

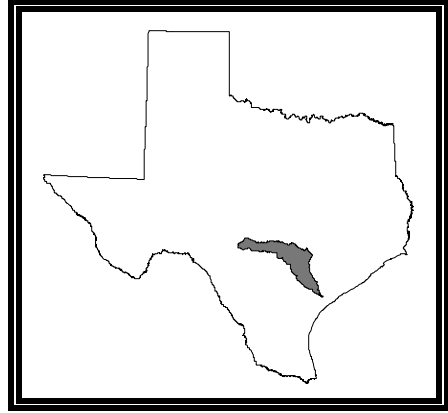
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Basin 18

Guadalupe River



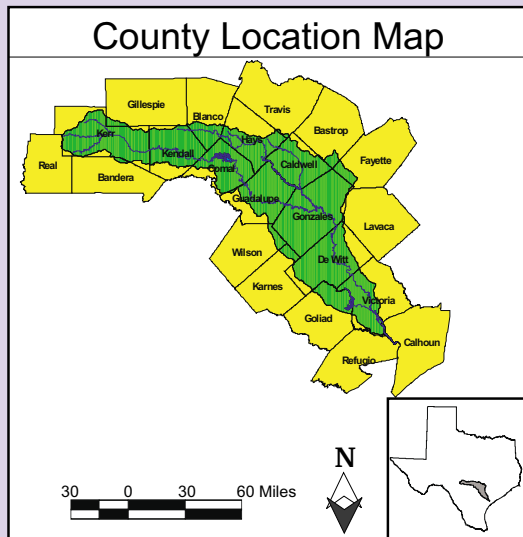
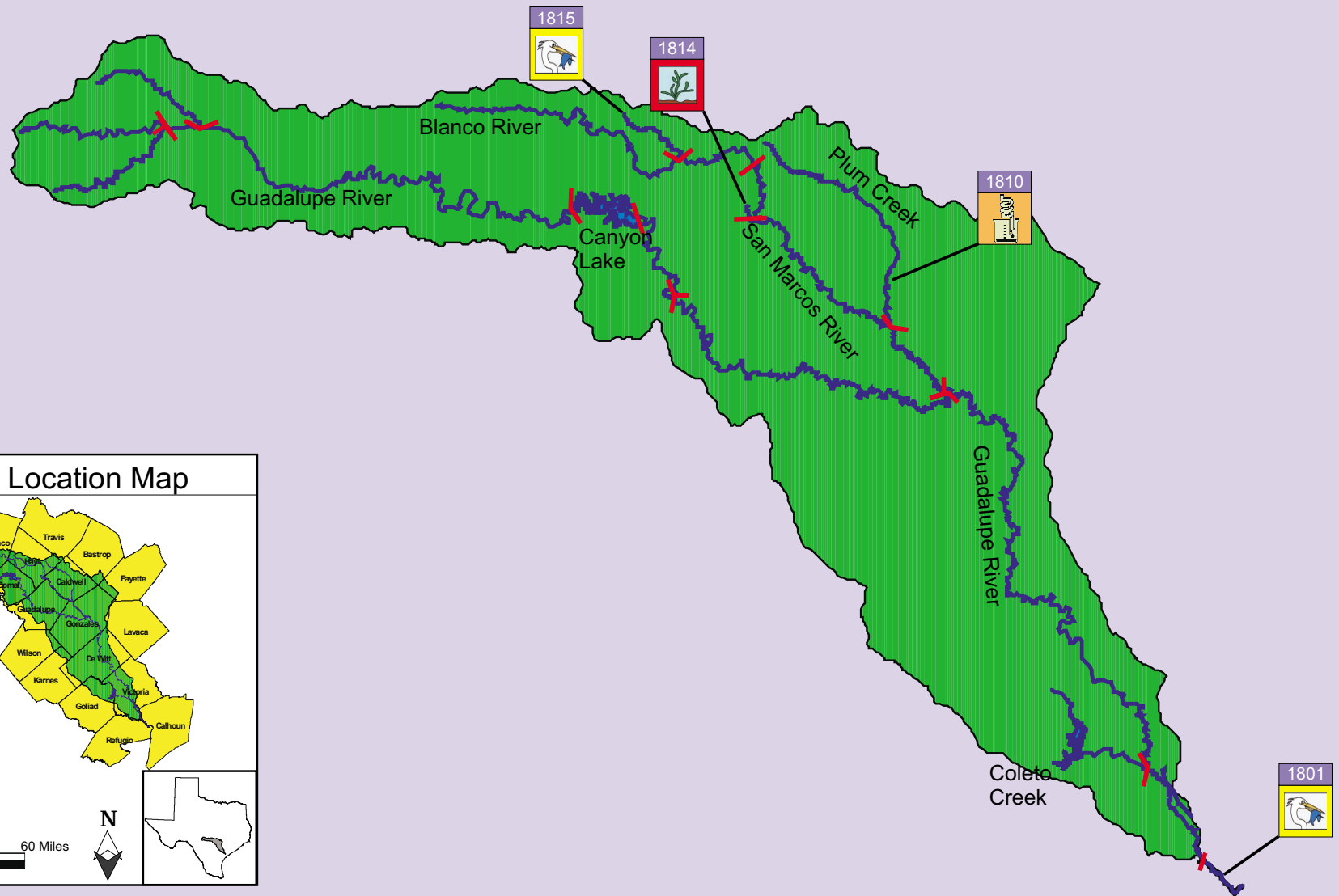
Guadalupe River Basin Narrative Summary

The headwaters of the Guadalupe River form in southwestern Kerr County. The river flows southeasterly to Guadalupe Bay, part of the San Antonio Bay System. The Blanco and San Marcos Rivers are major tributaries to the Guadalupe. The total basin drainage area is 6,070 square miles. The Guadalupe River Basin has been divided into 17 segments for monitoring purposes. The most recent proposed standards revision provides for the creation of segment 1802, Guadalupe River Below San Antonio River from existing segment 1803, Guadalupe River Below San Marcos River to account for different hydrological conditions and dissolved minerals (total dissolved solids, chloride, and sulfate) gradients and different ambient concentrations. One reservoir (Canyon Lake) covering 8,230 surface acres and 749 stream miles are routinely monitored.

The Guadalupe River Basin is characterized by generally high quality throughout. In the most recent assessment, low dissolved oxygen concentrations were found to be generally restricted to the tidal segment and to smaller tributaries. The contact recreation use is not supported in three of the tributary streams due to elevated fecal coliform densities. Elevated nutrient concentrations occur in Plum Creek and in three tributary streams.

Due to the excellent water quality and abundant spring flow from the Edwards Aquifer, the entire Guadalupe River and its tributaries are used extensively for contact recreation and play a major role in the basin's economy.

Guadalupe River Basin Identified Water Quality Issues



Guadalupe River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 1801 Guadalupe River Tidal	Segment 1803 Guadalupe River Below San Marcos River	Segment 1803A Elm Creek	Segment 1803B Sandies Creek	Segment 1804 Guadalupe River Below Comal River	Segment 1804A Geronimo Creek	Segment 1804B Peach Creek	Segment 1805 Canyon Lake	Segment 1806 Guadalupe River Above Canyon Lake	Segment 1806A Camp Meeting Creek
DESIGNATED USE SUPPORT										
Contact Recreation	S	S	N	S	S	S	N	S	S	NA
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	S	X	X	S	X	X	S	S	X
Fish Consumption										
Human Health	S	S	NA	NA	NA	NA	NA	NA	S	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aquatic Life										
Dissolved Oxygen (Grab)	P	S	N	N	S	S	S	S	S	P
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	S	S	NA	NA	NA	NA	NA	NA	S	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT										
Water Temperature	S	S	X	X	S	X	X	S	S	X
pH	S	S	X	X	S	X	X	S	S	X
Chloride	X	S	X	X	S	X	X	S	S	X
Sulfate	X	S	X	X	S	X	X	S	S	X
Total Dissolved Solids	X	S	X	X	S	X	X	S	S	X

Guadalupe River Basin Graphical Summary (Continued)


Basin Map	Water Bodies									
	Segment 1801 Guadalupe River Tidal	Segment 1803 Guadalupe River Below San Marcos River	Segment 1803A Elm Creek	Segment 1803B Sandies Creek	Segment 1804 Guadalupe River Below Comal River	Segment 1804A Geronimo Creek	Segment 1804B Peach Creek	Segment 1805 Canyon Lake	Segment 1806 Guadalupe River Above Canyon Lake	Segment 1806A Camp Meeting Creek
WATER QUALITY CONCERNS										
Contact Recreation	X	X	X	X	X	X	X	X	X	C
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nutrient Enrichment										
Ammonia Nitrogen	NC	NC	C	NA	NC	NC	C	NC	NC	NA
Nitrite + Nitrate Nitrogen	NA	NC	NC	NC	NC	C	NC	NC	NC	NC
Orthophosphorus	NA	NC	NA	NA	NC	NA	NA	NC	NC	NA
Total Phosphorus	NC	NC	NA	NC	NC	NC	NC	NC	NC	NA
Chlorophyll <i>a</i>	NC	NA	NC	NA	NA	NA	NA	NC	NC	NC
Public Water Supply										
Finished Water Chloride	X	NC	X	X	NC	X	X	NC	NC	X
Finished Water Sulfate	X	NC	X	X	NC	X	X	NC	NC	X
Finished Water TDS	X	NC	X	X	NC	X	X	NC	NC	X
Surface Water Chloride	X	NC	X	X	NC	X	X	NC	NC	X
Surface Water Sulfate	X	NC	X	X	NC	X	X	NC	NC	X
Surface Water TDS	X	NC	X	X	NC	X	X	NC	NC	X
Aquatic Life										
Dissolved Oxygen	X	X	NA	X	X	X	X	X	X	NA
Metals in Water	X	X	NA	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	X	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern; NA = Not Assessed; X = Not Applicable

Guadalupe River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 1806B Cypress Creek	Segment 1806C Goat Creek	Segment 1806D Quinlan Creek	Segment 1806E Town Creek	Segment 1806F Turtle Creek	Segment 1806G Verde Creek	Segment 1807 Coletto Creek	Segment 1808 Lower San Marcos River	Segment 1809 Lower Blanco River	Segment 1810 Plum Creek
DESIGNATED USE SUPPORT										
Contact Recreation	NA	NA	NA	NA	NA	NA	S	S	S	S
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Public Water Supply	X	X	X	X	X	X	S	S	S	X
Fish Consumption										
Human Health	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aquatic Life										
Dissolved Oxygen (Grab)	S	S	S	S	S	S	S	S	S	S
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GENERAL USE SUPPORT										
Water Temperature	X	X	X	X	X	X	S	S	S	S
pH	X	X	X	X	X	X	S	S	S	S
Chloride	X	X	X	X	X	X	S	S	S	S
Sulfate	X	X	X	X	X	X	S	S	S	S
Total Dissolved Solids	X	X	X	X	X	X	S	S	S	S

Guadalupe River Basin Graphical Summary (Continued)

Basin Map	Water Bodies									
	Segment 1806B Cypress Creek	Segment 1806C Goat Creek	Segment 1806D Quinlan Creek	Segment 1806E Town Creek	Segment 1806F Turtle Creek	Segment 1806G Verde Creek	Segment 1807 Coleto Creek	Segment 1808 Lower San Marcos River	Segment 1809 Lower Blanco River	Segment 1810 Plum Creek
										
WATER QUALITY CONCERNS										
Contact Recreation	NC	X	NC	C	NC	C	X	X	X	X
Noncontact Recreation	X	X	X	X	X	X	X	X	X	X
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Narrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nutrient Enrichment										
Ammonia Nitrogen	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC	NC	NC	NC	NA	C
Orthophosphorus	NA	NA	NA	NA	NA	NA	NA	NC	NA	NC
Total Phosphorus	NA	NA	NA	NA	NA	NA	NC	NC	NC	NC
Chlorophyll <i>a</i>	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Public Water Supply										
Finished Water Chloride	X	X	X	X	X	X	NC	NC	NC	NC
Finished Water Sulfate	X	X	X	X	X	X	NC	NC	NC	NC
Finished Water TDS	X	X	X	X	X	X	NC	NC	NC	NC
Surface Water Chloride	X	X	X	X	X	X	NC	NC	NC	NC
Surface Water Sulfate	X	X	X	X	X	X	NC	NC	NC	NC
Surface Water TDS	X	X	X	X	X	X	NC	NC	NC	NC
Aquatic Life										
Dissolved Oxygen	NA	NA	NA	NA	NA	NA	X	X	X	X
Metals in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA


S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern; NA = Not Assessed; X = Not Applicable

Guadalupe River Basin Graphical Summary

Basin Map	Water Bodies									
	Segment 1811 Comal River	Segment 1811A Dry Comal Creek	Segment 1812 Guadalupe River Below Canyon Lake	Segment 1813 Upper Blanco River	Segment 1814 Upper San Marcos River	Segment 1815 Cypress Creek	Segment 1816 Johnson Creek	Segment 1817 North Fork Guadalupe River	Segment 1818 South Fork Guadalupe River	
DESIGNATED USE SUPPORT										
Contact Recreation	S	N	S	S	S	S	S	S	S	
Noncontact Recreation	X	X	X	X	X	X	X	X	X	
Public Water Supply	S	X	S	S	X	S	S	X	S	
Fish Consumption										
Human Health	NA	NA	S	NA	NA	NA	NA	NA	NA	
Advisories/Closures	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aquatic Life										
Dissolved Oxygen (Grab)	S	S	S	S	S	P	S	S	S	
Dissolved Oxygen (24-Hour)	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Macrobenthos	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fish	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GENERAL USE SUPPORT										
Water Temperature	S	X	S	S	S	S	S	S	S	
pH	S	X	S	S	S	S	S	S	S	
Chloride	S	X	S	S	S	S	S	S	S	
Sulfate	S	X	S	S	N	S	S	S	S	
Total Dissolved Solids	S	X	S	S	S	S	S	S	S	

S = Support; P = Partial Support; N = Nonsupport; T = Threatened; NC = No Concern; C = Concern; NA = Not Assessed; X = Not Applicable

Guadalupe River Basin Graphical Summary (Continued)

Basin Map	Water Bodies									
	Segment 1811 Comal River	Segment 1811A Dry Comal Creek	Segment 1812 Guadalupe River Below Canyon Lake	Segment 1813 Upper Blanco River	Segment 1814 Upper San Marcos River	Segment 1815 Cypress Creek	Segment 1816 Johnson Creek	Segment 1817 North Fork Guadalupe River	Segment 1818 South Fork Guadalupe River	
										
WATER QUALITY CONCERNS										
Contact Recreation	X	X	X	X	X	X	X	X	X	
Noncontact Recreation	X	X	X	X	X	X	X	X	X	
Fish Tissue	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sediment	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Narrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nutrient Enrichment										
Ammonia Nitrogen	NC	NC	NC	NC	NC	NC	NC	NC	NC	
Nitrite + Nitrate Nitrogen	NC	NC	NC	NC	NC	NC	NC	NC	NC	
Orthophosphorus	NC	NA	NC	NC	NC	NC	NC	NC	NC	
Total Phosphorus	NC	NC	NC	NC	NC	NC	NC	NC	NC	
Chlorophyll <i>a</i>	NC	NA	NC	NC	NC	NC	NC	NC	NC	
Public Water Supply										
Finished Water Chloride	NC	X	NC	NC	X	NC	NC	NC	NC	
Finished Water Sulfate	NC	X	NC	NC	X	NC	NC	NC	NC	
Finished Water TDS	NC	X	NC	NC	X	NC	NC	NC	NC	
Surface Water Chloride	NC	X	NC	NC	X	NC	NC	NC	NC	
Surface Water Sulfate	NC	X	NC	NC	X	NC	NC	NC	NC	
Surface Water TDS	NC	X	NC	NC	X	NC	NC	NC	NC	
Aquatic Life										
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	
Metals in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Organics in Water	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Water Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sediment Toxicity Tests	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Guadalupe River Basin

Segment 1801 - Guadalupe River Tidal

Water body description: From the confluence with Guadalupe Bay in Calhoun/Refugio County to the Guadalupe-Blanco River Authority Salt Water Barrier 0.7 km (0.4 miles) downstream of the confluence of the San Antonio River in Calhoun/Refugio County

Water body classification: Classified

Water body type: Tidal Stream

Water body length / area: 11.00 Miles

Use support summary: The aquatic life use is partially supported due to depressed dissolved oxygen concentrations. Other uses are supported.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A project is scheduled for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
12577	Guadalupe River Tidal Bridge at SH 35 NE of Tivoli

Guadalupe River Basin

Segment 1803 - Guadalupe River Below San Marcos River

Water body description: From the Guadalupe-Blanco River Authority Salt Water Barrier 0.7 km (0.4 miles) downstream of the confluence of the San Antonio River in Calhoun/Refugio County to the confluence of the San Marcos River in Gonzales River.

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 169.00 Miles

Use support summary: Available data indicate that all uses are supported in the lower 84 miles.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12578	Guadalupe River at lower Guadalupe diversion dam and salt water barrier
12581	Guadalupe River SH 175 south of Victoria
12585	Guadalupe River at US 59 in Victoria

Published studies

Publication	Date	Author
IS 1 Guadalupe River	Dec. 1977	Twidwell, S.
LP 91-04 Guadalupe River	Jan. 1991	Trebatoski, B. (Region 14)

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	14
Domestic	13
Industrial	44

Historical fish kills

Start date	Location	Fish killed	Suspected cause
01/03/1997	Cooling Pond, Dupont Nylon, Victoria Plant, Victoria	80	Unknown

Guadalupe River Basin

Segment 1803A - Elm Creek (unclassified water body)

Water body description: From the confluence of Sandies Creek east of Smiley in Gonzales County to the upstream perennial portion of the stream southwest of Smiley in Gonzales County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 24.30 Miles

Use support summary: The aquatic life use is not supported due to depressed dissolved oxygen concentrations. The contact recreation use is not supported due to elevated fecal coliform densities. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Ammonia nitrogen is a concern.

Additional information: A project is underway for dissolved oxygen and fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
15996	Elm Creek at Gonzales CR108, approx. 1.7km south of Smiley
15997	Elm Creek at Gonzales CR 534, approx. 6.7km ESE of Nixon

Guadalupe River Basin

Segment 1803B - Sandies Creek (unclassified water body)

Water body description: From the confluence of the Guadalupe River west of Cuero in DeWitt County to the upstream perennial portion of the stream northwest of Smiley in Gonzales County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 65.00 Miles

Use support summary: The aquatic life use is not supported due to depressed dissolved oxygen levels in the lower 25 miles. The contact recreation use is supported within the same reach. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A project is underway for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
13657	Sandies Creek 100 ft. downstream of county highway, 1.9 mi. upstream from Birds Creek, 2.0 mi. NE of Westhoff
14935	Sandies Creek at CR 953 OM DeWitt County
15998	Sandies Creek at FM 1116, 7.4 km east of Smiley and approx. 3km upstream of confluence. with Elm Creek

Guadalupe River Basin

Segment 1804 - Guadalupe River Below Comal River

Water body description: From the confluence of the San Marcos River in Gonzales County to the confluence of the Comal River in Comal County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 103.00 Miles

Use support summary: Available data indicate that the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12594	Guadalupe River SE of Seguin above Meadow Lake
12596	Lake Dunlap-Guadalupe River north bank at AC's Place at midpoint of Lone Star Drive
14940	Walnut Creek in Seguin City Park, 100 yds. upstream of Guadalupe River confluence
15110	Guadalupe River immediately downstream of H-5 Dam at Wood Lake, SW of Gonzales, TX
15149	Lake McQueeney, 0.5 mi. upstream of McQueeney Dam on southeast bank
15273	Lake McQueeney in main pool south of Treasure Island, 1.2 km upstream of dam

Published studies

Publication	Date	Author
IMS 34 Lakes Dunlap and McQueeney	Dec. 1974	Ottmers, D.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	7
Industrial	7

Historical fish kills

Start date	Location	Fish killed	Suspected cause
05/29/1995	Lake McQueeney	8	Unknown
02/01/1997	West shore of Lake Placid from 0.2 mi above I-10 bridge to 0.8 mi below I-10 bridge.	176	Temperature
10/28/1997	Nash Creek - 0.5 mi downstream of CR 1150 (Darst Oil Field)	309	Inorganic compound

Guadalupe River Basin

Segment 1804A - Geronimo Creek (unclassified water body)

Water body description: From the confluence of the Guadalupe River south of Seguin in Guadalupe County to the upstream perennial portion north of Seguin in Guadalupe County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 15.00 Miles

Use support summary: Available data indicate that the aquatic life and contact recreation uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Nitrite + nitrate nitrogen is a concern.

Monitoring sites used in the assessment

Station	Station Description
14932	Geronimo Creek at SH 123 near Geronimo, TX

Guadalupe River Basin

Segment 1804B - Peach Creek (unclassified water body)

Water body description: From the confluence of the Guadalupe River southeast of Gonzales in Gonzales County to the upstream perennial portion of the stream northeast of Waelder in Gonzales County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 64. Miles

Use support summary: The contact recreation use is not supported due to elevated fecal coliform densities in the lower 25 miles. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Ammonia nitrogen is a concern in the lower 25 miles.

Additional information: A project is underway for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
14937	Peach Creek at CR 353 in Gonzales County

Guadalupe River Basin

Segment 1805 - Canyon Lake

Water body description: From Canyon Dam in Comal County to a point 2.7 km (1.7 miles) downstream of Rebecca Creek Road in Comal County, up to normal pool elevation of 909 feet (impounds Guadalupe River)

Water body classification: Classified

Water body type: Reservoir

Water body length / area: 8,240 Acres

Use support summary: The aquatic life, contact recreation, public water supply and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12598	Canyon Lake South of Jacobs Creek Park 500 yards east of peninsula
12600	Canyon Lake mid-lake south of Potters Creek Park at west end of park
12601	Canyon Lake headwaters above Cranes Mill Park
13836	Canyon Lake USGS site AC
13838	Canyon Lake USGS site AR
13839	Canyon Lake USGS site BC
13840	Canyon Lake USGS site CC
13841	Canyon Lake USGS site DC
13842	Canyon Lake USGS site EC
13843	Canyon Lake USGS site FC

Wastewater dischargers

Permit type	Number of outfalls
Domestic	3

Historical fish kills

Start date	Location	Fish killed	Suspected cause
09/04/1998	Canyon Lake - Community park in the rear of Tom Creek cove	1,000	Solid Waste/Debris

Guadalupe River Basin

Segment 1806 - Guadalupe River Above Canyon Lake

Water body description: From a point 2.7 km (1.7 miles) downstream of Rebecca Creek Road in Comal County to the confluence of North Fork Guadalupe River and the South Fork Guadalupe in Kerr County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 103.00 Miles

Use support summary: Available data indicate that all uses are supported.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12603	Guadalupe River at IH 10 in Comfort
12605	Guadalupe River at county rd adjacent to Hermann Sons' Home, west of Comfort
12606	Guadalupe River at county rd, 0.5 mi below Cherry Creek confluence, west of Comfort at segment km 152.2
12608	Guadalupe River Center Point Lake
12610	Guadalupe River at county rd, 0.1 mi above confluence of Turtle Creek at segment km 166.2
12611	Guadalupe River County Rd below Flat Rock Dam, at segment km 172.5
12615	Guadalupe River at Kerrville State Park, segment km 174.4
12616	Guadalupe River at G Street (formerly Old Medina Rd) in Kerrville, segment km 177.9
12617	Guadalupe River at SH 16 in Kerrville
12618	Guadalupe River at UGRA Lake Dam
12619	Guadalupe River at Bear Creek Road, 1 mi. west of Kerrville
12620	Guadalupe River at Ingram Dam in Ingram
12621	Guadalupe River at SH 39 near Hunt, 0.1 km below the north/south fork confluence.

Monitoring sites, continued

Station	Station Description
13700	Guadalupe River at RR 311, 1.9 mi. SE of Spring Branch, 7.5 mi. downstream from Curry Creek
14255	Guadalupe River at US 281 north of San Antonio
15111	Guadalupe River at Riverview Rd in Ingram, TX
15113	Guadalupe River at Split Rock Rd off SH 27, 2.6 km downstream of Flatrock Dam

Published studies

Publication	Date	Author
IS 87-02 Guadalupe River	Nov. 1983	Twidwell, S.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	14
Industrial	1

Guadalupe River Basin

Segment 1806A - Camp Meeting Creek (unclassified water body)

Water body description: From the confluence of Flatrock Lake in southeast Kerrville in Kerr County to the upstream perennial portion of the stream west of Kerrville in Kerr County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 18.00 Miles

Use support summary: The aquatic life use is partially supported due to depressed dissolved oxygen concentrations. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Fecal coliform is a concern.

Additional information: A project is underway for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
12546	Camp Meeting Creek, 0.1 km above confluence with Guadalupe in Kerrville

Guadalupe River Basin

Segment 1806B - Cypress Creek (unclassified water body)

Water body description: From the confluence of the Guadalupe River in Comfort in Kendall County to the upstream perennial portion of the stream east of Kerrville in Kerr County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 10.00 Miles

Use support summary: Available data indicate that the aquatic life use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12551	Cypress Creek, 1.4 km above confluence with Guadalupe River in Comfort

Guadalupe River Basin

Segment 1806C - Goat Creek (unclassified water body)

Water body description: From the confluence of the Guadalupe River in Kerrville in Kerr County to the upstream perennial portion of the stream north of Kerrville in Kerr County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 6.00 Miles

Use support summary: Available data indicate that the aquatic life use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12547	Goat Creek at Acadia Loop in Kerrville

Guadalupe River Basin

Segment 1806D - Quinlan Creek (unclassified water body)

Water body description: From the confluence of the Guadalupe River in Kerrville in Kerr County to the upstream perennial portion of the stream north of Kerrville in Kerr County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 7.00 Miles

Use support summary: Available data indicate that the aquatic life use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12541	Quinlan Creek at Travis Street in Kerrville
12542	Quinlan Creek in North Kerrville at IH 10

Guadalupe River Basin

Segment 1806E - Town Creek (unclassified water body)

Water body description: From the confluence of the Guadalupe River in Kerrville in Kerr County to the upstream perennial portion of the stream north of Kerrville in Kerr County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 6.00 Miles

Use support summary: Available data indicate that the aquatic life use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Fecal coliform is a concern.

Monitoring sites used in the assessment

Station	Station Description
12549	Town Creek at Hamilton Street in Kerrville
12550	Town Creek in north Kerrville on Town Creek Road

Guadalupe River Basin

Segment 1806F - Turtle Creek (unclassified water body)

Water body description: From the confluence of the Guadalupe in Center Point in Kerr County to the upstream perennial portion of the stream southwest of Kerrville in Kerr County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 20.00 Miles

Use support summary: Available data indicate that the aquatic life use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12544	Turtle Creek, at county rd, 0.1 mi above confluence of Guadalupe R., west of Center Point

Guadalupe River Basin

Segment 1806G - Verde Creek (unclassified water body)

Water body description: From the confluence of the Guadalupe River east of Center Point in Kerr County to the upstream perennial portion of the stream northwest of Bandera in Bandera County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 11.00 Miles

Use support summary: Available data indicate that the aquatic life use is supported. Other uses were not assessed due to insufficient data.

Water quality concerns summary: Fecal coliform is a concern.

Monitoring sites used in the assessment

Station	Station Description
12543	Verde Creek, 0.2 km upstream of confluence with Guadaupe R. near Center Point

Guadalupe River Basin

Segment 1807 - Coleta Creek

Water body description: From the confluence with the Guadalupe River in Victoria County to the confluence of Fifteenmile Creek and Twelvemile Creek in Goliad/Victoria County, including Coleta Creek Reservoir

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 27.00 Miles

Use support summary: Available data indicate that the aquatic life, contact recreation, public water supply, and general uses are supported in the lower 12 miles. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12622	Coleta Creek at US 77 south of Victoria
12623	Coleta Creek at US 59 on Victoria-Goliad county line

Wastewater dischargers

Permit type	Number of outfalls
Domestic	3
Industrial	21

Guadalupe River Basin

Segment 1808 - Lower San Marcos River

Water body description: From the confluence with the Guadalupe River in Gonzales County to a point 1.0 km (0.6 miles) upstream of the Blanco River in Hays County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 75.00 Miles

Use support summary: Available data indicate that the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12624	Lower San Marcos River at low water crossing, pr 11 in Palmetto Bend State Park
12626	Lower San Marcos River at SH 80 south of Luling
12628	Lower San Marcos River at county road immediately below confluence of San Marcos and Blanco Rivers

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	4
Domestic	14
Industrial	1

Guadalupe River Basin

Segment 1809 - Lower Blanco River

Water body description: From the confluence with the San Marcos River in Hays County to a point 0.3 km (0.2 miles) upstream of Limekiln Road in Hays County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 15.00 Miles

Use support summary: Available data indicate that the aquatic life, contact recreation, public water supply and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12631	Blanco River at Hays CR 295 east of San Marcos
12637	Blanco River upstream 6.3 mi from bridge on US 81/IH 35

Published studies

Publication	Date	Author
IS 86-04 Blanco River	June 1985	Respass, R.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1

Guadalupe River Basin

Segment 1810 - Plum Creek

Water body description: From the confluence with the San Marcos River in Caldwell County to FM 2770 in Hays County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 52.00 Miles

Use support summary: The aquatic life, contact recreation, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Nitrite + nitrate nitrogen is a concern.

Additional information: A wasteload evaluation (WLE) for dissolved oxygen was approved in 1991 and has been incorporated into the state Water Quality Management Plan. Advanced waste treatment is required for one or more dischargers.

Monitoring sites used in the assessment

Station	Station Description
12640	Plum Creek at old wooden bridge on Caldwell CR 135, SE of Luling
12645	Plum Creek at CR 197, SE of Lockhart

Published studies

Publication	Date	Author
IS 70 Plum Creek	Sept. 1983	Respass, R.
IS 89-02 Plum Creek	Sept. 1987	Petrick, D.

Wastewater dischargers

Permit type	Number of outfalls
Agriculture	1
Domestic	9

Historical fish kills

Start date	Location	Fish killed	Suspected cause
11/20/1995	Lockhart City Park lake in Lockhart	31	Low Dissolved Oxygen

Guadalupe River Basin

Segment 1811 - Comal River

Water body description: From the confluence with the Guadalupe River in Comal County to Klingemann Street in New Braunfels in Comal County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 4.00 Miles

Use support summary: The aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12653	Comal River below Clemons Dam in New Braunfels

Published studies

Publication	Date	Author
IS 87-08 Comal River	Nov. 1983	Twidwell, S.

Wastewater dischargers

Permit type	Number of outfalls
Domestic	5
Industrial	4

Guadalupe River Basin

Segment 1811A - Dry Comal Creek (unclassified water body)

Water body description: From the confluence of the Comal River in New Braunfels in Comal County to the upstream perennial portion of the stream southwest of New Braunfels in Comal County

Water body classification: Unclassified

Water body type: Freshwater Stream

Water body length / area: 30.00 Miles

Use support summary: The contact recreation use is not supported due to elevated fecal coliform densities in the lower 25 miles. The aquatic life use is supported in the same reach. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A project is underway for fecal coliform bacteria to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
12570	Dry Comal Creek at Missouri-Kansas-Texas Railroad Crossing in New Braunfels

Guadalupe River Basin

Segment 1812 - Guadalupe River Below Canyon Dam

Water body description: From the confluence of the Comal River in Comal County to Canyon Dam in Comal County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 23.00 Miles

Use support summary: Available data indicate that all uses are supported.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12656	Guadalupe River at the beginning of Cypress Bend Park in New Braunfels
12658	Guadalupe River at River Rd 2nd crossing, upstream of New Braunfels
13656	Guadalupe River 200 ft. Upstream from Horseshoe Falls, 0.8 mi. north of Sattler, 1.8 mi. downstream from canyon dam

Wastewater dischargers

Permit type	Number of outfalls
Domestic	3

Historical fish kills

Start date	Location	Fish killed	Suspected cause
08/10/1994	Tubing recreation "horseshoe" in Guadalupe River at highway 306	9	Unknown
05/12/1996	Guadalupe River	23	Organic compound
05/12/1997	Guadalupe River at River Road (1st crossing downstream of Sattler, TX)	2	Organic compound

Guadalupe River Basin

Segment 1813 - Upper Blanco River

Water body description: From a point 0.3 km (0.2 miles) upstream of Limekiln Road in Hays County to the confluence of Meier Creek in Kendall County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 71.00 Miles

Use support summary: Available data indicate that the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12661	Blanco River at bridge on SH 12 at Wimberley
12668	Blanco River at FM 165 ½ mile east of Blanco
12669	Blanco River at Blanco State Park, PR 23

Wastewater dischargers

Permit type	Number of outfalls
Domestic	10

Historical fish kills

Start date	Location	Fish killed	Suspected cause
04/02/1996	Blanco River	20	Unknown

Guadalupe River Basin

Segment 1814 - Upper San Marcos River

Water body description: From a point 1.0 km (0.6 miles) upstream of the confluence of the Blanco River in Hays County to a point 0.7 km (0.4 miles) upstream of Loop 82 in San Marcos in Hays County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 5.00 Miles

Use support summary: General uses are not supported due to the elevated average sulfate concentration. Available data indicate that the aquatic life, contact recreation, and public water supply uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A project is scheduled for sulfate to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
12671	Upper San Marcos River 0.7 mile downstream from IH 35
12672	Upper San Marcos River immediately upstream of IH 35 Bridge at San Marcos

Wastewater dischargers

Permit type	Number of outfalls
Domestic	1
Industrial	1

Historical fish kills

Start date	Location	Fish killed	Suspected cause
07/15/1995	Spring Lake	50	Disease

Guadalupe River Basin

Segment 1815 - Cypress Creek

Water body description: From the confluence with the Blanco River in Hays County to a point 6.4 km (4.0 miles) upstream of the most upstream unnamed county road crossing in Hays County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 14.00 Miles

Use support summary: The aquatic life use is partially supported due to depressed dissolved oxygen concentrations. The contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Additional information: A project is underway for dissolved oxygen to do one or more of the following: assess the relevant water quality standard; to confirm the impairment; to conduct a total maximum daily load (TMDL) to evaluate the causes and sources and allocate the allowable loading; or to correct the impairment under another program. For more information on specific TMDL projects, visit the TNRCC Web site at www.tnrcc.state.tx.us/water/quality/tmdl/.

Monitoring sites used in the assessment

Station	Station Description
12674	Cypress Creek at FM 12 at Wimberley

Wastewater dischargers

Permit type	Number of outfalls
Domestic	8

Guadalupe River Basin

Segment 1816 - Johnson Creek

Water body description: From the confluence with the Guadalupe River in Kerr County to a point 1.2 km (0.7 miles) upstream of the most upstream crossing of SH 41 in Kerr County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 21.00 Miles

Use support summary: Available data indicate that the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12678	Johnson Creek at SH 39 in Ingram
12679	Johnson Creek at Tecaboca Camp

Guadalupe River Basin

Segment 1817 - North Fork Guadalupe River

Water body description: From the confluence with the Guadalupe River in Kerr County to a point 18.2 km (11.3 miles) upstream of Boneyard Draw in Kerr County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 29.00 Miles

Use support summary: Available data indicate that the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12681	North Fork Guadalupe River at FM 1340
12682	North Fork Guadalupe at river gaging station near camp Waldemar
12683	North Fork Guadalupe River at eastern boundary of Kerr Wildlife Management area

Wastewater dischargers

Permit type	Number of outfalls
Domestic	5

Guadalupe River Basin

Segment 1818 - South Fork Guadalupe River

Water body description: From the confluence with the Guadalupe River in Kerr County to a point 4.8 km (3.0 miles) upstream of FM 187 in Kerr County

Water body classification: Classified

Water body type: Freshwater Stream

Water body length / area: 27.00 Miles

Use support summary: Available data indicate that the aquatic life, contact recreation, public water supply, and general uses are supported. The fish consumption use was not assessed due to insufficient data.

Water quality concerns summary: Available data indicate that there are no water quality concerns.

Monitoring sites used in the assessment

Station	Station Description
12684	South Fork Guadalupe adjacent to Hunt Lions Park
12685	South Fork Guadalupe adjacent to Camp Arrowhead
12686	South Fork Guadalupe adjacent to Camp Mystic
12687	South Fork Guadalupe at River Inn, second crossing upstream from Camp Mystic

Wastewater dischargers

Permit type	Number of outfalls
Domestic	1

