
2002	Acute Organics in water	Not Assessed	Eastern end of reservoir near dam	4,123	2		

Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

Aquatic Life Use (continued)

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	Chronic Organics in water	Not Assessed	Eastern end of reservoir near dam	4,123	2		
2002	Overall Aquatic Life Use	Fully Supporting	Eastern end of reservoir near dam	4,123			
2002	Overall Aquatic Life Use	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
2002	Overall Aquatic Life Use	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall Aquatic Life Use	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			

Contact Recreation Use

2002	E. coli single sample	Not Assessed	Eastern end of reservoir near dam	4,123	0		
2002	E. coli single sample	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
2002	E. coli single sample	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
2002	E. coli single sample	Not Assessed	Western end of reservoir near upper segment boundary	2,770	0		
2002	E. coli geometric mean	Not Assessed	Eastern end of reservoir near dam	4,123	0		
2002	E. coli geometric mean	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
2002	E. coli geometric mean	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
2002	E. coli geometric mean	Not Assessed	Western end of reservoir near upper segment boundary	2,770	0		
2002	Fecal coliform single sample	Fully Supporting	Eastern end of reservoir near dam	4,123	27	0	
2002	Fecal coliform single sample	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
2002	Fecal coliform single sample	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	10	0	
2002	Fecal coliform single sample	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	29	0	
2002	Fecal coliform geometric mean	Fully Supporting	Eastern end of reservoir near dam	4,123	27		2.9
2002	Fecal coliform geometric mean	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10		4.3

Segment ID: 1212 Water body name: Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

Contact Recreation Use (continued)

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	Fecal coliform geometric mean	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	10		4
2002	Fecal coliform geometric mean	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	29		6.7
2002	Overall Recreation Use	Fully Supporting	Eastern end of reservoir near dam	4,123			
2002	Overall Recreation Use	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
2002	Overall Recreation Use	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall Recreation Use	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			

General Use

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	Water Temperature	Fully Supporting	Eastern end of reservoir near dam	4,123	26	0	
2002	Water Temperature	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
2002	Water Temperature	No Concern-Limited Data	Northern arm of reservoir near town of Somerville	1,184	9		
2002	Water Temperature	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	31	0	
2002	pH	Partially Supporting	Eastern end of reservoir near dam	4,123	26	5	
2002	pH	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
2002	pH	No Concern-Limited Data	Northern arm of reservoir near town of Somerville	1,184	9		
2002	pH	Use Concern	Western end of reservoir near upper segment boundary	2,770	31	4	
2002	Chloride	Fully Supporting	Eastern end of reservoir near dam	4,123	81		48.1
2002	Chloride	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	81		48.1
2002	Chloride	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	81		48.1
2002	Chloride	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	81		48.1

Segment ID: 1212 Water body name: Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

General Use (continued)

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	Sulfate	Fully Supporting	Eastern end of reservoir near dam	4,123	79		58.2
2002	Sulfate	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	79		58.2
2002	Sulfate	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	79		58.2
2002	Sulfate	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	79		58.2
2002	Total Dissolved Solids	Fully Supporting	Eastern end of reservoir near dam	4,123	82		263.1
2002	Total Dissolved Solids	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	82		263.1
2002	Total Dissolved Solids	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	82		263.1
2002	Total Dissolved Solids	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	82		263.1
2002	Overall General Use	Partially Supporting	Eastern end of reservoir near dam	4,123			
2002	Overall General Use	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
2002	Overall General Use	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall General Use	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			

Fish Consumption Use

2002	Human Health Criteria Metals	Not Assessed	Eastern end of reservoir near dam	4,123	1		
2002	Human Health Criteria Organics	Not Assessed	Eastern end of reservoir near dam	4,123	2		
2002	Overall Fish Consumption Use	Not Assessed	Eastern end of reservoir near dam	4,123			
2002	Overall Fish Consumption Use	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483			
2002	Overall Fish Consumption Use	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall Fish Consumption Use	Not Assessed	Western end of reservoir near upper segment boundary	2,770			

Segment ID: 1212 Water body name: Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

Public Water Supply Use

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	Finished Water: Running Avg	Fully Supporting	Eastern end of reservoir near dam	4,123			
2002	Finished Water: Running Avg	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
2002	Finished Water: Running Avg	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			
2002	Finished Water: Running Avg	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			
2002	Surface Water: Long-term average Metals	Not Assessed	Eastern end of reservoir near dam	4,123	1		
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Eastern end of reservoir near dam	4,123	28		0.07
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10		0.1
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	10		0.05
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	29		0.12
2002	Surface Water: Long-term average Organics	Not Assessed	Eastern end of reservoir near dam	4,123	2		
2002	Surface Water: Running average Metals	Not Assessed	Eastern end of reservoir near dam	4,123	1	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Eastern end of reservoir near dam	4,123	28	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	10	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	29	0	
2002	Surface Water: Running average Organics	Not Assessed	Eastern end of reservoir near dam	4,123	2	0	

Segment ID: 1212 Water body name: Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Public Water Supply Use (continued)							
2002	Overall Public Water Supply Use	Fully Supporting	Eastern end of reservoir near dam	4,123			
2002	Overall Public Water Supply Use	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
2002	Overall Public Water Supply Use	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall Public Water Supply Use	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			
Overall Use Support							
2002		Partially Supporting	Eastern end of reservoir near dam	4,123			
2002		Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
2002		Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			
2002		Fully Supporting	Western end of reservoir near upper segment boundary	2,770			
Nutrient Enrichment Concern							
2002	Ammonia Nitrogen	Not Assessed	Eastern end of reservoir near dam	4,123	3	0	
2002	Ammonia Nitrogen	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
2002	Ammonia Nitrogen	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
2002	Ammonia Nitrogen	Not Assessed	Western end of reservoir near upper segment boundary	2,770	1	0	
2002	Nitrite + Nitrate Nitrogen	No Concern	Eastern end of reservoir near dam	4,123	28	2	
2002	Nitrite + Nitrate Nitrogen	No Concern	Middle of reservoir near Birch Creek State Park	4,483	10	0	
2002	Nitrite + Nitrate Nitrogen	No Concern	Northern arm of reservoir near town of Somerville	1,184	10	0	
2002	Nitrite + Nitrate Nitrogen	No Concern	Western end of reservoir near upper segment boundary	2,770	29	3	
2002	Orthophosphorus	No Concern	Eastern end of reservoir near dam	4,123	28	2	
2002	Orthophosphorus	No Concern	Middle of reservoir near Birch Creek State Park	4,483	10	0	
2002	Orthophosphorus	No Concern	Northern arm of reservoir near town of Somerville	1,184	10	0	

Segment ID: 1212 Water body name: Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Nutrient Enrichment Concern (continued)							
2002	Orthophosphorus	No Concern	Western end of reservoir near upper segment boundary	2,770	28	3	
2002	Total Phosphorus	Not Assessed	Eastern end of reservoir near dam	4,123	3	0	
2002	Total Phosphorus	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
2002	Total Phosphorus	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
2002	Total Phosphorus	Not Assessed	Western end of reservoir near upper segment boundary	2,770	1	0	
2002	Overall Nutrient Enrichment Concerns	No Concern	Eastern end of reservoir near dam	4,123			
2002	Overall Nutrient Enrichment Concerns	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002	Overall Nutrient Enrichment Concerns	No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall Nutrient Enrichment Concerns	No Concern	Western end of reservoir near upper segment boundary	2,770			
Algal Growth Concern							
2002	Chlorophyll a	Not Assessed	Eastern end of reservoir near dam	4,123	3	2	
2002	Chlorophyll a	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
2002	Chlorophyll a	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
2002	Chlorophyll a	Not Assessed	Western end of reservoir near upper segment boundary	2,770	1	1	
Sediment Contaminants Concern							
2002	Overall Sediment Contaminant Concerns	Not Assessed	Eastern end of reservoir near dam	4,123			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483			

Segment ID: 1212 Water body name: Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

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

Sediment Contaminants Concern (continued)

2002	Overall Sediment Contaminant Concerns	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Western end of reservoir near upper segment boundary	2,770			

Fish Tissue Contaminants Concern

2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Eastern end of reservoir near dam	4,123			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Western end of reservoir near upper segment boundary	2,770			

Public Water Supply Concern

2002	Finished Water: Chloride	No Concern	Eastern end of reservoir near dam	4,123			
2002	Finished Water: Chloride	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002	Finished Water: Chloride	No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002	Finished Water: Chloride	No Concern	Western end of reservoir near upper segment boundary	2,770			
2002	Finished Water: Sulfate	No Concern	Eastern end of reservoir near dam	4,123			
2002	Finished Water: Sulfate	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002	Finished Water: Sulfate	No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002	Finished Water: Sulfate	No Concern	Western end of reservoir near upper segment boundary	2,770			
2002	Finished Water: Total Dissolved Solids	No Concern	Eastern end of reservoir near dam	4,123			

Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

Public Water Supply Concern (continued)

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	Finished Water: Total Dissolved Solids	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002	Finished Water: Total Dissolved Solids	No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002	Finished Water: Total Dissolved Solids	No Concern	Western end of reservoir near upper segment boundary	2,770			
2002	Finished Water: MTBE	No Concern	Eastern end of reservoir near dam	4,123			
2002	Finished Water: MTBE	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002	Finished Water: MTBE	No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002	Finished Water: MTBE	No Concern	Western end of reservoir near upper segment boundary	2,770			
2002	Finished Water: Perchlorate	Not Assessed	Eastern end of reservoir near dam	4,123			
2002	Finished Water: Perchlorate	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483			
2002	Finished Water: Perchlorate	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
2002	Finished Water: Perchlorate	Not Assessed	Western end of reservoir near upper segment boundary	2,770			
2002	Finished Water: Overall	No Concern	Eastern end of reservoir near dam	4,123			
2002	Finished Water: Overall	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002	Finished Water: Overall	No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002	Finished Water: Overall	No Concern	Western end of reservoir near upper segment boundary	2,770			
2002	Surface Water: Chloride	No Concern	Eastern end of reservoir near dam	4,123	81		48.1
2002	Surface Water: Chloride	No Concern	Middle of reservoir near Birch Creek State Park	4,483	81		48.1
2002	Surface Water: Chloride	No Concern	Northern arm of reservoir near town of Somerville	1,184	81		48.1
2002	Surface Water: Chloride	No Concern	Western end of reservoir near upper segment boundary	2,770	81		48.1

Segment ID: 1212 Water body name: Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

Public Water Supply Concern (continued)

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
2002	Surface Water: Sulfate	No Concern	Eastern end of reservoir near dam	4,123	79		58.2
2002	Surface Water: Sulfate	No Concern	Middle of reservoir near Birch Creek State Park	4,483	79		58.2
2002	Surface Water: Sulfate	No Concern	Northern arm of reservoir near town of Somerville	1,184	79		58.2
2002	Surface Water: Sulfate	No Concern	Western end of reservoir near upper segment boundary	2,770	79		58.2
2002	Surface Water: Total Dissolved Solids	No Concern	Eastern end of reservoir near dam	4,123	82		263.1
2002	Surface Water: Total Dissolved Solids	No Concern	Middle of reservoir near Birch Creek State Park	4,483	82		263.1
2002	Surface Water: Total Dissolved Solids	No Concern	Northern arm of reservoir near town of Somerville	1,184	82		263.1
2002	Surface Water: Total Dissolved Solids	No Concern	Western end of reservoir near upper segment boundary	2,770	82		263.1
2002	Surface Water: Overall	No Concern	Eastern end of reservoir near dam	4,123			
2002	Surface Water: Overall	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002	Surface Water: Overall	No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002	Surface Water: Overall	No Concern	Western end of reservoir near upper segment boundary	2,770			
2002	Overall Public Water Supply Concerns	No Concern	Eastern end of reservoir near dam	4,123			
2002	Overall Public Water Supply Concerns	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002	Overall Public Water Supply Concerns	No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall Public Water Supply Concerns	No Concern	Western end of reservoir near upper segment boundary	2,770			

Segment ID: 1212 Water body name: Somerville Lake

Reservoir Brazos River Basin Total size: 12,560 Acres

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Narrative Criteria Concern							
2002	Overall Narrative Criteria Concerns	No Concern	Eastern end of reservoir near dam	4,123			
2002	Overall Narrative Criteria Concerns	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002	Overall Narrative Criteria Concerns	No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002	Overall Narrative Criteria Concerns	No Concern	Western end of reservoir near upper segment boundary	2,770			
Overall Secondary Concern							
2002		No Concern	Eastern end of reservoir near dam	4,123			
2002		No Concern	Middle of reservoir near Birch Creek State Park	4,483			
2002		No Concern	Northern arm of reservoir near town of Somerville	1,184			
2002		No Concern	Western end of reservoir near upper segment boundary	2,770			