

State of Texas 1996 303(d) List for Coastal Zone Area (11/17/97)

Legend for coded columns (3-8 and 10):

Standards Support (3) : N = nonsupport of designated use(s); P = partial support of designated use(s); X = exceeded numeric criteria

When multiple levels of standards support are applicable for a segment, only the most severe level is indicated.

On NPS List (4) : Y indicates the segment has been determined to have significant nonpoint source contributions and is included in the draft Nonpoint Source Pollution Assessment Report for the State of Texas, 1996 Update.

NPS Urban (5): The symbol Δ indicates NPS impairments in the segment are from urban sources

NPS Urban & Ag (6): The symbol ⊕ indicates NPS impairments in the segment are from both urban and agricultural sources

Targeted (7) : A large bullet (●) indicates the segment is targeted for TMDL development work during the next two years. Completion of TMDLs during that two year period cannot be assured. Other studies or projects that may support TMDLs are planned or underway, but are not indicated.

Basin Group (8):

Letter code (A - E) indicates which group of river basins the segment is associated with in the TNRCC permitting by basin cycles. Shaded lines in table separate basin groups. Within basin groups, segments are arranged by priority level, then by segment number.

Group A - Canadian River, Red River, Sulphur River, Cypress Creek, Sabine River, Sabine Pass, Neches River, Trinity River (partial)

Group B - Trinity River (continued), San Jacinto River (partial)

Group C - San Jacinto River (continued), Neches-Trinity Coastal, Trinity-San Jacinto Coastal, San Jacinto-Brazos Coastal, Bays and Estuaries

Group D - Brazos River, Brazos-Colorado Coastal, Lavaca River, Colorado River (partial), Bays and Estuaries

Group E - Colorado River (continued), Guadalupe River, San Antonio River, Rio Grande, Nueces River, San Antonio-Nueces Coastal, Colorado-Lavaca-Nueces-Rio Grande Coastal, Bays and Estuaries, Gulf of Mexico

Priority (10) :

H = high; M = medium; L = low; T = threatened (data do not show statistically significant noncompliance with water quality standards)

Segment Number	Segment Name	Standards Support	On NPS List	NPS Urban	NPS Urban & Ag	Targeted	Basin Group	Segment Summary	Priority	Reasons
513	Big Cow Creek	N					A	Due to elevated levels of fecal coliform bacteria, the contact recreation use is not supported in the lower 25 miles of the segment. The designated high aquatic life use is partially supported in the same portion of the segment due to elevated levels of dissolved aluminum in water.	M	Sabine River Authority agrees that more data is needed to define aluminum problem; fecal coliform has minor effect on use
602	Neches River Below B.A. Steinlagen Lake	N	Y				A	Although there have been no violations of the cadmium in water acute criterion, the mean exceeds the chronic criterion causing nonsupport of the aquatic life use in an area near Silsbee.	M	Need more data on cadmium
604	Neches River Below Lake Palestine	N					A	Low dissolved oxygen levels occur in the uppermost portion of the segment when bottom waters are released from Lake Palestine; however, they do not occur with enough frequency to cause nonsupport of the aquatic life use. Although there have been no violations of the cadmium in water acute criterion, the mean of samples exceeds the chronic criterion causing nonsupport of the aquatic life use in an area near Rockland (US 69).	M	Need more data on cadmium; occasional low DO has very minor effect and is uncontrollable

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607	Pine Island Bayou	N	Y				A	Depressed dissolved oxygen levels and elevated fecal coliform densities occur primarily during summer conditions when stream flow becomes sluggish. As a result, the high aquatic life and contact recreation uses are not supported in the middle portion of the segment. A use attainability analysis has been scheduled for this segment by the TNRCC to evaluate applicability of the high aquatic life use and the causes of depressed dissolved oxygen.	M	More data is needed to determine appropriate standards, and study is scheduled; natural conditions contribute to low DO and fecal coliform levels
503	Sabine River Below Toledo Bend Reservoir	N	Y				A	The lower 25 miles of the segment do not support the contact recreation use due to elevated levels of fecal coliform bacteria, nor the designated high aquatic life use due to elevated levels of dissolved lead in water. The upper 25 miles of the segment do not support the designated high aquatic life use due to elevated levels of dissolved lead and cadmium in water. Comments received from the Sabine River Authority reported that their analyses do not verify the nonsupport designations described above, and indicate a belief that the segment should not be designated as having a Medium priority for TMDL development for the listed constituents.	L	Fecal coliform has minor effect on uses; data needed to define metals problem; Sabine River Authority does not believe that TMDL development is appropriate at this time.
508	Adams Bayou Tidal	N	Y				A	As a result of depressed dissolved oxygen concentrations and elevated fecal coliform levels, the segment does not meet the high aquatic life nor the contact recreation uses. Sluggish flow coupled with organic loading from industrial and municipal wastewater discharges likely contribute to the problem.	L	Low dissolved oxygen is likely to be due to natural conditions; fecal coliform has minor effect on uses
601	Neches River Tidal	P	Y	△			A	Fecal coliform densities are elevated throughout most of the segment causing partial support the contact recreation use.	T	Very minor effect on uses
802	Trinity River Below Lake Livingston	N	Y				B	The aquatic life use is not supported in the lower 25 miles, because the mean dissolved cadmium concentration exceeds the chronic aquatic life criterion. The contact recreation use is only partially supported from US 59 to FM 787, and not supported from US 90 to the lower end, due to elevated fecal coliform bacteria levels.	M	Need more data on cadmium; fecal coliform has minor effect on uses and is geographically limited
1007	Houston Ship Channel/Bufalo Bayou Tidal	N	Y	△		●	B	A restricted consumption advisory for the general population and a no consumption advisory for children and women of child-bearing age have been issued by the Texas Department of Health due to elevated levels of dioxin in edible blue crabs and catfish tissue. Fourteen miles of the segment have been affected by these advisories. A paper mill is listed as the source of dioxin. Copper in water exceeded the chronic criteria in the 1990-1994 data set. However, metals data collected before 1992 may be misleading. More modern "super clean" sampling and better laboratory techniques provide much more dependable data. The latest metals data from the Houston Ship Channel indicate that only a few tributary sites may occasionally exceed the relevant criteria. TMDLs for metals have been in development for several years, and will continue based on the most reliable recent data.	M	TMDLs for copper and other metals will be developed soon; dioxin is being monitored

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1014	Buffalo Bayou Above Tidal	N	Y	□			B	Elevated fecal coliform levels caused nonsupport of the contact recreation use.	M	Fecal coliform has moderate impact on recreational use; more study to determine source of impairment is recommended
1017	Whiteoak Bayou Above Tidal	N	Y	□			B	Elevated fecal coliform bacteria levels cause nonsupport of the contact recreation use. This segment is impacted by both urban stormwater runoff, in addition to numerous municipal point source discharges.	M	Fecal coliform has moderate impact on recreational use; more study to determine source of impairment is recommended
801	Trinity River Tidal	P	Y				B	The contact recreation use is only partially supported in the lower 7 miles, due to elevated fecal coliform bacteria levels.	T	Minor effect on uses; geographically limited; limited data set does not support initial assessment of impairment
1010	Caney Creek	P	Y				B	Moderately elevated fecal coliform caused partial support of contact recreation in the lower portion of the segment. The rest of the segment has no known water quality problems.	T	Very minor effect on uses
1013	Buffalo Bayou Tidal	N	Y	□			B	Elevated fecal coliform bacteria caused nonsupport of the contact recreation use.	T	Minor effect on use
1002	Lake Houston	N	Y	□			C	Fecal coliform levels were moderately elevated causing partial support of the contact recreation use. The dissolved oxygen criterion is partially supported in the lower third of the lake (near the dam). Elevated levels of diazinon in water exceeded the chronic criterion in the upper half of the lake (West and East Fork of the San Jacinto River arms). Elevated concentrations of lead and cadmium in water exceeded the chronic criteria in the lower half of the lake (near the dam). This caused nonsupport of the high aquatic life use in the entire segment. This segment is impacted by urban stormwater runoff.	M	Need more data on metals and diazinon; fecal coliform is closely monitored by local entities; episodic and geographically limited low DO has minor effect on uses

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1005	Houston Ship Channel/San Jacinto River Tidal	N	Y	□		●	C	A restricted consumption advisory for the general population and a no consumption advisory for children and women of child-bearing age have been issued by the Texas Department of Health due to elevated levels of dioxin in blue crabs and catfish. Twelve miles of the segment have been affected by these advisories. A paper mill is listed as the source of dioxin. Fecal coliform levels are moderately elevated causing partial support of the noncontact recreation use. Nickel in water concentrations exceeded the chronic criterion in the 1990-1994 data set, causing nonsupport for the high aquatic life use. However, metals data collected before 1992 may be misleading. More modern "super clean" sampling and better laboratory techniques provide much more dependable data. The latest metals data from the Houston Ship Channel indicate that only a few tributary sites may occasionally exceed the relevant criteria. TMDLs for metals have been in development for several years, and will continue based on the most reliable recent data.	M	TMDLs for nickel and other metals will be developed soon; fecal coliform has minor effect on uses
1006	Houston Ship Channel Tidal	N	Y	□		●	C	A restricted consumption advisory for the general population and a no consumption advisory for children and women of child-bearing age have been issued by the Texas Department of Health due to elevated levels of dioxin in blue crabs and catfish. Six miles of the segment have been affected by these advisories. A paper mill is listed as the source of dioxin. Copper and nickel in water exceeded the chronic criteria in the 1990-1994 data set. However, metals data collected before 1992 may be misleading. More modern "super clean" sampling and better laboratory techniques provide much more dependable data. The latest metals data from the Houston Ship Channel indicate that only a few tributary sites may occasionally exceed the relevant criteria. TMDLs for metals have been in development for several years, and will continue based on the most reliable recent data. Patrick Bayou tributary (near Deer Park) is known to have water quality impairments associated with industrial and other discharges.	M	TMDLs for copper, nickel and other metals will be developed soon; water quality impairments in Patrick Bayou need more investigation
1008	Spring Creek	N	Y	☒	☒		C	Elevated fecal coliform bacteria levels cause nonsupport of the contact recreation use. Low dissolved oxygen levels caused partial support of the high aquatic life use.	M	Moderate impact due to fecal coliform, need to monitor situation for possible NPS and proper operation of wastewater treatment plants; episodic low DO has minor effect, and may be due to natural conditions

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1009	Cypress Creek	N	Y	△			C	Elevated fecal coliform levels caused nonsupport of the contact recreation use.	M	Moderate impact due to fecal coliform, need to monitor situation for possible NPS and proper operation of wastewater treatment plants; draft TMDL for DO was recently prepared
1016	Greens Bayou Above Tidal	N	Y	△			C	Elevated fecal coliform bacteria levels caused nonsupport of the contact recreation use. This segment is impacted by both urban stormwater runoff, in addition to numerous municipal point source discharges.	M	Moderate impact due to fecal coliform, need to monitor situation for possible NPS and proper operation of wastewater treatment plants; TMDL for DO is in preparation
1101	Clear Creek Tidal	N	Y	△			C	A fish and shellfish no consumption advisory was issued for the general population by the Texas Department of Health in November 1993 for Clear Creek. The affected area includes 8.3 miles of Segment 1101 (the section of Clear Creek upstream of Highway 3 in Galveston County) and all of Segment 1102. The advisory warns against consuming any fish or blue crabs taken from Clear Creek. Test results from fish caught in Clear Creek reveal the contaminants dichloroethane, trichloroethane, carbon disulfide, and chlordane in fish tissue. Possible sources of these contaminants include the former Brio Refinery Company (an USEPA Superfund site) and rainfall run-off. Due to elevated fecal coliform densities, the contact recreation use is not supported.	M	More data is needed to determine the extent and source of contact recreation impairment
1102	Clear Creek Above Tidal	N	Y	△			C	A fish and shellfish no consumption advisory was issued for the general population by the Texas Department of Health in November 1993 for Clear Creek. The affected area includes 8.3 miles of Segment 1101 (the section of Clear Creek upstream of Highway 3 in Galveston County) and all of Segment 1102. The advisory warns against consuming any fish or blue crabs taken from Clear Creek. Test results from fish caught in Clear Creek reveal the contaminants dichloroethane, trichloroethane, carbon disulfide, and chlordane in fish tissue. Possible sources of these contaminants include the former Brio Refinery Company (an USEPA Superfund site) and rainfall run-off. Due to elevated fecal coliform densities, the contact recreation use is not supported.	M	More data is needed to determine the extent and source of contact recreation impairment
1103	Dickinson Bayou Tidal	N	Y	△		●	C	Due to elevated fecal coliform densities, the contact recreation is not supported. Depressed dissolved oxygen levels cause partial support of the high aquatic life.	M	Extensive local interest; TNRCC is preparing to do a TMDL for DO

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1104	Dickinson Bayou Above Tidal	N	Y	□		●	C	Due to elevated fecal coliform densities, the contact recreation use is not supported.	M	Extensive local interest; TNRCC is preparing to do a TMDL for DO, in conjunction with Segment 1103
1113	Armand Bayou Tidal	N	Y			●	C	Due to depressed dissolved oxygen levels in the upper portion of the segment the aquatic life use is not supported. Elevated fecal coliform densities cause nonsupport of the contact recreation use.	M	Probable subject of pending contract for a TMDL to address dissolved oxygen concerns
701	Taylor Bayou Above Tidal	N	Y				C	Due to depressed dissolved oxygen concentrations and elevated levels of fecal coliform bacteria, the intermediate aquatic life, and contact recreation uses are not met in the lower 25 miles of the segment. Sluggish flow, municipal and industrial discharges, as well as agricultural activities likely contribute to the problem.	L	Minor effect on uses; primarily due to natural conditions
902	Cedar Bayou Above Tidal	N					C	Due to depressed dissolved oxygen concentrations and elevated levels of fecal coliform bacteria, the high aquatic life and contact recreation uses are not met in the lower 18 miles of the segment.	L	Recent draft WLE addressed DO, remaining impairment primarily due to hydraulic conditions; fecal coliform has minor effect on use
1107	Chocolate Bayou Tidal	P					C	Due to elevated fecal coliform densities, the contact recreation use is partially supported.	L	Minor effect; limited data do not support initial assessment of impairment
1108	Chocolate Bayou Above Tidal	N	Y				C	Due to elevated fecal coliform densities, the contact recreation use is not supported. The average sulfate level exceeds the segment criterion.	L	Minor effect on uses
1110	Oyster Creek Above Tidal	N	Y				C	Due to depressed dissolved oxygen and elevated fecal coliform densities southwest of the City of Angleton in Brazoria County, part of the segment is not supporting aquatic life and contact recreation uses.	L	Minor effects on uses; low DO is due to hydraulic modifications or natural conditions
2412	Sabine Lake	N	Y		☒		C	Due to elevated fecal coliform densities, the oyster waters use is not supported. Time, extent, and area of actual shellfish closures are based on criteria administered by the Texas Department of Health.	L	Minor effect on uses; limited data set does not support initial assessment of impairment
2426	Tabbs Bay	N	Y	□			C	Tabbs Bay has a restricted consumption advisory for the general population, and a no consumption advisory for children and women of child bearing age. These advisories were issued by the Texas Department of Health for blue crabs and catfish due to elevated levels of dioxin in tissue. Elevated fecal coliform levels cause nonsupport of the contact recreation use. Other water quality standards and designated uses were supported.	L	Minor effect on uses

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901	Cedar Bayou Tidal	N					C	Due to elevated levels of fecal coliform bacteria, the contact recreation use is not supported in the lower ten miles of the segment.	T	Minor effect on uses, limited data set does not support initial assessment of impairment
1001	San Jacinto River Tidal	P	Y	△			C	Fecal coliform levels were moderately elevated causing partial support of the contact recreation use in the segment. Elevated dissolved silver concentrations exceeded the acute criterion causing partial support of the high aquatic life use.	T	Control program for silver is in place; fecal coliform has minor effect on uses, and limited data set does not support initial assessment of impairment
1003	East Fork San Jacinto River	P	Y				C	Fecal coliform levels were moderately elevated causing partial support of the contact recreation use in the lower 20 miles of the segment. All other standards and uses are supported. The lower twenty miles of the segment are impacted by urban stormwater runoff.	T	Minor effect on uses
1004	West Fork San Jacinto River	P	Y				C	Fecal coliform levels are moderately elevated causing partial support of the contact recreation use for the entire segment.	T	Minor effect on uses
1105	Bastrop Bayou Tidal	N					C	Due to elevated fecal coliform densities, the contact recreation use is not supported.	T	Limited geographic extent
1109	Oyster Creek Tidal	N	Y				C	Due to elevated fecal coliform densities, the contact recreation use is not supported.	T	Minor effect; limited data do not support initial assessment of impairment
1245	Upper Oyster Creek	N	Y	△			D	Depressed dissolved oxygen levels cause nonsupport of the intermediate aquatic life use in the area from the Texas Department of Corrections Jester Unit downstream to the confluence of Stafford Run. Elevated levels of fecal coliform bacteria allow only partial support of the contact recreation use in the area from The Texas Department of Corrections Jester Unit downstream to the end of the segment. Dissolved oxygen levels have been historically depressed in the segment due to a complex series of diversion dams, thermal loading, oxygen demanding wastes, high sediment oxygen demand, low reaeration rates, and nearly stagnant velocities. One of the major factors contributing to the low dissolved oxygen levels appears to be point source discharges which cause increases in ambient water temperature and oxygen demanding wastes. In addition to point source loadings, Upper Oyster Creek is also on the statewide list for nonpoint source impacted waters due to urban stormwater runoff. A draft wasteload evaluation, based on intensive survey data, indicates that dissolved oxygen criteria supportive of the intermediate use should be attainable at the recommended effluent limits (advanced treatment with nitrification).	M	Some controls on point source discharges have been implemented, but monitoring is needed to determine if more are needed or appropriate

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1301	San Bernard River Tidal	N	Y				D	The segment is partially supporting the high quality aquatic life use due to depressed dissolved oxygen levels, and is not supporting the contact recreation use due to elevated levels of fecal coliform bacteria.	M	More data needed; DO conditions may be natural
2425	Clear Lake	N	Y	△			D	The upper part of the segment has high fecal coliform densities, and does not support the contact recreation use. The lower portion has moderately elevated fecal coliform levels, and partially supports the contact recreation use.	M	Moderate impairment of contact recreation use; need to continue investigation to determine extent and source
1304	Caney Creek Tidal	N	Y				D	Elevated fecal coliform bacteria levels cause nonsupport of the contact recreation use.	L	Minor effect on use; possibly natural
2421	Upper Galveston Bay	N					D	This segment, from Red Bluff Point to Five Mile Cut Marker to Houston Point, north to Morgan's Point has a restricted consumption advisory for the general population, and a no consumption advisory for children and women of child bearing age. These advisories were issued by the Texas Department of Health for blue crabs and catfish due to elevated levels of dioxin in tissue. Twenty-two square miles of Upper Galveston Bay has been affected. The dioxin source is listed as a paper mill. Based on the TNRCC criterion, the oyster water use was partially supported due to moderately elevated fecal coliform levels throughout the bay. Time, extent and area of actual shellfish closures are based on criteria administered by the Texas Department of Health. Other water quality standards and designated uses were supported.	L	Continue to monitor dioxin; fecal coliform has minor effect on uses and impairment is geographically limited
2424	West Bay	P	Y	△			D	Based on the TNRCC criterion, the oyster water use was partially supported due to moderately elevated fecal coliform levels throughout the bay. Time, extent and area of actual shellfish closures are based on criteria administered by the Texas Department of Health. Other water quality standards and designated uses were supported.	L	Minor effect on uses, and geographically limited
2432	Chocolate Bay	P					D	Based on the TNRCC criterion, the oyster water use is partially supported due to moderately elevated fecal coliform levels throughout the bay. Time, extent and area of actual shellfish closures are based on criteria administered by the Texas Department of Health. All other water quality standards and uses are supported.	L	Minor effect on uses; limited data set does not support initial assessment of impairment
2433	Bastrop Bay/Oyster Lake	P					D	Based on the TNRCC criterion, the oyster water use is partially supported due to moderately elevated fecal coliform levels throughout the bay. Time, extent and area of actual shellfish closures are based on criteria administered by the Texas Department of Health. All other water quality standards and uses are supported.	L	Minor effect on uses
2435	Drum Bay	P					D	Based on the TNRCC criterion, the oyster water use is partially supported due to moderately elevated fecal coliform levels throughout the bay. Time, extent and area of actual shellfish closures are based on criteria administered by the Texas Department of Health. All other water quality standards and uses were supported.	L	Minor effect on uses

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2439	Lower Galveston Bay	P	Y	△			D	Based on the TNRC criterion, the oyster water use is partially supported due to moderately elevated fecal coliform levels throughout the bay. Time, extent and area of actual shellfish closures are based on criteria administered by the Texas Department of Health. All other water quality standards and uses are supported.	L	Impairment is episodic, geographically limited, and has minor effect on uses
1201	Brazos River Tidal	N	Y				D	A restricted consumption advisory for the general population and a no consumption advisory for children and women of child bearing age were issued by the Texas Department of Health September 1990 due to elevated dioxin levels in fish tissue. The affected reach is south of FM 521 to the mouth of the Brazos River in Brazoria County. Elevated fecal coliform bacteria levels cause partial support of the contact recreation use in the lower most seven miles of the segment.	T	Control program for dioxin already in place; fecal coliform has very minor effect on uses
1202	Brazos River Below Navasota River	N	Y				D	Elevated fecal coliform densities cause nonsupport of the contact recreation use in the segment.	T	Minor effect on uses; contact recreation use is minimal
1602	Lavaca River Above Tidal	N	Y				D	This segment is not supporting its contact recreation use due to elevated levels of fecal coliform bacteria measured throughout the segment. The Texas Railroad Commission has identified oil field wastes as a problem in the segment (Summary Report: Regional Assessments of Water Quality Pursuant to the Texas Clean Rivers Act, Senate Bill 818, TNRC 1992).	T	Fecal coliform has minor effect on use, may be natural
2427	San Jacinto Bay	N	Y	△			D	San Jacinto Bay has a restricted consumption advisory for the general population, and a no consumption advisory for children and women of child bearing age. These advisories were issued by the Texas Department of Health for blue crabs and catfish due to elevated levels of dioxin in tissue. Fecal coliform levels are moderately elevated causing the contact recreation use to be partially supported. Other water quality standards and designated uses were supported.	T	Minor effect on uses
1502	Tres Palacios Creek Above Tidal	N	Y				E	Elevated fecal coliform levels contribute to nonsupport of the contact recreation use in the segment. The segment criterion for dissolved oxygen was not met causing nonsupport of the high aquatic life use.	M	Needs more investigation to determine extent and sources of impairments
2106	Nueces/Lower Frio River	N	Y				E	Elevated fecal coliform levels cause nonsupport of the contact recreation use.	M	Need more data to determine extent and source of impairment
2107	Atascosa River	N	Y	△			E	Elevated fecal coliform levels cause nonsupport of the contact recreation use in this reach. Dissolved oxygen levels are below the criterion for high quality aquatic life. Field observations suggest that low DO is not associated with discharges, but occurs as pools stagnate during intermittent flow conditions.	M	Need more data to determine extent and sources of impairments

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2201	Arroyo Colorado Tidal	N	Y				E	The aquatic life use is not supported in the upper 8.5 miles due to depressed dissolved oxygen concentrations. Comments received from the Texas Parks and Wildlife Department suggest that depressed dissolved oxygen impairs aquatic life in the upper 16 miles of the segment, and point out that the segment provides important habitat for many economically, ecologically, and recreationally valuable species. TNRCC and other State agencies are beginning cooperative studies of better management practices to reduce or control both point and nonpoint sources, under the Federal Section 319 program.	M	Point source control program for DO is in place, need to monitor system response; as results of the cooperative management practice studies become available, relevant programs will be adjusted.
2202	Arroyo Colorado Above Tidal	N	Y				E	The Texas Department of Health (TDH) issued an all fish restricted consumption advisory for the general population in September 1980, due to elevated levels of chlordane, toxaphene, and DDE in fish tissue. The advisory, which applies to the entire segment, recommends that consumption be limited to one meal per month for any type of fish. TDH issued an aquatic life closure for Donna Reservoir, an unclassified, 333 acre lake which stores water pumped from the Rio Grande, in February 1994, due to elevated levels of PCBs in fish tissue. The closure applies to the entire reservoir and the canal system that connects it to the Rio Grande. The aquatic life use is only partially supported in the lower four miles due to elevated concentrations of nitrobenzene, isophorone, and bis(2-ethylhexyl) phthalate in water. The contact recreation use is not supported through the entire segment due to elevated fecal coliform bacteria levels. TNRCC and other State agencies are beginning cooperative studies of better management practices to reduce or control both point and nonpoint sources, under the Federal Section 319 program.	M	Need to monitor all toxic substances of concern to assess trends; need more fecal coliform data to determine extent and source of impairment; as results of the cooperative management practice studies become available, relevant programs will be adjusted.
2453	Lavaca Bay/Chocolate Bay	N	Y				E	The Texas Department of Health has issued an aquatic life closure for 2.5 square miles of the segment due to elevated mercury levels in finfish and crabs. Mercury contamination is residual from historical sources. Due to elevated fecal coliform densities, the oyster waters use is not supported in Chocolate Bay and the Eastern portion of upper Lavaca Bay near the mouth of the Lavaca River. Throughout most of the remainder of Lavaca Bay, the oyster waters use is partially supported due to elevated fecal coliform densities. Time, extent, and area of actual shellfish closures are based on criteria administered by the Texas Department of Health. Low dissolved oxygen levels in the Red Bluff Channel contribute to partial support of the exceptional aquatic life use.	M	An extensive monitoring program is in effect and will continue; Partial support designation for dissolved oxygen was based on the water column mean being slightly below the criterion on August 10, 1993, which is only 1 of 7 sampling events screened, and is not considered truly indicative of a problem.

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2454	Cox Bay	N					E	The Texas Department of Health has issued an aquatic life closure for 1.7 square miles of the segment due to elevated mercury levels in fish and crabs. Due to elevated fecal coliform densities, the oyster waters use is partially supported in the bay. Time, extent, and area of actual shellfish closures are based on criteria administered by the Texas Department of Health.	M	An extensive monitoring program is in effect and will continue
2484	Corpus Christi Inner Harbor	N					E	The aquatic life use is not supported, as the mean dissolved copper concentration exceeds the chronic criterion. Depressed dissolved oxygen levels in the Avery and Viola Turning Basins cause partial support of the intermediate aquatic life use.	M	Need more data for copper; low DO does not significantly impair uses, and is largely due to hydraulic conditions
2485	Oso Bay	N	Y		Q		E	Depressed dissolved oxygen levels in the lower portion of the bay contribute to partial support of the exceptional aquatic life use. Due to elevated fecal coliform densities, the oyster waters use is not supported and the contact recreation use is partially supported. Time, extent, and area of actual shellfish closures are based on criteria administered by the Texas Department of Health.	M	Need more data to determine extent and causes of impairment; studies and analyses are underway or pending
1501	Tres Palacios Creek Tidal	N	Y				E	Elevated fecal coliform levels contribute to nonsupport of the contact recreation use in the segment. The segment criterion for dissolved oxygen was not met causing nonsupport of the exceptional aquatic life use.	L	Minor effect from low DO, probably due to natural conditions; limited fecal coliform data set does not support initial assessment of impairment
2004	Aransas River Above Tidal	N					E	Elevated fecal coliform levels cause nonsupport of the contact recreation use for the lower 25 miles of the segment. The average level of total dissolved solids levels is elevated above the standard criterion in the lower part of the segment.	L	Minor effect on uses; possibly natural due to tidal salt-wedge intrusion
2451	Matagorda Bay/Powderhorn Lake	N	Y		Q		E	Due to elevated fecal coliform densities, the oyster waters use is not supported at two sites on the east side of Matagorda Bay. Elevated fecal coliform densities also contribute to partial support of the oyster waters use in Powderhorn Lake and approximately 40 percent of Matagorda Bay. Time, extent, and area of actual shellfish closures are based on criteria administered by the Texas Department of Health.	L	Minor effect on uses, and geographically limited
2473	St. Charles Bay	P	Y				E	Due to elevated fecal coliform densities, the oyster waters use is partially supported in the bay. Time, extent, and area of actual shellfish closures are based on criteria administered by the Texas Department of Health.	L	Minor effect on uses
2482	Nueces Bay	N	Y		Q		E	Due to elevated fecal coliform densities, the oyster waters use is not supported in an isolated area near White's Point and is only partially supported throughout most of the rest of the bay.	L	Minor effect on uses

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1401	Colorado River Tidal	P	Y				E	This segment is partially supporting the contact recreation use due to elevated fecal coliform bacteria levels.	T	Minor effect; limited data set does not support initial assessment of impairment
1402	Colorado River Below La Grange	P	Y				E	This segment is partially supporting contact recreation use due to elevated fecal coliform bacteria levels.	T	Minor effect; limited data set does not support initial assessment of impairment
1803	Guadalupe River Below San Marcos River	P					E	Due to elevated levels of fecal coliform bacteria, the contact recreation use is partially supported in a five mile stretch of the segment around the U.S. Highway 59 bridge in Victoria County.	T	Very minor effect on uses
2002	Mission River Above Tidal	N	Y	Q			E	Elevated levels of fecal coliform cause nonsupport of the contact recreation use in this segment.	T	Minor effect on use; possibly natural
2102	Nueces River Below Lk Corpus Christi	P	Y				E	Elevated fecal coliform levels cause partial support of the contact recreation use.	T	Minor effect; limited data set does not support initial assessment of impairment
2104	Nueces River Above Frio River	P					E	Elevated fecal coliform levels cause partial support of the contact recreation use in the lower reaches of the segment.	T	Minor effect; limited data set does not support initial assessment of impairment
2301	Rio Grande Tidal	P	Y	Q			E	Fecal coliform levels are moderately elevated causing partial support of the contact recreation use. All other water quality standards and uses are supported.	T	Minor effect; limited data set does not support initial assessment of impairment
2302	Rio Grande Below Falcon Reservoir	N	Y	Q			E	Elevated fecal coliform levels cause nonsupport of the contact recreation use in the segment. All other uses and water quality standards are supported. This segment was included in the multi phase Binational Rio Grande Toxic Substance Study (see Published Studies).	T	Minor effect on uses
2455	Keller Bay	P					E	Due to elevated fecal coliform densities, the oyster waters use is partially supported throughout most of the bay. Time, extent, and area of actual shellfish closures are based on criteria administered by the Texas Department of Health.	T	Very minor effect on uses
2456	Carancahua Bay	N	Y	Q			E	Due to elevated fecal coliform densities, the oyster waters use is not supported in the extreme upper portion of the bay and is only partially supported in the upper one third of the bay. Time, extent, and area of actual shellfish closures are based on criteria administered by the Texas Department of Health.	T	Minor effect on uses; limited geographic extent
2462	San Antonio Bay/Hynes Bay/Guadalupe Bay	N	X	Q			E	Due to elevated fecal coliform densities, the oyster waters use in the extreme upper portion of San Antonio Bay is not supported and is only partially supported in the upper third of the bay. Time, extent, and area of actual shellfish closures are based on criteria administered by the Texas Department of Health.	T	Minor effect on uses, geographically limited extent