

Laguna Madre

Segment: 2491 Bays and Estuaries

Basin number: 24
Basin group: E
Water body classification: Classified
Water body type: Estuary
Water body length / area: 347.4 Sq. miles
Water body uses: Aquatic Life Use, Contact Recreation Use, General Use, Fish Consumption Use, Oyster Waters Use

Standards Not Met and Concerns in Previous Years Assessment Area	Use	Support Status or Concern	Parameter	Category
Area around the mouth of Baffin Bay	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c
Area around the mouth of the Arroyo Colorado	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c
Area near upper end of Padre Island National Seashore	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c
Upper Laguna Madre near Packery Channel Park	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c

Parameters Removed from the 2000 303(d) List: bacteria (oyster waters)

Additional Information: The contact recreation, general and oyster waters uses were fully supported. The fish consumption use was not assessed.

This segment was identified on the 2000 303(d) List as partially supporting the aquatic life use due to depressed dissolved oxygen in several areas. Because an insufficient number of 24-hour dissolved oxygen values were available in 2002 to determine if the criterion is supported, this segment will be identified as not meeting the standard for dissolved oxygen until sufficient 24-hour measurements are available to demonstrate support of the criterion.

2002 Concerns: Assessment Area	Use or Concern	Concern Status	Description of Concern
18.1 square miles near the Arroyo Colorado and along the ICWW	Oyster Waters Use	Use Concern	bacteria (oyster waters)
Area around the mouth of Baffin Bay	Algal Growth Concern	Concern	excessive algal growth
Area around the mouth of the Arroyo Colorado	Nutrient Enrichment Concern	Concern	ammonia

(based on data from 03/01/1996 to 02/28/2001)

2002 Concerns:			
Assessment Area	Use or Concern	Concern Status	Description of Concern
Area around the mouth of the Arroyo Colorado	Nutrient Enrichment Concern	Concern	nitrate+nitrite nitrogen
Area around the mouth of the Arroyo Colorado	Nutrient Enrichment Concern	Concern	orthophosphorus
Area around the mouth of the Arroyo Colorado	Nutrient Enrichment Concern	Concern	total phosphorus

Monitoring sites used:		
Assessment Area	Station ID	Station Description
Area adjacent to the Laguna Atascosa National Wildlife Refuge	14844	LAGUNA MADRE AT ICWW MARKER 49
Area around Morano Blanco	14845	LAGUNA MADRE AT ICWW CM 109
Area around Morano Blanco	15596	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO NEAR SW SHORELINE, 0.6 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15597	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO NEAR SOUTHERN SHORELINE, 0.8 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15598	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO NEAR SOUTHERN SHORELINE, 0.5 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15599	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO NEAR SOUTHERN SHORELINE, 0.55 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15600	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO, MID-COVE, 0.5 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15601	LOWER LAGUNA MADRE, COVE IMMEDIATELY SOUTH OF MORANCO BLANCO, MID-COVE, 0.3 KM UPSTREAM OF MOUTH
Area around Morano Blanco	15602	LOWER LAGUNA MADRE NEAR WEST SHORELINE, BORDERING LAGUNA ATASCOSA NATIONAL WILDLIFE REFUGE, 1.9 KM NORTH OF MORANCO BLANCO POINT
Area around Morano Blanco	15604	LOWER LAGUNA MADRE NEAR WEST SHORELINE BORDERING LAGUNA ATASCOSA NATIONAL WILDLIFE REFUGE, 0.75 KM NORTH OF MORANCO BLANCO POINT
Area around Morano Blanco	15605	LOWER LAGUNA MADRE NEAR WEST SHORE BORDERING LAGUNA ATASCOSA NATIONAL WILDLIFE REFUGE, 0.7 KM NORTH OF MORANCO BLANCO POINT
Area around Port Mansfield	13448	LAGUNA MADRE INTERSECTION OF INTRACOASTAL CANAL AND PORT MANSFIELD CHANNEL
Area around Port Mansfield	14843	LAGUNA MADRE AT PORT MANSFIELD CM 40
Area around Port Mansfield	17117	LAGUNA MADRE 1/4 MI. NW OF ICWW CM 284 IN THE TURNING CHANNEL BETWEEN THE ICWW AND THE PT. MANSFIELD CHANNEL
Area around Rincon de San Jose	13449	LAGUNA MADRE CHANNEL MARKER C-225A NORTH OF PORT MANSFIELD
Area around the mouth of Baffin Bay	13444	LAGUNA MADRE AT INTERSECTION OF ICWW AT BAFFIN BAY MARKER
Area around the mouth of the Arroyo Colorado	13447	LAGUNA MADRE INTERSECTION OF INTRACOASTAL CANAL AND ARROYO COLORADO
Area near upper end of Padre Island National Seashore	13445	LAGUNA MADRE AT ICWW NEAR BIRD ISLAND
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	13446	LAGUNA MADRE INTRACOASTAL CANAL AT MARKER 129 EAST OF PORT ISABEL

Monitoring sites used:		
Assessment Area	Station ID	Station Description
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14862	LAGUNA MADRE 300 YDS. NE OF ENTRANCE TO YACHT CLUB TURNING BASIN
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14868	LAGUNA MADRE 200 YDS. OFF SOUTH PADRE ISLAND 2 MI. NORTH OF THE CAUSEWAY
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14876	LAGUNA MADRE AT THE MIDDLE OF THE SOUTH PADRE ISLAND CAUSEWAY
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14878	LAGUNA MADRE AT ENTRANCE TO SEA RANCH MARINA CHANNEL
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	14879	LAGUNA MADRE 1/4 MI. SOUTH OF COASTGUARD BOAT DOCKS
Lower Laguna Madre from Andie Bowie Park to Isla Blanca Park to Port Isabel	17100	LAGUNA MADRE, 400M WEST OF ANDY BOWIE PARK
Lower Laguna Madre near Laguna Heights and Laguna Vista	14861	LAGUNA MADRE 300 YDS. NW OF THE YACHT CLUB TURNING BASIN ENTRANCE
Lower Laguna Madre near Laguna Heights and Laguna Vista	14869	LAGUNA MADRE 200 YDS. OFF LAGUNA HEIGHTS SHORELINE
Lower Laguna Madre near Laguna Heights and Laguna Vista	14870	LAGUNA MADRE 200 YDS. OFF LAGUNA VISTA SHORELINE
Upper Laguna Madre near Packery Channel Park	13443	LAGUNA MADRE SOUTH OF THE INTERSECTION OF ICWW AND PADRE ISLAND CAUSEWAY

Published studies:		
Publication	Date	Author
IS 68 Port Mansfield	Oct. 1983	Bowles, R. (Region 15)

Historical fish kills:			
Date	Location	Fish Killed	Suspected Cause
5/20/1996	Laguna Madre, Irrigation ditch near La Sara, Raymondville, FM 186	400	Low Dissolved Oxygen
5/31/1996	Laguna Madre, Tropic Isles Subdivision, Flour Bluff	10000	Low Dissolved Oxygen
9/29/1996	Punta Bonair, off of Sea Pines, Padre Isles Canals, Laguna Madre	20	Low Dissolved Oxygen
8/23/1997	Laguna Madre, Tropic Isles Canals, off Carribean and Azores	1000	Low Dissolved Oxygen
12/25/1998	Port Isabel finger channels (Laguna Madre)	5045	Temperature
12/29/1998	Canal adjacent to Cobo de Bara Circle on Padre Island (Laguna Madre)	200	Temperature
1/4/1999	Western section of upper Laguna Madre Bay from shore out to intracoastal canal	47917	Physical Damage/Trauma
7/10/2000	Padre Island, Corpus Christi, Texas - Commodore Cove Subdivision	22	Low Dissolved Oxygen