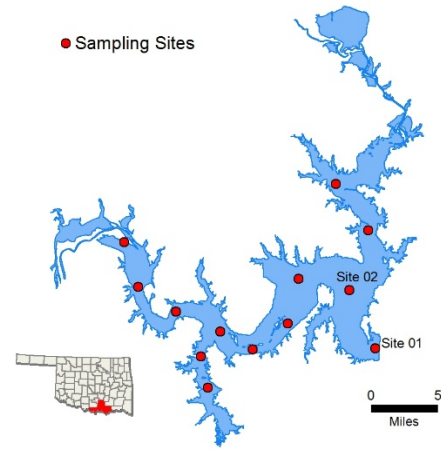


Texoma (1-2)

Sample Period	Times Visited	Sampling Sites
October 2017 – July 2018	4	2

General	Location	Bryan County
	Impoundment	1944
	Area	88,000 acres
	Capacity	2,643,000 acre-feet
	Purposes	Flood Control, Waters Supply, Hydropower, Low-flow Regulation, and Recreation



Parameters	In-Situ	Parameter (Descriptions)	Result	Notes/Comments
		Average Turbidity	5 NTU	100% of values < OWQS of 25 NTU
		Average Secchi Disk Depth	126 cm	
		Water Clarity Rating	Excellent	
		Chlorophyll-a	16.11mg/m ³	
		Trophic State Index	58	Previous value = 49
	Trophic Class	Eutrophic		
	Profile	Salinity	0.83 – 1.07 ppt	
		Specific Conductivity	1650.1 – 2092.0 μS/cm	
		pH	7.20 – 8.36 pH units	
		Oxidation-Reduction Potential	85.0 to 481.4 mV	
		Dissolved Oxygen	Up to 49% of water column < 2.0 mg/L in July	
	Nutrients	Surface Total Nitrogen	0.56 mg/L to 0.83 mg/L	
		Surface Total Phosphorus	0.021 mg/L to 0.040 mg/L	
		Nitrogen to Phosphorus Ratio	21:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	NEI	NEI							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										NEI	
	Public & Private Water Supply					NEI						

S = Fully Supporting
 NS = Not Supporting
 NEI = Not Enough Information

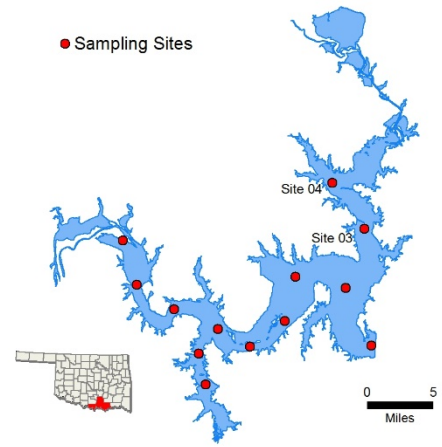
Notes *Standards revision, true color is for permitting purposes only

NTU = nephelometric turbidity units OWQS = Oklahoma Water Quality Standards mg/L = milligrams per liter ppt = parts per thousand
 μS/cm = microsiemens per centimeter mV = millivolts μS/cm = microsiemens/cm En = Enterococci
 E. coli = Escherichia coli Chlor-a = Chlorophyll-a

Texoma Lower Washita River Arm (3-4)

Sample Period	Times Visited	Sampling Sites
October 2017 – July 2018	4	2

General	Location	Bryan County
	Impoundment	1944
	Area	88,000 acres
	Capacity	2,643,000 acre-feet
	Purposes	Flood Control, Waters Supply, Hydropower, Low-flow Regulation, and Recreation



Parameters	In-Situ	Parameter (Descriptions)	Result	Notes/Comments
		Average Turbidity	9 NTU	87% of values < OWQS of 25 NTU
		Average Secchi Disk Depth	97 cm	Did not collect for true color
		Water Clarity Rating	Good	
		Chlorophyll-a	15.39 mg/m ³	
		Trophic State Index	57	Previous value = 56
	Trophic Class	Eutrophic		
	Profile	Salinity	0.56 – 0.90 ppt	
		Specific Conductivity	1118.0 – 1774.5 μS/cm	
		pH	7.21 – 8.35 pH units	
		Oxidation-Reduction Potential	204.5 – 486.6 mV	
		Dissolved Oxygen	Up to 41% of water column < 2.0 mg/L in summer	
	Nutrients	Surface Total Nitrogen	0.56 mg/L to 0.83 mg/L	
		Surface Total Phosphorus	0.025 mg/L to 0.067 mg/L	
		Nitrogen to Phosphorus Ratio	18:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	NS	NEI							
	Aesthetics					S	*					
	Agriculture							NS	S	S		
	Primary Body Contact Recreation										NEI	
	Public & Private Water Supply					NEI						

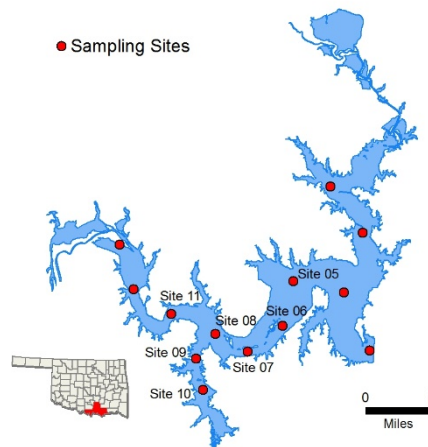
Notes	<p>S = Fully Supporting NS = Not Supporting NEI = Not Enough Information</p> <p>*Standards revision, true color is for permitting purposes only</p>
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 E. coli = Escherichia coli Chlor-a = Chlorophyll-a

Texoma Lower Red River Arm (5-11)

Sample Period	Times Visited	Sampling Sites
October 2017 – July 2018	4	7

General	Location	Bryan County
	Impoundment	1944
	Area	88,000 acres
	Capacity	2,643,000 acre-feet
	Purposes	Flood Control, Waters Supply, Hydropower, Low-flow Regulation, and Recreation



Parameters	In-Situ	Parameter (Descriptions)	Result	Notes/Comments
		Average Turbidity	10 NTU	100% of Values < OWQS of 25 NTU
		Average Secchi Disk Depth	85 cm	
		Water Clarity Rating	Good	
		Chlorophyll-a	26.59 mg/m ³	
		Trophic State Index	63	Previous value = 54
	Trophic Class	Hypereutrophic		
	Profile	Salinity	0.88 – 1.53 ppt	
		Specific Conductivity	1694.0 – 3610.0 μS/cm	
		pH	7.18 – 8.61 pH units	
		Oxidation-Reduction Potential	45.7 – 528.5 mV	
		Dissolved Oxygen	Up to 40% of water column < 2.0 mg/L in July	
	Nutrients	Surface Total Nitrogen	0.605 mg/L to 1.065 mg/L	
		Surface Total Phosphorus	0.023 mg/L to 0.093 mg/L	
		Nitrogen to Phosphorus Ratio	15:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	S	S	NEI	NEI							
	Aesthetics					S	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										NEI	
	Public & Private Water Supply					NEI						

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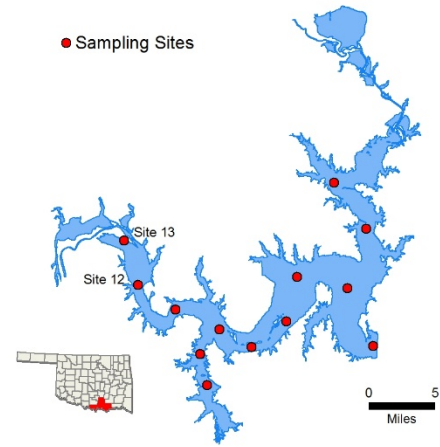
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 E. coli = Escherichia coli Chlor-a = Chlorophyll-a

Texoma Upper Red River Arm (12-13)

Sample Period	Times Visited	Sampling Sites
October 2017 – July 2018	4	2

General	Location	Bryan County
	Impoundment	1944
	Area	88,000 acres
	Capacity	2,643,000 acre-feet
	Purposes	Flood Control, Waters Supply, Hydropower, Low-flow Regulation, and Recreation



Parameters	In-Situ	Parameter (Descriptions)	Result	Notes/Comments
		Average Turbidity	68 NTU	50% of values > OWQS of 25 NTU
		Average Secchi Disk Depth	30 cm	
		Water Clarity Rating	Fair to Poor	
		Chlorophyll-a	50.05 mg/m ³	
		Trophic State Index	69	Previous value = 56
	Trophic Class	Hypereutrophic		
	Profile	Salinity	1.28 – 2.17 ppt	
		Specific Conductivity	1143.0 – 4133.6 μS/cm	
		pH	7.67 – 8.58 pH units	
		Oxidation-Reduction Potential	328.5 – 444.6 mV	
		Dissolved Oxygen		All values above screening level of 2 mg/L
	Nutrients	Surface Total Nitrogen	0.78 mg/L to 2.05 mg/L	
		Surface Total Phosphorus	0.051 mg/L to 0.297 mg/L	
		Nitrogen to Phosphorus Ratio	9:1	Phosphorus limited

Beneficial Uses	Click to learn more about Beneficial Uses	Turbidity	pH	Dissolved Oxygen	Metals	TSI	True Color	Sulfates	Chlorides	Total Dissolved Solids	En & E. coli	Chlor-a
	Fish & Wildlife Propagation	NS	S	S	NEI							
	Aesthetics					S*	*					
	Agriculture							S	S	S		
	Primary Body Contact Recreation										NEI	
	Public & Private Water Supply				NEI							

Notes	<p>S = Fully Supporting NS = Not Supporting NEI = Not Enough Information</p> <p>*Standards revision, true color is for permitting purposes only</p>
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 μS/cm = microsiemens per centimeter mV = millivolts μS/cm = microsiemens/cm En = Enterococci
 E. coli = Escherichia coli Chlor-a = Chlorophyll-a