Presented below are water quality standards that are in effect for Clean Water Act purposes.

EPA is posting these standards as a convenience to users and has made a reasonable effort to assure their accuracy. Additionally, EPA has made a reasonable effort to identify parts of the standards that are not approved, disapproved, or are otherwise not in effect for Clean Water Act purposes.

EPA has not approved the definition of "surface water in the state" in the TX WQS, which includes an area out 10.36 miles into the Gulf of Mexico by reference to §26.001 of the Texas Water Code. Under the CWA, Texas does not have jurisdiction to establish water quality standards more than three nautical miles from the coast, but does not extend past that point. Beyond three miles, EPA retains authority for CWA purposes. EPA's approval also does not include the application the TX WQS for the portions of the Red River and Lake Texoma that are located within the state of Oklahoma. Finally, EPA is not approving the TX WQS for those waters or portions of waters located in Indian Country, as defined in 18 U.S.C. 1151.

The following sections in the 2018 Texas WQS have been approved by EPA and are therefore effective for CWA purposes:

- §307.1. General Policy Statement
- §307.2. Description of Standards
- §307.3. Definitions and Abbreviations (see "No Action" section)
- §307.4. General Criteria
- §307.5. Antidegradation
- §307.7. Site-specific Uses and Criteria (see "No Action" section)
- §307.8. Application of Standards (see "No Action" section)
- Appendix B Sole-source Surface Drinking Water Supplies
- Appendix E Site-specific Toxic Criteria

The following sections in the 2018 Texas WQS have been approved by EPA, except for specific items as noted:

§307.6. Toxic Materials

- EPA is reviewing the new freshwater acute and chronic criteria for acrolein in Table 1. EPA is also
 reviewing the new freshwater chronic criterion and the revised saltwater acute criterion for
 carbaryl.
- See "No Action" section.

§307.9. Determination of Standards Attainment

- EPA is reviewing the proposed revisions in §307.9(c)(2), §307.9(e)(1) and §307.9(e)(7).
- See "No Action" section.

Appendix A - Site-specific Uses and Criteria for Classified Segments.

- EPA is reviewing the following revisions:
 - Revised aquatic life uses and/or dissolved oxygen criteria in segments 0305, 0607, 2311, and 2490.
 - New or revised minerals criteria (with footnotes) for the following segments: 0211, 0307, 0410, 0507, 0803, 0812, 0821, 1206, 1214, 1227, 1238, 1240, 1241, 1248, 1411, 1412, 1413, 1421, 1426, 1433, 2103, 2106, 2107, 2116, 2118, 2306 and 2315.
 - Revised recreation use for segment 0404 Big Cypress Creek below Lake Bob Sandlin.
 - Revised pH criteria in segments 0302 Wright Patman Lake, 0605 Lake Palestine, and 0818 Cedar Creek Reservoir.
 - Revised temperature criteria (and associated footnotes) for segment 1811 Comal River and segment and 1814 – San Marcos River.
- See "Disapproved" and "No Action" sections below.

• Appendix C - Segment Descriptions

- EPA is reviewing the proposed descriptions for the following segments: 0607 Pine Island Bayou, 1006 Houston Ship Channel Tidal, 2306 Rio Grande Above Amistad Reservoir, 2315 Rio Grande Below Rio Conchos, 2490 Upper Laguna Madre and 2491- Lower Laguna Madre.
- See "No Action" section below.

Appendix D - Site-specific Receiving Water Assessments

- EPA is reviewing the proposed uses and dissolved oxygen criteria for the following segments: Boggy Creek (segment 0607), Pine Island Bayou (segment 0607), Willow Creek (segment 0607), Cypress Creek (segment 0608), Thompsons Creek (segment 1242), and Slaughter Creek (three reaches in segment 1427).
- Appendix F Site-specific Nutrient Criteria for Selected Reservoirs (see "No Action" section)
 - EPA is reviewing the revised language in Appendix F.
 - See "No Action" section below.

Appendix G - Site-specific Recreational Uses and Criteria for Unclassified Water Bodies

 EPA is reviewing the proposed recreational uses in Mud Creek, Bois d' Arc Creek, Choctaw Creek, SmithCreek, Iron Ore Creek, Tankersley Creek, Hart Creek, Grace Creek, South Fork of Sabine River, Running Creek, Elm Creek, Prairie Creek, Mud Creek, Paper Mill Creek, Walnut Creek, Wickson Creek, Cedar Creek, Gibbons Creek, Steele Creek, Resley Creek, South Leon River, Indian Creek, Thompsons Creek, Mud Creek, Pin Oak Creek, Spring Creek, Walnut Creek, Big Creek, and Wasp Creek.

EPA disapproved the following provisions in the 2010 Texas WQS:

- Appendix A Site-specific Uses and Criteria for Classified Segments
 - Segment 0305 North Sulphur River: Footnote 2 in Appendix A which states that the benthic
 macroinvertebrate community should be assessed as a limited aquatic life use was disapproved. The
 revised intermediate aquatic life use for the North Sulphur River in the table of Appendix A was
 approved for both the fish and benthic macroinvertebrate communities. EPA is reviewing the
 proposedlimited aquatic life use for the benthic macroinvertebrate community for segment 0305,
 which was retained in the 2014 Texas WQS.
 - Segment 2491–Laguna Madre: EPA disapproved the site-specific dissolved oxygen criteria of 4.5 mg/L(24-hour mean) and 2.0 mg/L (24-hour minimum) in the 2010 Texas WQS. The previously–approved criteria of 5.0 mg/L (24-hour mean) and 4.0 mg/L (24-hour minimum) will continue to apply until EPAcompletes review of the revised segment boundaries and dissolved oxygen criteria in the 2014 TexasWQS for segments 2490 Upper Laguna Madre and 2491 Lower Laguna Madre.

EPA takes "no action" on the following provisions in the 2018 Texas WQS (or in previous revisions):

- §307.3(a)(70). EPA takes no action on the revised definition of "surface water in the state" in which the phrase "from the mean high water mark (MHWM) out 10.36 miles into the Gulf" was replaced with a reference to the §26.001 of the Texas Water Code, but the intent was not changed. Under the CWA, Texas does not have jurisdiction to establish water quality standards more than three nautical miles from the coast. Therefore, EPA's approval actions enclosure recognizes the state's authority under the CWA to include waters extending offshore three nautical miles in the Gulf of Mexico but does not extend past that point.
- §307.6(e), EPA takes no action on revised paragraphs (2)(A), (2)(B), and (2)(D), as these are implementation provisions rather than water quality standards under CWA §303(c).
- §307.7(b)(3)(B)(iii): EPA takes no action on the language regarding sources of information to be used for for sources for fish and shellfish, as this activity is not regulated under the CWA.

- §307.8(c), (d) and (e): EPA takes no action, as the agency considers these subsections to be implementation provisions, rather than water quality standards under CWA §303(c).
- §307.9(a),(b),(c)(1),(d),(e)(2),(e)(5)and(e)(6): EPA takes no action, as the agency considers these subsections to be monitoring and assessment provisions rather than water quality standards under CWA.
 EPA also takes no action on specific language in the following paragraphs for the same reason: §307.9(c)(2) first and second sentences; §307.9(c)(3) third sentence; §307.9(e)(1) second and third sentences, §307.9(e)(3) second sentence, §307.9(e)(4) fourth and fifth sentences, and §307.9(f) third sentence.
- Appendix A Site-specific Uses and Criteria for Classified Segments and Appendix C Segment
 Descriptions: EPA takes no action on revisions adopted in the 2018 Texas WQS for segment 1902 Lower
 Cibolo Creek, segment 1908 Upper Cibolo Creek and segment 1913 Middle Cibolo Creek. The TCEQ has
 withdrawn its request for approval of these revisions and stated that it will review additional data for this
 water body, for consideration in future triennial revisions.
- Appendix F— Site-specific Nutrient Criteria for Selected Reservoirs: EPA considers the first, fourth and fifth sentences in the first paragraph and footnote 1 to be monitoring and assessment provisions, rather than water quality standards under CWA §303(c).

Statutory Authority

The amendments are adopted under Texas Water Code (TWC), §5.102, which establishes the commission's general authority necessary to carry out its jurisdiction; TWC, §5.103, which establishes the commission's general authority to adopt rules; TWC, §5.105, which establishes the commission's authority to set policy by rule; TWC, §5.120, which requires the commission to administer the law so as to promote the conservation and protection of the quality of the state's environment and natural resources; TWC, §26.011, which authorizes the commission to establish the level of quality to be maintained in and control the quality of water in the state; TWC, §26.0135, which authorizes the commission to monitor and assess the water quality of each watershed and river basin in the state; TWC, §26.023, which authorizes the commission to set water quality standards for water in the state by rule; TWC, §26.027, which authorizes the commission to issue permits; TWC, §26.121, which provides the commission's authority to prohibit unauthorized discharges; and 33 United States Code, §1313, which requires states to adopt water quality standards and review them at least once every three years.

The amendments implement TWC, §26.023.

§307.1. General Policy Statement.

It is the policy of this state and the purpose of this chapter to maintain the quality of water in the state consistent with public health and enjoyment, propagation and protection of terrestrial and aquatic life, operation of existing industries, and taking into consideration economic development of the state; to encourage and promote development and use of regional and area-wide wastewater collection, treatment, and disposal systems to serve the wastewater disposal needs of the citizens of the state; and to require the use of all reasonable methods to implement this policy.

§307.2. Description of Standards.

- (a) Contents of the Texas Surface Water Quality Standards.
- (1) Section 307.1 of this title (relating to General Policy Statement) contains the general standards policy of the commission.
- (2) This section lists the major sections of the standards, defines basin classification categories, describes justifications for standards modifications, and provides the effective dates of the rules.
- (3) Section 307.3 of this title (relating to Definitions and Abbreviations) defines terms and abbreviations used in the standards.
- (4) Section 307.4 of this title (relating to General Criteria) lists the general criteria that are applicable to all surface waters of the state unless specifically excepted in

§307.8 of this title (relating to Application of Standards) or §307.9 of this title (relating to Determination of Standards Attainment).

- (5) Section 307.5 of this title (relating to Antidegradation) describes the antidegradation policy and implementation procedures.
- (6) Section 307.6 of this title (relating to Toxic Materials) establishes criteria and control procedures for specific toxic substances and total toxicity.
- (7) Section 307.7 of this title (relating to Site-Specific Uses and Criteria) defines appropriate water uses and supporting criteria for site-specific standards.
- (8) Section 307.8 of this title sets forth conditions when portions of the standards do not apply such as in mixing zones or below critical low-flows.
- (9) Section 307.9 of this title describes sampling and analytical procedures to determine standards attainment.
- (10) Section 307.10 of this title (relating to Appendices A G) lists site-specific standards and supporting information for classified segments (Appendices A and C), water bodies that are sole-source surface drinking water supplies (Appendix B), site-specific uses and criteria for unclassified water bodies (Appendix D), site-specific toxic criteria that may be derived for any water in the state (Appendix E), chlorophyll *a* criteria for selected reservoirs (Appendix F), and site-specific recreational uses and criteria for unclassified water bodies (Appendix G). Specific appendices are as follows:
- (A) Appendix A Site-specific Uses and Criteria for Classified Segments;
 - (B) Appendix B Sole-source Surface Drinking Water Supplies;
 - (C) Appendix C Segment Descriptions;
 - (D) Appendix D Site-specific Uses and Criteria for Unclassified Water

Bodies:

and

- (E) Appendix E Site-specific Toxic Criteria;
- (F) Appendix F Site-specific Nutrient Criteria for Selected Reservoirs;
- (G) Appendix G Site-specific Recreational Uses and Criteria for Unclassified Water Bodies.
- (b) Applicability. The Texas Surface Water Quality Standards apply to surface waters in the state including wetlands.

- (c) Classification of surface waters. The major surface waters of the state are classified as segments for purposes of water quality management and designation of site-specific standards. Classified segments are aggregated by basin, and basins are categorized as follows:
- (1) River basin waters. Surface inland waters comprising the major rivers and their tributaries, including listed impounded waters and the tidal portion of rivers to the extent that they are confined in channels.
- (2) Coastal basin waters. Surface inland waters, including listed impounded waters but exclusive of paragraph (1) of this subsection, discharging, flowing, or otherwise communicating with bays or the gulf, including the tidal portion of streams to the extent that they are confined in channels.
- (3) Bay waters. All tidal waters, exclusive of those included in river basin waters, coastal basin waters, and gulf waters.
- (4) Gulf waters. Waters that are not included in or do not form a part of any bay or estuary but that are a part of the open waters of the Gulf of Mexico to the limit of the state's jurisdiction.
 - (d) Modification of standards.
- (1) The commission reserves the right to amend these standards following the completion of special studies.
- (2) Any errors in water quality standards resulting from clerical errors or errors in data may be corrected by the commission through amendment of the affected standards. Water quality standards not affected by such clerical errors or errors in data remain valid until changed by the commission.
- (3) The narrative provisions, presumed uses, designated uses, and numerical criteria of the Texas Surface Water Quality Standards may be amended for a specific water body to account for local conditions. A site-specific standard is an explicit amendment to this chapter, and adoption of a site-specific standard requires the procedures for public notice and hearing established under the Texas Water Code, §26.024 and §26.025. An amendment that establishes a site-specific standard requires a use-attainability analysis that demonstrates that reasonably attainable water-quality related uses are protected. Upon adoption, site-specific amendments to the standards will be listed in §307.10 of this title.
- (4) Factors that may justify the development of site-specific standards are described in §307.4 and §§307.6 307.8 of this title.

- (5) Temporary variance. When scientific information indicates that a site-specific standards amendment is justified, the commission may allow a corresponding temporary variance to the water quality standards in a permit for a discharge of wastewater or stormwater.
- (A) A temporary variance is only applicable to an existing permitted discharge.
- (B) A permittee may apply for a temporary variance prior to or during the permit application process. The temporary variance request must be included in a public notice during the permit application process. An opportunity for public comment is provided, and the request may be considered in any public hearing on the permit application.
- (C) A temporary variance for a Texas Pollutant Discharge Elimination System permit also requires review and approval by the United States Environmental Protection Agency (EPA) during the permitting process.
- (D) The permit must contain effluent limitations that protect existing uses and preclude degradation of existing water quality, and the term of the permit must not exceed three years. Effluent limitations that are needed to meet the existing standards are listed in the permit and are effective immediately as final permit effluent limitations in the succeeding permit, unless the permittee fulfills the requirements of the conditions for the variance in the permit.
- (E) When the permittee has complied with the terms of the conditions in the temporary variance, then the succeeding permit may include a permit schedule to meet standards in accordance with subsection (f) of this section. The succeeding permit may also extend the temporary variance in accordance with subsection (f) of this section in order to allow additional time for a site-specific standard to be adopted in this chapter. This extension can be approved by the commission only after a site-specific study that supports a standards change is completed and the commission agrees the completed study supports a change in the applicable standard(s).
- (F) Site-specific standards that are developed under a temporary variance must be expeditiously proposed and publicly considered for adoption at the earliest opportunity.
- (e) Standards implementation procedures. Provisions for implementing the water quality standards are described in a document entitled *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194) as amended and approved by the Texas Commission on Environmental Quality and EPA.
- (f) Permit schedules to meet standards. Upon permit amendment or permit renewal, the commission may establish interim effluent limitations to allow a permittee time to modify effluent quality in order to attain final effluent limitations. The duration

of any interim effluent limitations may not be longer than three years from the effective date of the permit issuance, except in accordance with a temporary variance as described in subsection (d)(5) of this section.

- (g) Temporary standards. Where a criterion or designated use is not attained and cannot be attained for one or more of the reasons listed in 40 Code of Federal Regulations (CFR) §131.10(g), or to facilitate restoration or reconfiguration activities that preclude the attainment of the designated use or criterion, then a temporary standard for specific water bodies or permittees may be adopted in §307.10 of this title as an alternative to changing uses.
- (1) A temporary standard identifies the interim numerical criteria or use that applies during the existence of the temporary standard.
- (2) A temporary standard must be adopted in accordance with the provisions of subsection (d)(3) of this section. Once adopted, a temporary standard is the applicable standard for the purposes of developing wastewater discharge permit limits and issuing certifications specified in the federal Clean Water Act, §401 and Chapter 279 of this title (relating to Water Quality Certification).
- (3) Specific reasons and additional procedures for justifying a temporary standard are provided in the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194). A temporary standard must identify the water body or permittee to which the temporary standard applies. A temporary standard does not exempt any discharge from compliance with applicable technology-based effluent limits.
- (4) A temporary standard must be reevaluated every five years at a minimum, which may be conducted through the permit process or a triennial review of the Texas Surface Water Quality Standards.
- (5) The term of a temporary standard is expressed as an interval of time from the date of EPA approval or a specific date cited in the temporary standard. If the continuance of a temporary standard is sufficiently justified, it can be renewed during revisions of the Texas Surface Water Quality Standards. When a temporary standard expires, subsequent discharge permits are issued to meet the applicable existing water quality standards.
- (6) A temporary standard cannot be established that would impair an existing use.
- (h) Effective date of standards. Except as provided in 40 CFR §131.21 (EPA review and approval of water quality standards), this chapter becomes effective 20 days after the date the chapter is filed in the Office of the Secretary of State. As to actions covered by 40 CFR §131.21, the rules become effective upon approval by EPA.
 - (i) Effect of conflict or invalidity of rule.

- (1) If any provision of this chapter or its application to any person or circumstances is held invalid, the invalidity does not affect other provisions or applications of the provisions contained in this chapter that can be given effect without the invalid provision or application, and to this end the provisions of this chapter are severable.
- (2) To the extent of any irreconcilable conflict between provisions of this chapter and other rules of the commission, the provisions of this chapter supersede.

§307.3. Definitions and Abbreviations.

- (a) Definitions. The following words and terms, when used in this chapter, have the defined meanings, unless the context clearly indicates otherwise.
- (1) Acute toxicity--Toxicity that exerts a stimulus severe enough to rapidly induce an effect. The duration of exposure applicable to acute toxicity is typically 96 hours or less. Tests of total toxicity normally use lethality as the measure of acute impacts. (Direct thermal impacts are excluded from definitions of toxicity.)
 - (2) Ambient--Refers to the existing water quality in a particular water body.
- (3) Aquatic vegetation--Refers to aquatic organisms, i.e., plant life, found in the water and includes phytoplankton; algae, both attached and floating; and vascular and nonvascular plants, both rooted and floating.
- (4) Attainable use--A use that can be reasonably achieved by a water body in accordance with its physical, biological, and chemical characteristics whether it is currently meeting that use or not. Guidelines for the determination and review of attainable uses are provided in the standards implementation procedures. The designated use, existing use, or presumed use of a water body may not necessarily be the attainable use.
- (5) Background--Refers to the water quality in a particular water body that would occur if that water body were relatively unaffected by human activities.
- (6) Bedslope--Stream gradient, or the extent of the drop in elevation encountered as the stream flows downhill. One measure of bedslope is the elevation decline in meters over the stream distance in kilometers.
- (7) Best management practices--Schedules of activities, maintenance procedures, and other management practices to prevent or reduce the pollution of water in the state from point and nonpoint sources, to the maximum extent practicable. Best management practices also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

- (8) Bioaccumulative--Describes a chemical that is taken up by aquatic organisms from water directly or through the consumption of food containing the chemical.
- (9) Bioconcentration factor--A unitless value describing the degree to which a chemical can be concentrated in the tissues of an organism in the aquatic environment and that is absorbed directly from the water. The bioconcentration factor is the ratio of a chemical's concentration in the tissue of an organism compared to that chemical's average concentration in the surrounding water.
- (10) Biological integrity--The species composition, diversity, and functional organization of a community of organisms in an environment relatively unaffected by pollution.
- (11) Biotic ligand model--A metal bioavailability model that uses receiving water body characteristics to develop site-specific water quality criteria.
- (12) Chronic toxicity--Toxicity that continues for a long-term period after exposure to toxic substances. Chronic exposure produces sub-lethal effects, such as growth impairment and reduced reproductive success, but it may also produce lethality. The duration of exposure applicable to the most common chronic toxicity test is seven days or more.
- (13) Classified--Refers to a water body that is listed and described in Appendices A and C of §307.10 of this title (relating to Appendices A G). Site-specific uses and criteria for classified water bodies are listed in Appendix A of §307.10 of this title.
- (14) Coastal recreation waters--Marine coastal waters including oceans, coastal estuaries, and bays designated as primary contact recreation. Waters upstream of an unimpaired natural connection to the open sea or tidal inland waters are not considered coastal recreation waters (e.g., tidal rivers or streams).
 - (15) Commission--Texas Commission on Environmental Quality.
- (16) Criteria--Water quality conditions that are to be met in order to support and protect desired uses, i.e., existing, designated, attainable, and presumed uses.
- (17) Critical low-flow-Low-flow condition that consists of the seven-day, two-year low-flow or the alternative low-flows for spring-fed streams as discussed in §307.8(a)(2) of this title (relating to Application of Standards) and below which some standards do not apply.
- (18) Designated use--A use that is assigned to specific water bodies in Appendix A, D, or G of §307.10 of this title (relating to Appendices A G). Typical uses

that may be designated for specific water bodies include domestic water supply, categories of aquatic life use, recreation categories, and aquifer protection.

- (19) Discharge permit--A permit issued by the state or a federal agency to discharge treated effluent or cooling water into waters of the state.
- (20) Dry weather flows--Sustained or typical dry, warm-weather flows between rainfall events, excluding unusual antecedent conditions of drought or wet weather.
- (21) EC_{50} --The concentration of a toxicant that produces an adverse effect on 50% of the organisms tested in a specified time period.
- (22) *E. coli--Escherichia coli*, a subgroup of fecal coliform bacteria that is present in the intestinal tracts and feces of warm-blooded animals. It is used as an indicator of the potential presence of pathogens.
- (23) Effluent--Wastewater discharged from any point source prior to entering a water body.
- (24) Enterococci--A subgroup of fecal streptococci bacteria (mainly *Streptococcus faecalis* and *Streptococcus faecium* that is present in the intestinal tracts and feces of warm-blooded animals. It is used as an indicator of the potential presence of pathogens.
- (25) Epilimnion--The upper mixed layer of a lake (including impoundments, ponds, and reservoirs).
- (26) Existing use--A use that is currently being supported by a specific water body or that was attained on or after November 28, 1975.
- (27) Fecal coliform--A portion of the coliform bacteria group that is present in the intestinal tracts and feces of warm-blooded animals; heat tolerant bacteria from other sources can sometimes be included. It is used as an indicator of the potential presence of pathogens.
- (28) Freshwaters--Inland waters that exhibit no measurable elevation changes due to normal tides.
- (29) Halocline--A vertical gradient in salinity under conditions of density stratification that is usually recognized as the point where salinity exhibits the greatest difference in the vertical direction.
- (30) Harmonic mean flow--A measure of mean flow in a water course that is calculated by summing the reciprocals of the individual flow measurements, dividing this

sum by the number of measurements, and then calculating the reciprocal of the resulting number.

- (31) Incidental fishery--A level of fishery that applies to water bodies that are not considered to have a sustainable fishery but that have an aquatic life use of limited, intermediate, high, or exceptional.
- (32) Industrial cooling impoundment--An impoundment that is owned or operated by, or in conjunction with, the water rights permittee, and that is designed and constructed for the primary purpose of reducing the temperature and removing heat from an industrial effluent.
- (33) Industrial cooling water area--A designated area associated with a permitted wastewater discharge where numerical temperature criteria are not applicable in accordance with conditions and requirements specified in §307.4(f) of this title (relating to General Criteria) and §307.8(b) of this title (relating to Application of Standards).
- (34) Intermittent stream--A stream that has a period of zero flow for at least one week during most years. Where flow records are available, a stream with a seven-day, two-year low-flow of less than 0.1 cubic feet per second is considered intermittent.
- (35) Intermittent stream with perennial pools--An intermittent stream that maintains persistent pools even when flow in the stream is less than 0.1 cubic feet per second.
- (36) LC_{50} --The concentration of a toxicant that is lethal (fatal) to 50% of the organisms tested in a specified time period.
- (37) Main pool station--A monitoring station that is located in the main body of a reservoir near the dam and not located in a cove or in the riverine portion or transition zone of a reservoir.
- (38) Method detection limit--The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte. The method detection limit is estimated in accordance with 40 Code of Federal Regulations Part 136, Appendix B.
- (39) Minimum analytical level--The lowest concentration that a particular substance can be quantitatively measured with a defined accuracy and precision level using approved analytical methods. The minimum analytical level is not the published method detection limit for a United States Environmental Protection Agency-approved analytical method that is based on laboratory analysis of the substance in reagent (distilled) water. The minimum analytical level is based on analyses of the analyte in the matrix of concern (e.g., wastewater effluents). The commission establishes general

minimum analytical levels that are applicable when information on matrix-specific minimum analytical levels is unavailable.

- (40) Mixing zone--The area contiguous to a permitted discharge where mixing with receiving waters takes place and where specified criteria, as listed in §307.8(b)(1) of this title (relating to Application of Standards), can be exceeded. Acute toxicity to aquatic organisms is not allowed in a mixing zone, and chronic toxicity to aquatic organisms is not allowed beyond a mixing zone.
- (41) Noncontact recreation--Activities that do not involve a significant risk of water ingestion, such as those with limited body contact incidental to shoreline activity, including birding, hiking, and biking. Noncontact recreation use may also be assigned where primary and secondary contact recreation activities should not occur because of unsafe conditions, such as ship and barge traffic.
- (42) Nonpersistent--Describes a toxic substance that readily degrades in the aquatic environment, exhibits a half-life of less than 60 days, and does not have a tendency to accumulate in organisms.
- (43) Nutrient criteria--Numeric and narrative criteria that are established to protect surface waters from excessive growth of aquatic vegetation. Nutrient numeric criteria for reservoirs are expressed in terms of chlorophyll a concentration per unit volume as a measure of phytoplankton density.
- (44) Nutrient--A chemical constituent, most commonly a form of nitrogen or phosphorus, that in excess can contribute to the undesirable growth of aquatic vegetation and impact uses as defined in this title.
- (45) Oyster waters--Waters producing edible species of clams, oysters, or mussels.
- (46) Persistent--Describes a toxic substance that is not readily degraded and exhibits a half-life of 60 days or more in an aquatic environment.
- (47) Pollution--The alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any water in the state that renders the water harmful, detrimental, or injurious to humans, animal life, vegetation, or property or to the public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose.
- (48) Point source--Any discernible, confined and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, from which pollutants or wastes are or may be discharged into or adjacent to any water in the state.

- (49) Presumed use--A use that is assigned to generic categories of water bodies (such as perennial streams). Presumed uses are superseded by designated uses for individual water bodies in Appendix A, D, or G of §307.10 of this title (relating to Appendices A G).
- (50) Primary contact recreation 1--Activities that are presumed to involve a significant risk of ingestion of water (e.g., wading by children, swimming, water skiing, diving, tubing, surfing, handfishing as defined by Texas Parks and Wildlife Code, §66.115, and the following whitewater activities: kayaking, canoeing, and rafting).
- (51) Primary contact recreation 2--Water recreation activities, such as wading by children, swimming, water skiing, diving, tubing, surfing, handfishing as defined by Texas Parks and Wildlife Code, §66.115, and whitewater kayaking, canoeing, and rafting, that involve a significant risk of ingestion of water but that occur less frequently than for primary contact recreation 1 due to:
 - (A) physical characteristics of the water body; or
 - (B) limited public access.
- (52) Protection zone--Any area within the watershed of a sole-source surface drinking water supply that is:
- (A) within two miles of the normal pool elevation of a body of surface water that is a sole-source surface drinking water supply;
 - (B) within two miles of that part of a perennial stream that is:
 - (i) a tributary of a sole-source surface drinking water supply;

and

- (ii) within three linear miles upstream of the normal pool elevation of a sole-source surface drinking water supply; or
- (C) within two miles of that part of a stream that is a sole-source surface drinking water supply, extending three linear miles upstream from the water supply intake (Texas Water Code, §26.0286).
- (53) Public drinking water supply--A water body designated to provide water to a public water system as defined in Chapter 290 of this title (relating to Public Drinking Water).

- (54) Saltwater--A coastal water that has a measurable elevation change due to normal tides. In the absence of tidal information, saltwater is generally considered to be a coastal water that typically has a salinity of two parts per thousand or greater in a significant portion of the water column.
- (55) Salinity--The total dissolved solids in water after all carbonates have been converted to oxides, all bromide and iodide have been replaced by chloride, and all organic matter has been oxidized. For most purposes, salinity is considered equivalent to total dissolved salt content. Salinity is usually expressed in parts per thousand.
- (56) Seagrass propagation--A water-quality-related existing use that applies to saltwater with significant stands of submerged seagrass.
- (57) Secondary contact recreation 1--Activities that commonly occur but have limited body contact incidental to shoreline activity (e.g. fishing, canoeing, kayaking, rafting, and motor boating). These activities are presumed to pose a less significant risk of water ingestion than primary contact recreation 1 or 2 but more than secondary contact recreation 2.
- (58) Secondary contact recreation 2--Activities with limited body contact incidental to shoreline activity (e.g. fishing, canoeing, kayaking, rafting, and motor boating) that are presumed to pose a less significant risk of water ingestion than secondary contact recreation 1. These activities occur less frequently than secondary contact recreation 1 due to physical characteristics of the water body or limited public access.
- (59) Segment--A water body or portion of a water body that is individually defined and classified in Appendices A and C of §307.10 of this title (relating to Appendices A G) in the Texas Surface Water Quality Standards. A segment is intended to have relatively homogeneous chemical, physical, and hydrological characteristics. A segment provides a basic unit for assigning site-specific standards and for applying water quality management programs of the agency. Classified segments may include streams, rivers, bays, estuaries, wetlands, lakes, or reservoirs.
- (60) Settleable solids--The volume or weight of material that settles out of a water sample in a specified period of time.
- (61) Seven-day, two-year low-flow (7Q2)--The lowest average stream flow for seven consecutive days with a recurrence interval of two years, as statistically determined from historical data. As specified in §307.8 of this title, some water quality standards do not apply at stream flows that are less than the 7Q2 flow.
 - (62) Shellfish--Clams, oysters, mussels, crabs, crayfish, lobsters, and shrimp.

- (63) Sole-source surface drinking water supply--A body of surface water that is identified as a public water supply in rules adopted by the commission under Texas Water Code, §26.023 and is the sole source of supply of a public water supply system, exclusive of emergency water connections (Texas Water Code, §26.0286).
- (64) Standard Methods for the Examination of Water and Wastewater--A document describing sampling and analytical procedures that is published by the American Public Health Association, American Water Works Association, and Water Environment Federation. The most recent edition of this document is to be followed whenever its use is specified by this chapter.
- (65) Standards--Desirable uses (i.e., existing, attainable, designated, or presumed uses as defined in this section) and the narrative and numerical criteria deemed necessary to protect those uses in surface waters.
- (66) Standards implementation procedures--Methods and protocols in the guidance document *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194), as amended and approved by the commission and EPA.
- (67) Stormwater--Rainfall runoff, snow melt runoff, surface runoff, and drainage.
- (68) Stormwater discharge--A point source discharge that is composed entirely of stormwater associated with an industrial activity, a construction activity, a discharge from a municipal separate storm sewer system, or other discharge designated by the agency.
- (69) Stream order--A classification of stream size, where the smallest, unbranched tributaries of a drainage basin are designated first order streams. Where two first order streams join, a second order stream is formed; where two second order streams join, a third order stream is formed, etc. For purposes of water quality standards application, stream order is determined from United States Geological Survey topographic maps with a scale of 1:24,000.
- (70) Surface water in the state--Lakes, bays, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, wetlands, marshes, inlets, canals, the Culf of Movice incide the territorial limits of EPA takes no action on the

inlets, canals, the Gulf of Mexico inside the territorial limits of the state <u>as defined in the Texas Water Code</u>, §26.001, and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, navigable or nonnavigable, and

including the beds and banks of all water-courses and bodies

underlined revision, Under the CWA, Texas does not have jurisdiction to establish WQS more than 3 miles from the coast.

of surface water, that are wholly or partially inside or bordering the state or subject to the jurisdiction of the state; except that waters in treatment systems that are authorized by state or federal law, regulation, or permit, and that are created for the purpose of waste treatment are not considered to be water in the state.

- (71) Sustainable Fisheries--Descriptive of water bodies that potentially have sufficient fish production or fishing activity to create significant long-term human consumption of fish. Sustainable fisheries include perennial streams and rivers with a stream order of three or greater; lakes and reservoirs greater than or equal to 150 acrefeet or 50 surface acres; all bays, estuaries, and tidal rivers. Water bodies that are presumed to have sustainable fisheries include all designated segments listed in Appendix A of §307.10 of this title (relating to Appendices A G) unless specifically exempted.
- (72) Thalweg--The deepest portion of a stream or river channel cross-section.
- (73) Tidal--Descriptive of coastal waters that are subject to the ebb and flow of tides. For purposes of standards applicability, tidal waters are considered to be saltwater. Classified tidal waters include all bays and estuaries with a segment number that begins with 24xx, all streams with the word tidal in the segment name, and the Gulf of Mexico.
- (74) To discharge--Includes to deposit, conduct, drain, emit, throw, run, allow to seep, or otherwise release or dispose of, or to allow, permit, or suffer any of these acts or omissions.
- (75) Total dissolved solids--The amount of material (inorganic salts and small amounts of organic material) dissolved in water and commonly expressed as a concentration in terms of milligrams per liter. The term is equivalent to the term filterable residue, as used in 40 Code of Federal Regulations Part 136 and in previous editions of the publication entitled, *Standard Methods for the Examination of Water and Wastewater*.
- (76) Total maximum daily load (TMDL)--The total amount of a substance that a water body can assimilate and still meet the Texas Surface Water Quality Standards.
- (77) Total suspended solids--Total suspended matter in water, which is commonly expressed as a concentration in terms of milligrams per liter. The term is equivalent to nonfilterable residue, as used in 40 Code of Federal Regulations Part 136 and in previous editions of the publication entitled, *Standard Methods for the Examination of Water and Wastewater*.
- (78) Total toxicity--Toxicity as determined by exposing aquatic organisms to samples or dilutions of instream water or treated effluent. Also referred to as whole effluent toxicity or biomonitoring.
- (79) Toxic equivalency factor--A factor to describe an order-of-magnitude consensus estimate of the toxicity of a compound relative to the toxicity of 2,3,7,8-tetraclorodibenzo-p-dioxin (2,3,7,8-TCDD). The factor is applied to transform various

concentrations of dioxins and furans or dioxin-like polychlorinated biphenyls into equivalent concentrations of 2,3,7,8-TCDD, expressed as a toxic equivalency.

- (80) Toxic equivalency--The sum of the products from the concentration of each dioxin and furan, or dioxin-like polychlorinated biphenyl congener, multiplied by its respective toxic equivalency factor to give a single 2,3,7,8-tetraclorodibenzo-p-dioxin equivalent.
- (81) Toxicity--The occurrence of adverse effects to living organisms due to exposure to toxic materials. Adverse effects caused by conditions of temperature and dissolved oxygen are excluded from the definition of toxicity. With respect to the provisions of §307.6(e) of this title (relating to Toxic Materials), which concerns total toxicity and biomonitoring requirements, adverse effects caused by concentrations of dissolved salts (such as sodium, potassium, calcium, chloride, carbonate) in source waters are excluded from the definition of toxicity. Source water is defined as surface water or groundwater that is used as a public water supply or industrial water supply (including a cooling-water supply). Source water does not include brine water that is produced during the extraction of oil and gas, or other sources of brine water that are substantially uncharacteristic of surface waters in the area of discharge. In addition, adverse effects caused by concentrations of dissolved salts that are added to source water by industrial processes are not excluded from the requirements of §307.6(e) of this title, except as specifically noted in §307.6(e)(2)(B) of this title, which concerns requirements for toxicity testing of 100% effluent. This definition of toxicity does not affect the standards for dissolved salts in this chapter other than §307.6(e) of this title. The standards implementation procedures contain provisions to protect surface waters from adverse effects of dissolved salts and methods to address the effects of dissolved salts on total toxicity tests.
- (82) Toxicity biomonitoring--The process or act of determining total toxicity. Documents that describe procedures for toxicity biomonitoring are cited in §307.6 of this title (relating to Toxic Materials). Also referred to simply as biomonitoring.
- (83) Water-effect ratio (WER)--The WER is calculated as the toxic concentration (LC_{50}) of a substance in water at a particular site, divided by the toxic concentration of that substance as reported in laboratory dilution water. The WER can be used to establish site-specific acute and chronic criteria to protect aquatic life. The site-specific criterion is equal to the WER times the statewide aquatic life criterion in §307.6(c) of this title.
- (84) Water quality management program--The agency's overall program for attaining and maintaining water quality consistent with state standards, as authorized under the Texas Water Code, the Texas Administrative Code, and the Clean Water Act, §§106, 205(j), 208, 303(e) and 314 (33 United States Code, §§1251 *et seq.*).
- (85) Wetland--An area (including a swamp, marsh, bog, prairie pothole, or similar area) having a predominance of hydric soils that are inundated or saturated by

surface or groundwater at a frequency and duration sufficient to support and that under normal circumstances supports the growth and regeneration of hydrophytic vegetation. The term "hydric soil" means soil that, in its undrained condition, is saturated, flooded, or ponded long enough during a growing season to develop an anaerobic condition that supports the growth and regeneration of hydrophytic vegetation. The term "hydrophytic vegetation" means a plant growing in: water or a substrate that is at least periodically deficient in oxygen during a growing season as a result of excessive water content. The term "wetland" does not include irrigated acreage used as farmland; a man-made wetland of less than one acre; or a man-made wetland where construction or creation commenced on or after August 28, 1989, and that was not constructed with wetland creation as a stated objective, including but not limited to an impoundment made for the purpose of soil and water conservation that has been approved or requested by soil and water conservation districts. If this definition of wetland conflicts with the federal definition in any manner, the federal definition prevails.

- (86) Wetland water quality functions--Attributes of wetlands that protect and maintain the quality of water in the state, which include stormwater storage and retention and the moderation of extreme water level fluctuations; shoreline protection against erosion through the dissipation of wave energy and water velocity, and anchoring of sediments; habitat for aquatic life; and removal, transformation, and retention of nutrients and toxic substances.
- (87) Zone of initial dilution--The small area at the immediate point of a permitted discharge where initial dilution with receiving waters occurs and that may not meet certain criteria applicable to the receiving water. A zone of initial dilution is substantially smaller than a mixing zone.
 - (b) Abbreviations. The following abbreviations apply to this chapter:
 - (1) ALU--aquatic life use.
 - (2) AP--aquifer protection.
 - (3) AS--agricultural water supply.
 - (4) ASTER--Assessment Tools for the Evaluation of Risk.
 - (5) BCF--bioconcentration factor.
 - (6) CASRN--Chemical Abstracts Service Registry number.
 - (7) CFR--Code of Federal Regulations.
 - (8) cfs--cubic feet per second.
 - (9) Cl⁻¹--chloride.

- (10) CR--county road.
- (11) DO--dissolved oxygen.
- (12) E--exceptional aquatic life use.
- (13) EPA--United States Environmental Protection Agency.
- (14) degrees F--degrees Fahrenheit.
- (15) FM--Farm to Market Road.
- (16) ft³/s--cubic feet per second.
- (17) H--high aquatic life use.
- (18) HEAST--Health Effects Assessment Summary Tables.
- (19) I--intermediate aquatic life use.
- (20) IBWC--International Boundary and Water Commission.
- (21) IH--Interstate Highway.
- (22) IRIS--Integrated Risk Information System.
- (23) IS--industrial water supply.
- (24) km--kilometer.
- (25) L--limited aquatic life use.
- (26) M--minimal aquatic life use.
- (27) m--multiplier.
- (28) m/km--meters per kilometer.
- (29) MCL--maximum contaminant level (for public drinking water supplies).
- (30) MDL--method detection limit.
- (31) mg/L--milligrams per liter.
- (32) mi--mile.

- (33) mL--milliliter.
- (34) N--navigation.
- (35) NCR--noncontact recreation.
- (36) O--oyster waters.
- (37) PCR--primary contact recreation.
- (38) PS--public water supply.
- (39) RfD--reference dose.
- (40) RR--ranch road.
- (41) 7Q2--seven-day, two-year low-flow.
- (42) SCR--secondary contact recreation.
- (43) SH--state highway.
- (44) SO_4^{-2} --sulfate.
- (45) SU--standard units.
- (46) TCEQ--Texas Commission on Environmental Quality.
- (47) TDS--total dissolved solids.
- (48) TEF--toxic equivalency factor.
- (49) TMDL--total maximum daily load.
- (50) TPDES--Texas Pollutant Discharge Elimination System.
- (51) TRE--toxicity reduction evaluation.
- (52) TSS--total suspended solids.
- (53) US--United States.
- (54) USFDA--United States Food and Drug Administration.
- (55) USGS--United States Geological Survey.

- (56) WER--Water-effect ratio.
- (57) WF--waterfowl habitat.
- (58) WQM--water quality management.
- (59) μg/L--micrograms per liter.
- (60) ZID--zone of initial dilution.

§307.4. General Criteria.

(a) Application. The general criteria set forth in this section apply to surface water in the state and specifically apply to substances attributed to waste discharges or human activities. General criteria do not apply to those instances when surface water, as a result of natural phenomena, exhibit characteristics beyond the limits established by this section. General criteria are superseded by specific exemptions stated in this section or in §307.8 of this title (relating to the Application of Standards), or by site-specific water quality standards for classified segments. Provisions of the general criteria remain in effect in mixing zones or below critical low-flow conditions unless specifically exempted in §307.8 of this title.

(b) Aesthetic parameters.

- (1) Concentrations of taste and odor producing substances must not interfere with the production of potable water by reasonable water treatment methods, impart unpalatable flavor to food fish including shellfish, result in offensive odors arising from the waters, or otherwise interfere with the reasonable use of the water in the state.
- (2) Surface water must be essentially free of floating debris and suspended solids that are conducive to producing adverse responses in aquatic organisms or putrescible sludge deposits or sediment layers that adversely affect benthic biota or any lawful uses.
- (3) Surface waters must be essentially free of settleable solids conducive to changes in flow characteristics of stream channels or the untimely filling of surface water in the state. This provision does not prohibit dredge and fill activities that are permitted in accordance with the Federal Clean Water Act.
- (4) Surface waters must be maintained in an aesthetically attractive condition.

- (5) Waste discharges must not cause substantial and persistent changes from ambient conditions of turbidity or color.
 - (6) No foaming or frothing of a persistent nature is permissible.
- (7) Surface waters must be maintained so that oil, grease, or related residue do not produce a visible film or sheen of oil or globules of grease on the surface or coat the banks or bottoms of the watercourse; or cause toxicity to man, aquatic life, or terrestrial life in accordance with subsection (d) of this section.
- (c) Radiological substances. Radioactive materials must not be discharged in excess of the amount regulated by Chapter 336 of this title (relating to Radioactive Substance Rules).
- (d) Toxic substances. Surface waters must not be toxic to man from ingestion of water, consumption of aquatic organisms, or contact with the skin, or to terrestrial or aquatic life. Additional requirements and criteria for toxic substances are specified in §307.6 of this title (relating to Toxic Materials). Criteria to protect aquatic life from acute toxicity apply to all surface waters in the state except as specified in §307.8(a)(3) of this title. Criteria to protect aquatic life from chronic toxicity apply to surface waters with an aquatic life use of limited, intermediate, high, or exceptional as designated in §307.10 of this title (relating to Appendices A G) or as determined on a case-by-case basis in accordance with subsection (l) of this section. Toxic criteria to protect human health for consumption of fish apply to waters with a sustainable or incidental fishery, as described in §307.6(d) of this title. Additional criteria apply to water in the state with a public drinking water supply use, as described in §307.6(d) of this title. The general provisions of this subsection do not change specific provisions in §307.8 of this title for applying toxic criteria.
- (e) Nutrients. Nutrients from permitted discharges or other controllable sources must not cause excessive growth of aquatic vegetation that impairs an existing, designated, presumed, or attainable use. Site-specific nutrient criteria, nutrient permit limitations, or separate rules to control nutrients in individual watersheds are established where appropriate after notice and opportunity for public participation and proper hearing. Site-specific numeric criteria related to chlorophyll *a* are listed in Appendix F of §307.10 of this title.
- (f) Temperature. Consistent with §307.1 of this title (relating to General Policy Statement) and in accordance with state water rights permits, temperature in industrial cooling impoundments, industrial cooling water areas, and all other surface water in the state must be maintained so as to not interfere with the reasonable use of such waters. Numerical temperature criteria have not been specifically established for industrial cooling impoundments, which in most areas of the state contribute to water conservation and

water quality objectives. In addition, numerical criteria for temperature are not applicable in designated industrial cooling water areas, as defined in §307.3 of this title (relating to Definitions and Abbreviations). The horizontal boundaries of an industrial cooling water area must be defined in the applicable wastewater permit. The following temperature criteria, expressed as a maximum temperature differential (rise over ambient) are established except for industrial cooling impoundments, temperature elevations due to discharges of treated domestic (sanitary) effluent, and temperature elevations within designated mixing zones or industrial cooling water areas. The maximum temperature differentials are:

- (1) freshwater streams: 5 degrees Fahrenheit (degrees F);
- (2) freshwater lakes and impoundments: 3 degrees F; and
- (3) tidal river reaches, bay, and gulf waters: 4 degrees F in fall, winter, and spring, and 1.5 degrees F in summer (June, July, and August).
- (4) Additional temperature criteria (expressed as maximum temperatures) for classified segments are specified in Appendix A of §307.10 of this title. These criteria are not applicable within industrial cooling water areas.

(g) Salinity.

- (1) Concentrations and the relative ratios of dissolved minerals such as chloride, sulfate, and total dissolved solids must be maintained such that existing, designated, presumed, and attainable uses are not impaired.
- (2) Criteria for chloride, sulfate, and total dissolved solids for classified freshwater segments are specified in Appendix A of §307.10 of this title.
- (3) Salinity gradients in estuaries must be maintained to support attainable estuarine dependent aquatic life uses. Numerical salinity criteria for Texas estuaries have not been established because of the high natural variability of salinity in estuarine systems, and because long-term studies by state agencies to assess estuarine salinities are still ongoing. Absence of numerical criteria must not preclude evaluations and regulatory actions based on estuarine salinity, and careful consideration must be given to all activities that may detrimentally affect salinity gradients.
 - (h) Aquatic life uses and dissolved oxygen.
- (1) Dissolved oxygen concentrations must be sufficient to support existing, designated, presumed, and attainable aquatic life uses. Aquatic-life use categories and

corresponding dissolved oxygen criteria are described in §307.7(b)(3) of this title (relating to Site-Specific Uses and Criteria).

- (2) Aquatic life use categories and dissolved oxygen criteria for classified segments are specified in Appendix A of §307.10 of this title. Aquatic life use categories and dissolved oxygen criteria for other specific water bodies are specified in Appendix D of §307.10 of this title. Where justified by sufficient site-specific information, dissolved oxygen criteria that differ from §307.7(b)(3) of this title may be adopted for a particular water body in §307.10 of this title.
- (3) Perennial streams, rivers, lakes, bays, estuaries, and other appropriate perennial waters that are not specifically listed in Appendix A or D of §307.10 of this title are presumed to have a high aquatic life use and corresponding dissolved oxygen criteria. Applicable dissolved oxygen criteria are described in §307.7(b)(3)(A) of this title. Higher uses are protected where they are attainable.
- (4) When water is present in the streambed of intermittent streams, a 24-hour dissolved oxygen mean of at least 2.0 mg/L and 24-hour minimum dissolved oxygen concentration of 1.5 mg/L must be maintained. Intermittent streams that are not specifically listed in Appendix A or D of §307.10 of this title are considered to have a minimal aquatic life use except as indicated below in this subsection. For intermittent streams with seasonal aquatic life uses, dissolved oxygen concentrations commensurate with the aquatic life uses must be maintained during the seasons when the aquatic life uses occur. Unclassified intermittent streams with perennial pools are presumed to have a limited aquatic life use and corresponding dissolved oxygen criteria. Higher uses are protected where they are attainable.
- (i) Aquatic life uses and habitat. Vegetative and physical components of the aquatic environment must be maintained or mitigated to protect aquatic life uses. Procedures to protect habitat in permits for dredge and fill are specified in Federal Clean Water Act, §404 and in Chapter 279 of this title (relating to Water Quality Certification).

(j) Aquatic recreation.

- (1) Existing, designated, presumed, and attainable uses of aquatic recreation must be maintained, as determined by criteria that indicate the potential presence of pathogens. Categories of recreation and applicable criteria are established in §307.7(b)(1) of this title.
- (2) Recreational use categories and criteria for classified segments are specified in Appendix A of §307.10 of this title. Site-specific recreational use categories and criteria for selected unclassified water bodies are specified in Appendix G of §307.10 of this title. Where justified by sufficient site-specific information, recreational uses and criteria

that differ from §307.7(b)(1) of this title may be adopted for a particular water body in §307.10 of this title. For water bodies not specifically listed in Appendix A or Appendix G of §307.10 of this title, the following recreational uses are presumed to apply.

(A) Primary contact recreation 1. Primary contact recreation 1 is presumed for lakes, reservoirs, and tidal water bodies. Primary contact recreation 1 is presumed to apply to intermittent streams, intermittent streams with perennial pools, nontidal wetlands, and perennial freshwater streams and rivers, except where site-specific information indicates that recreational activities that involve a significant risk of ingestion have little to no likelihood of occurring, in accordance with subparagraph (C) of this paragraph.

(B) Primary contact recreation 2. No water body is presumed to have a use of primary contact recreation 2. This use is applicable when designated for an individual water body as listed in Appendix A or G in §307.10 of this title. Primary contact recreation 2 applies to water bodies where water recreation activities that involve a significant risk of ingestion of water occur, but less frequently than for primary contact recreation 1 due to:

- (i) physical characteristics of the water body; or
- (ii) limited public access.
- (C) Secondary contact recreation 1. Secondary contact recreation 1 applies to water bodies where water recreation can occur, but the nature of the recreation does not involve a significant risk of ingestion. Secondary contact recreation 1 applies to intermittent and perennial freshwaters where site-specific information demonstrates that primary contact recreation 1 or 2 have little to no likelihood of occurring. At a minimum, the following characteristics must be demonstrated for a presumed use of secondary contact recreation 1 to apply:
- (i) during dry weather flows, the average depth at the thalweg (mid-channel) is less than 0.5 meters and there are not substantial pools with a depth of 1 meter or greater; and
- (ii) there are no existing recreational activities that create a significant risk of ingestion or uses for primary contact recreation 1 or 2.
- (D) Secondary contact recreation 2. Secondary contact recreation 2 applies to water bodies where water recreation activities do not involve a significant risk of water ingestion and where activities occur less frequently than for secondary contact

recreation 1 due to physical characteristics of the water body or limited public access. No water body is presumed to have a use of secondary contact recreation 2. This use is applicable when designated for an individual water body as listed in Appendix A or G in §307.10 of this title.

(E) Noncontact recreation. Noncontact recreation applies to water bodies where recreation activities do not involve a significant risk of water ingestion and where primary and secondary contact recreation uses should not occur because of unsafe conditions. No water body is presumed to have a use of noncontact recreation. This use is applicable when designated for an individual water body as listed in Appendix A or G in §307.10 of this title.

(3) Assigning recreational uses to an unclassified water body.

(A) Applying presumed uses.

Recreational uses and associated numerical criteria are assigned to an unclassified water body in accordance with the presumed uses and guidelines established in paragraph (2) of this subsection. To assign uses other than primary contact recreation 1, a reasonable level of inquiry is conducted to determine if a different presumed use is appropriate for a particular water body. A reasonable level of inquiry includes review of available relevant information or completed site surveys.

(B) Assigning presumed uses. Presumed uses of primary contact recreation 1 and secondary contact recreation 1 can be assigned to an individual water body for regulatory action without individually designating the recreational use and criteria in Appendix G in §307.10 of this title. Regulatory action may include issuing Texas Pollutant Discharge Elimination System permits, revising the list of impaired water bodies under Clean Water Act, §303(d), or setting and implementing a total maximum daily load. The presumed secondary contact recreation 1 use is included in the public notice of a regulatory action that could affect recreational water quality, and the assigned recreational uses are subject to applicable public comment and approval by the United States Environmental Protection Agency (EPA). For tracking purposes, presumed recreational uses that have been determined to be less stringent than primary contact recreation 1 are noted in a publicly available list such as the EPA's Water Quality Standards Repository prior to a water quality standards revision. Presumed uses that have been determined for particular water bodies are listed in Appendix G in §307.10 of this title when the water quality standards are revised.

(C) Assigning a use less stringent than presumed use. A recreational use that is less stringent than the applicable presumed use can only be assigned to an individual water body for a regulatory action after that use is approved by the EPA and

designated in Appendix A or G in §307.10 of this title. Support for designating a use less stringent than an applicable presumed use requires a use-attainability analysis (UAA). 40 Code of Federal Regulations §131.1(g) lists six reasons for a change in use in a water body. At least one of these reasons must be included in the UAA.

- (k) Antidegradation. Nothing in this section is intended to be construed or otherwise used to supersede the requirements of §307.5 of this title (relating to Antidegradation).
- (l) Assessment of unclassified waters for aquatic life uses. Waters that are not specifically listed in Appendices A or D of §307.10 of this title are assigned the specific uses that are attainable or characteristic of those waters. Upon administrative or regulatory action by the commission that affects a particular unclassified water body, the characteristics of the affected water body must be reviewed by the commission to determine which aquatic life uses are appropriate. Additional uses so determined must be indicated in public notices for discharge applications. Uses that are not applicable throughout the year in a particular unclassified water body are assigned and protected for the seasons where such uses are attainable. Initial determinations of use are considered preliminary, and in no way preclude redeterminations of use in public hearings conducted under the provisions of the Texas Water Code. For unclassified waters where the presumed minimum uses or criteria specified in this section are inappropriate, site-specific standards may be developed in accordance with §307.2(d) of this title (relating to Description of Standards). Uses and criteria are assigned in accordance with this section and with §307.7(b)(3) of this title. Procedures for assigning uses and criteria are described in the standards implementation procedures.
- (m) pH. Consistent with §307.1 of this title, pH levels in all surface water in the state must be maintained so as to not interfere with the reasonable use of such waters.

§307.5. Antidegradation.

- (a) Application. The antidegradation policy and implementation procedures set forth in this section apply to actions regulated under state and federal authority that would increase pollution of the water in the state. Such actions include authorized wastewater discharges, total maximum daily loads (TMDLs), waste load evaluations, and any other miscellaneous actions, such as those related to man-induced nonpoint sources of pollution, that may impact the water in the state.
- (b) Antidegradation policy. In accordance with the Texas Water Code, §26.003, the following provisions establish the antidegradation policy of the commission.

- (1) Tier 1. Existing uses and water quality sufficient to protect those existing uses must be maintained. Categories of existing uses are the same as for designated uses, as defined in §307.7 of this title (relating to Site-Specific Uses and Criteria).
- (2) Tier 2. No activities subject to regulatory action that would cause degradation of waters that exceed fishable/swimmable quality are allowed unless it can be shown to the commission's satisfaction that the lowering of water quality is necessary for important economic or social development. Degradation is defined as a lowering of water quality by more than a de minimis extent, but not to the extent that an existing use is impaired. Water quality sufficient to protect existing uses must be maintained. Fishable/swimmable waters are defined as waters that have quality sufficient to support propagation of indigenous fish, shellfish, terrestrial life, and recreation in and on the water.
- (3) Tier 3. Outstanding national resource waters are defined as high quality waters within or adjacent to national parks and wildlife refuges, state parks, wild and scenic rivers designated by law, and other designated areas of exceptional recreational or ecological significance. The quality of outstanding national resource waters must be maintained and protected.
- (4) Discharges that cause pollution that are authorized by the Texas Water Code, the Federal Clean Water Act, or other applicable laws must not lower water quality to the extent that the Texas Surface Water Quality Standards are not attained.
- (5) Anyone discharging wastewater that would constitute a new source of pollution or an increased source of pollution from any industrial, public, or private project or development is required to provide a level of wastewater treatment consistent with the provisions of the Texas Water Code and the Clean Water Act (33 United States Code, §§1251 *et seq.*). As necessary, cost-effective and reasonable best management practices established through the Texas Water Quality Management Program are achieved for nonpoint sources of pollution.
- (6) Application of antidegradation provisions does not preclude the commission from establishing modified thermal discharge limitations consistent with the Clean Water Act, §316(a) (33 United States Code, §1326).
 - (c) Antidegradation implementation procedures.
 - (1) Implementation for specific regulatory activities.
- (A) For TPDES permits for wastewater, the process for the antidegradation review and public coordination is described in the standards implementation procedures.

- (B) For federal permits relating to the discharge of fill or dredged material under Federal Clean Water Act, §404, the antidegradation policy and public coordination is implemented through the evaluation of alternatives and mitigation under Federal Clean Water Act, §404(b)(1). State review of alternatives, mitigation, and requirements to protect water quality may also be conducted for federal permits that are subject to state certification, as authorized by Federal Clean Water Act, §401 and conducted in accordance with Chapter 279 of this title (relating to Water Quality Certification).
- (C) Other state and federal permitted and regulated activities that increase pollution of water in the state are also subject to the provisions of the antidegradation policy as established in subsections (a) and (b) of this section.
 - (2) General provisions for implementing the antidegradation policy.
- (A) Tier 1 reviews must ensure that water quality is sufficiently maintained so that existing uses are protected. All pollution that could cause an impairment of water quality is subject to Tier 1 reviews. If the existing uses and criteria of a potentially affected water body have not been previously determined, then the antidegradation review must include a preliminary determination of existing uses and criteria. Existing uses must be maintained and protected.
- (B) Tier 2 reviews apply to all pollution that could cause degradation of water quality where water quality exceeds levels necessary to support propagation of fish, shellfish, terrestrial life, and recreation in and on the water (fishable/swimmable quality). Guidance for determining water bodies that exceed fishable/swimmable quality is contained in the standards implementation procedures. For dissolved oxygen, analyses of degradation under Tier 2 must utilize the same critical conditions as are used to protect instream criteria. For other parameters, appropriate conditions may vary. Conditions for determining degradation are commensurate with conditions for determining existing uses. The highest water quality sustained since November 28, 1975 (in accordance with EPA Standards Regulation 40 Code of Federal Regulations Part 131) defines baseline conditions for determinations of degradation.
- (C) Tier 3 reviews apply to all pollution that could cause degradation of outstanding national resource waters. Outstanding national resource waters are those specifically designated in this chapter.
- (D) When degradation of waters exceeding fishable/swimmable quality is anticipated, a statement that the antidegradation policy is pertinent to the permit action must be included in the public notice for the permit application or amendment. If no degradation is anticipated, the public notice must so state.

- (E) Evidence can be introduced in public hearings, or through the public comment process, concerning the determination of existing uses and criteria; the assessment of degradation under Tier 1, Tier 2, and Tier 3; the social and economic justification for lowering water quality; requirements and conditions necessary to preclude degradation; and any other issues that bear upon the implementation of the antidegradation policy.
- (F) Interested parties are given the opportunity to provide comments and additional information concerning the determination of existing uses, anticipated impacts of the discharge, baseline conditions, and the necessity of the discharge for important economic or social development if degradation of water quality is expected under Tier 2.
- (G) The antidegradation policy and the general provisions for implementing the antidegradation policy apply to the determination of TMDLs and to waste load evaluations that allow an increase in loading. If the TMDL or waste load evaluation indicates that degradation of waters exceeding fishable/swimmable quality is expected, the public hearing notice must so state. Permits that are consistent with an approved TMDL or waste load evaluation under this antidegradation policy are not subjected to a separate antidegradation review for the specific parameters that are addressed by the TMDL or waste load evaluation.

§307.6. Toxic Materials.

(a) Application. The toxic criteria set forth in this section apply to surface water in the state and specifically apply to substances attributed to waste discharges or human activity. With the exception of numeric human health criteria, toxic criteria do not apply to those instances where surface water, solely as a result of natural phenomena, exhibit characteristics beyond the limits established by this section. Standards and procedures set forth in this section are applied in accordance with §307.8 of this title (relating to Application of Standards) and §307.9 of this title (relating to Determination of Standards Attainment).

(b) General provisions.

- (1) Water in the state must not be acutely toxic to aquatic life in accordance with §307.8 of this title.
- (2) Water in the state with designated or existing aquatic life uses of limited or greater must not be chronically toxic to aquatic life, in accordance with §307.8 of this title.

- (3) Water in the state must be maintained to preclude adverse toxic effects on human health resulting from contact recreation, consumption of aquatic organisms, consumption of drinking water or any combination of the three. Water in the state with sustainable fisheries or public drinking water supply uses must not exceed applicable human health toxic criteria, in accordance with subsection (d) of this section and §307.8 of this title.
- (4) Water in the state must be maintained to preclude adverse toxic effects on aquatic life, terrestrial life, livestock, or domestic animals, resulting from contact, consumption of aquatic organisms, consumption of water, or any combination of the three.
 - (c) Specific numerical aquatic life criteria.
- (1) Numerical criteria are established in Table 1 of this paragraph for those specific toxic substances where adequate toxicity information is available and that have the potential for exerting adverse impacts on water in the state.

Figure: 30 TAC §307.6(c)(1)

EPA has not approved new freshwater acute and chronic criteria for acrolein. These criteria are not effective for CWA purposes.

TABLE 1 Criteria in Water for Specific Toxic Materials AQUATIC LIFE PROTECTION (All values are listed or calculated in micrograms per liter) (Hardness concentrations are input as milligrams per liter)

EPA has not approved the new freshwater chronic criterion or the revised saltwater acute criterion for carbaryl. The saltwater acute criterion (613 mg/L) remains in effect for CWA purposes.

Parameter	CASRN	Freshwater Acute Criteria	Freshwater Chronic Criteria	Saltwater Acute	Saltwater Chronic
				Criteria	Criteria
Acrolein	107-02-8	3.0	3.0	/	
Aldrin	309-00-2	3.0		1.3	
Aluminum (d)	7429-90-5	991w		/	
Arsenic (d)	7440-38-2	340w	150w	149w	78w
Cadmium (d)	7440-43-9	(1.136672-	(1.101672-	40.0w	8.75w
		$(\ln(\text{hardness})(0.041838)))$ $(We^{(1.0166(\ln(\text{hardness}))-2.4743)})$	$(\ln(\text{hardness})(0.041838)))$ $(We^{(0.7409(\ln(\text{hardness})).7719)})$		
Carbaryl	63-25-2	2.0	2.0	1.6	
Chlordane	57-74-9 and	2.4	0.004	0.09	0.004
	12789-03-6				
Chlorpyrifos	2921-88-2	0.083	0.041	0.011	0.006
Chromium (Tri)(d)	16065-83-1	$0.316 we^{(0.8190(ln(hardness))+3.7256)}$	$0.860 we^{\scriptscriptstyle (0.8190(ln(hardness))+0.6848)}$		
Chromium (Hex)(d)	18540-29-9	15.7w	10.6w	1,090w	49.6w
Copper (d) ¹	7440-50-8	$0.960 me^{(0.9422(\ln(\text{hardness}))-1.6448)}$	$0.960 me^{(0.8545(ln(hardness))-1.6463)}$	13.5w	3.6w
Cyanide ² (free)	57-12-5	45.8	10.7	5.6	5.6
_4,4'-DDT	50-29-3	1.1	0.001	0.13	0.001
Demeton	8065-48-3		0.1		0.1
Diazinon	333-41-5	0.17	0.17	0.819	0.819
Dicofol	115-32-2	59.3	19.8		
Dieldrin	60-57-1	0.24	0.002	0.71	0.002
Diuron	330-54-1	210	70		

Parameter	CASRN	Freshwater Acute Criteria	Freshwater Chronic Criteria	Saltwater Acute Criteria	Saltwater Chronic Criteria
Endosulfan I	959-98-8	0.22	0.056	0.034	0.009
(alpha)					
Endosulfan II (beta)	33213-65-9	0.22	0.056	0.034	0.009
Endosulfan sulfate	1031-07-8	0.22	0.056	0.034	0.009
Endrin	72-20-8	0.086	0.002	0.037	0.002
Guthion	86-50-0		0.01		0.01
Heptachlor	76-44-8	0.52	0.004	0.053	0.004
Hexachloro-	58-89-9	1.126	0.08	0.16	
cyclohexane					
<i>(gamma)</i> (Lindane)					
Lead (d)	7439-92-1	(1.46203-	(1.46203-	133w	5.3w
		$(\ln(\text{hardness})(0.145712)))$ $(we^{(1.273(\ln(\text{hardness}))-1.460)})$	$(\ln(\text{hardness})(0.145712)))$ $(we^{(1.273(\ln(\text{hardness}))-4.705)})$		
Malathion	121-75-5		0.01		0.01
Mercury	7439-97-6	2.4	1.3	2.1	1.1
Methoxychlor	72-43-5		0.03		0.03
Mirex	2385-85-5		0.001		0.001
Nickel (d)	7440-02-0	$0.998we^{(0.8460(ln(hardness))+2.255)}$	$0.997we^{(0.8460(ln(hardness))+0.0584)}$	118w	13.1w
Nonylphenol	84852-15-3 and	28	6.6	7	1.7
	25154-52-3				
Parathion (ethyl)	56-38-2	0.065	0.013		
Pentachlorophenol	87-86-5	$e^{(1.005({ m pH})-4.869)}$	$e^{(1.005({ m pH}) ext{-}5.134)}$	15.1	9.6
Phenanthrene	85-01-8	30	30	7.7	4.6
Polychlorinated	1336-36-3	2.0	0.014	10	0.03
Biphenyls (PCBs) ³					
Selenium	7782-49-2	20	5	564	136
Silver, as free ion	7440-22-4	0.8w		2w	
Toxaphene	8001-35-2	0.78	0.0002	0.21	0.0002
Tributyltin (TBT)	688-73-3	0.13	0.024	0.24	0.0074

Parameter	CASRN	Freshwater Acute Criteria	Freshwater Chronic Criteria	Saltwater Acute Criteria	Saltwater Chronic Criteria
2,4,5	95-95-4	136	64	259	12
Trichlorophenol					
Zinc (d)	7440-66-6	$0.978we^{(0.8473(ln(hardness))+0.884)}$	$0.986 we^{(0.8473(ln(hardness))+0.884)}$	92.7w	84.2w

- In designated oyster waters, an acute saltwater copper criterion of 3.6 micrograms per liter applies outside of the mixing zone of permitted discharges, and specified mixing zones for copper do not encompass oyster reefs containing live oysters.
- 2 Compliance will be determined using the analytical method for available cyanide.
- 3 These criteria apply to the sum of all congener or all isomer or homolog or Arochlor analysis.
- (d) Indicates that the criteria for a specific parameter are for the dissolved portion in water. All other criteria are for total recoverable concentration, except where noted.
- *e* The mathematical constant that is the basis of the natural logarithm. When rounded to four decimal points, *e* is equal to 2.7183.
- Indicates that a criterion may be multiplied by a water-effect ratio (WER) or based on a biotic ligand model result in order to incorporate the effects of local water chemistry on toxicity. The WER multiplier is equal to 1 except where sufficient data is available to establish a site-specific multiplier. WER multipliers and criteria based on biotic ligand models for individual water bodies are listed in Appendix E of §307.10 of this title when standards are revised. The number preceding the m in the freshwater equation is an EPA conversion factor. The biotic ligand model is based on the dissolved portion of copper, and the equation is not used in this case.
- w Indicates that a criterion is multiplied by a WER in order to incorporate the effects of local water chemistry on toxicity. The WER is equal to 1 except where sufficient data is available to establish a site-specific WER. WERs for individual water bodies are listed in Appendix E of §307.10 of this title when standards are revised. The number preceding the w in the freshwater criterion equation is an EPA conversion factor.

- (2) Numerical criteria are based on ambient water quality criteria documents published by the EPA. EPA guidance criteria have been appropriately recalculated to eliminate the effects of toxicity data for aquatic organisms that are not native to Texas, in accordance with procedures in the EPA guidance documents entitled *Guidelines for Deriving Numerical Site-specific Water Quality Criteria* (EPA 600/3-84-099) and *Revised Deletion Process for the Site-Specific Recalculation Procedure for Aquatic Life Criteria* (EPA-823-R-13-001). Additional EPA guidelines that may be used to establish aquatic life criteria are detailed in the guidance documents.
- (3) Specific numerical acute aquatic life criteria are applied as 24-hour averages, and specific numerical chronic aquatic life criteria are applied as seven-day averages.
- (4) Ammonia and chlorine toxicity are addressed by total toxicity (biomonitoring) requirements in subsection (e) of this section.
- (5) Specific numerical aquatic life criteria for metals and metalloids in Table 1 of paragraph (1) of this subsection apply to dissolved concentrations where noted. Dissolved concentrations can be estimated by filtration of samples prior to analysis, or by converting from total recoverable measurements in accordance with procedures approved by the commission in the standards implementation procedures (RG-194) as amended. Specific numerical aquatic life criteria for non-metallic substances in Table 1 of paragraph (1) of this subsection apply to total recoverable concentrations unless otherwise noted.
- (6) Specific numerical acute criteria for toxic substances are applicable to all water in the state except for small zones of initial dilution (ZIDs) at discharge points. Acute criteria may be exceeded within a ZID and below extremely low streamflow conditions (one-fourth of critical low-flow conditions) in accordance with §307.8 of this title. There must be no lethality to aquatic organisms that move through a ZID, and the sizes of ZIDs are limited in accordance with §307.8 of this title. Specific numerical chronic criteria are applicable to all water in the state with designated or existing aquatic life uses of limited or greater, except inside mixing zones and below critical low-flow conditions, in accordance with §307.8 of this title.
- (7) For toxic materials where specific numerical criteria are not listed in Table 1 of paragraph (1) of this subsection, the appropriate criteria for aquatic life protection may be derived in accordance with current EPA guidelines for deriving site-specific water quality criteria. When insufficient data are available to use EPA guidelines, the following provisions are applied in accordance with this section and §307.8 of this title. The LC_{50} data used in the subsequent calculations are typically obtained from traditional laboratory studies; however, if LC_{50} data are unavailable or

incomplete, other methodologies (such as quantitative structure-activity relationships) may be used:

- (A) acute criteria are calculated as 0.3 of the LC₅₀ of the most sensitive aquatic species; LC₅₀ \times (0.3) = acute criteria;
- (B) concentrations of nonpersistent toxic materials must not exceed concentrations that are chronically toxic as determined from appropriate chronic toxicity data obtained in accordance with procedures in the EPA guidance document entitled *Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Life and Their Uses* (EPA 822-R-85-100) or calculated as 0.1 of acute LC_{50} values to the most sensitive aquatic species; $LC_{50} \times (0.1) = \text{chronic criteria}$;
- (C) concentrations of persistent toxic materials that do not bioaccumulate shall not exceed concentrations that are chronically toxic as determined from appropriate chronic toxicity data obtained in accordance with procedures in the EPA guidance document entitled *Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Life and Their Uses* (EPA 822-R-85-100) or calculated as 0.05 of LC₅₀ values to the most sensitive aquatic species; LC₅₀ × (0.05) = chronic criteria; and
- (D) concentrations of toxic materials that bioaccumulate must not exceed concentrations that are chronically toxic as determined from appropriate chronic toxicity data obtained in accordance with procedures in the EPA guidance document entitled *Guidelines for Deriving Numerical National Water Quality Criteria for the Protection of Aquatic Life and Their Uses* (EPA 822-R-85-100) or calculated as 0.01 of LC₅₀ values to the most sensitive aquatic species; LC₅₀ × (0.01) = chronic criteria.
- (8) For toxic substances where the relationship of toxicity is defined as a function of pH or hardness, numerical criteria are presented as an equation based on this relationship. Site-specific values for each segment are given in the standards implementation procedures (RG-194) as amended.
- (9) Criteria for most metals are multiplied by a water-effect ratio (WER) in order to incorporate the effects of local water chemistry on toxicity. The WER is assumed to be equal to one except where sufficient site-specific data are available to determine the WER for a particular water body or portion of a water body. A WER is only applicable to those portions of a water body that are adequately addressed by site-specific data. WERs that have been determined for particular water bodies are listed in Appendix E of §307.10 of this title (relating to Appendices A G) when standards are revised. A site-specific WER that affects an effluent limitation in a wastewater discharge permit, and that has not been incorporated into Appendix E of §307.10 of this title, must be noted in a public notice during the permit application

process. An opportunity for public comment must be provided, and the WER may be considered in any public hearing on the permit application.

- (10) Freshwater copper aquatic-life criteria include a multiplier (m) to incorporate effects of local water chemistry on toxicity. Site-specific criteria may be based on either a WER or a biotic ligand model. The WER multiplier is assumed to be equal to one except where sufficient site-specific data are available to determine the multiplier for a particular water body or portion of a water body. The WER multiplier or biotic ligand model result is only applicable to those portions of a water body that are adequately addressed by site-specific data. The biotic ligand model is based on the dissolved portion of copper, and the freshwater equation is not used in this case. As WER multipliers and criteria based on biotic ligand models are determined for particular water bodies, they are listed in Appendix E of §307.10 of this title when standards are revised. A site-specific WER multiplier or biotic ligand model result that affects an effluent limitation in a wastewater discharge permit, and that has not been incorporated into Appendix E of §307.10 of this title, is noted in a public notice during the permit application process. An opportunity for public comment must be provided, and the WER multiplier or biotic ligand model result may be considered in any public hearing on the permit application.
- (11) Additional site-specific factors may indicate that the numerical criteria listed in Table 1 of paragraph (1) of this subsection are inappropriate for a particular water body. These factors are applied as a site-specific standards modification in accordance with §307.2(d) of this title (relating to Description of Standards). The application of a site-specific standard must not impair an existing, attainable, or designated use. Factors that may justify a temporary variance or site-specific standards amendment include the following:
- (A) background concentrations of specific toxics of concern in receiving waters, sediment, or indigenous biota;
 - (B) persistence and degradation rate of specific toxic materials;
- (C) synergistic, additive, or antagonistic interactions of toxic substances with other toxic or nontoxic materials;
 - (D) measurements of total effluent toxicity;
- (E) indigenous aquatic organisms, which may have different responses to particular toxic materials;
- (F) technological or economic limits of treatability for specific toxic materials:

- (G) bioavailability of specific toxic substances of concern, as determined by WER tests or other analyses approved by the commission; and
- (H) new information concerning the toxicity of a particular substance.
 - (d) Specific numerical human health criteria.
- (1) Numerical human health criteria are established in Table 2 of this paragraph.

Figure: 30 TAC §307.6(d)(1)

TABLE 2 Criteria in Water for Specific Toxic Materials HUMAN HEALTH PROTECTION

(All values are listed or calculated in micrograms per liter unless otherwise noted)

		A	В
Parameter	CASRN	Water and Fish	Fish Only
		μg/L	μg/L
Acrylonitrile	107-13-1	1.0	115
Aldrin	309-00-2	1.146E-05	1.147E-05
Anthracene	120-12-7	1,109	1,317
Antimony	7440-36-0	61	1,071
Arsenic (d)	7440-38-2	10^{1}	
Barium (d)	7440-39-3	2,000¹	
Benzene	71-43-2	$5^{\scriptscriptstyle 1}$	581
Benzidine	92-87-5	0.0015	0.107
Benzo(<i>a</i>)anthracene	56-55-3	0.024	0.025
Benzo(a)pyrene	50-32-8	0.0025	0.0025
Bis(chloromethyl)ether	542-88-1	0.0024	0.2745
Bis(2-chloroethyl)ether	111-44-4	0.60	42.83
Bis(2-ethylhexyl)phthalate	117-81-7	$6^{\scriptscriptstyle 1}$	7.55
Bromodichloromethane	75-27-4	10.2	275
Bromoform	75-25-2	66.9	1,060
Cadmium (d)	7440-43-9	$5^{\scriptscriptstyle 1}$	
Carbon Tetrachloride	56-23-5	4.5	46
Chlordane	12789-03-6	0.0025	0.0025
Chlorobenzene	108-90-7	100^{1}	2,737
Chlorodibromomethane	124-48-1	7.5	183
Chloroform	67-66-3	70^{1}	7,697
Chromium (Hex) (d)	18540-29-9	62	502
Chrysene	218-01-9	2.45	2.52
Cresols	2	1,041	9,301
Cyanide (free) ³	57-12-5	200^{1}	
4,4'-DDD	72-54-8	0.002	0.002
_4,4'-DDE	72-55-9	0.00013	0.00013
4,4'-DDT	50-29-3	0.0004	0.0004
2,4-D	94-75-7	70^{1}	
Danitol	39515-41-8	262	473
1,2-Dibromoethane	106-93-4	0.17	4.24
<i>m</i> -Dichlorobenzene	541-73-1	322	595
<i>o</i> -Dichlorobenzene	95-50-1	$600^{\scriptscriptstyle 1}$	3,299
<i>p</i> -Dichlorobenzene	106-46-7	75¹	

		A	В
Parameter	CASRN	Water and Fish	Fish Only
		μg/L	μg/L
3,3'-Dichlorobenzidine	91-94-1	0.79	2.24
1,2-Dichloroethane	107-06-2	5 ¹	364
1,1-Dichloroethylene	75-35-4	71	55,114
Dichloromethane	75-09-2	5 ¹	13,333
1,2-Dichloropropane	78-87-5	5 ¹	259
_1,3-Dichloropropene	542-75-6	2.8	119
Dicofol	115-32-2	0.30	0.30
Dieldrin	60-57-1	2.0E-5	2.0E-5
2,4-Dimethylphenol	105-67-9	444	8,436
Di- <i>n</i> -Butyl Phthalate	84-74-2	88.9	92.4
Dioxins/Furans (TCDD	1746-01-6	7.80E-8	7.97E-8
Equivalents)			
Congener/Isomer		Toxic Equivalen	ıcy Factor
2,3,7,8 TCDD		1	-
1,2,3,7,8 PeCDD		1	
2,3,7,8 HxCDDs		0.1	
1,2,3,4,6,7,8 HpCDD		0.01	
2,3,7,8 TCDF		0.1	
1,2,3,7,8 PeCDF		0.03	
2,3,4,7,8 PeCDF		0.3	
2,3,7,8 HxCDFs		0.1	
2,3,4,7,8 HpCDFs		0.01	
OCDD		0.0003	}
OCDF		0.0003	}
PCB 77		0.0001	
PCB 81		0.0003	}
PCB126		0.1	
PCB 169		0.03	
Endrin	72-20-8	0.02	0.02
Epichlorohydrin	106-89-8	53.5	2,013
Ethylbenzene	100-41-4	700^{1}	1,867
Ethylene Glycol	107-21-1	46,744	1.68E7
Fluoride	16984-48-8	$4,000^{1}$	
Heptachlor	76-44-8	8.0E-5	0.0001
Heptachlor Epoxide	1024-57-3	0.00029	0.00029
Hexachlorobenzene	118-74-1	0.00068	0.00068
Hexachlorobutadiene	87-68-3	0.21	0.22
Hexachlorocyclohexane	319-84-6	0.0078	0.0084
(alpha)			
Hexachlorocyclohexane	319-85-7	0.15	0.26
(beta)			

		A	В
Parameter	CASRN	Water and Fish	Fish Only
		$\mu g/L$	μg/L
Hexachlorocyclohexane	58-89-9	0.2^{1}	0.341
(gamma) (Lindane)			
Hexachlorocyclopentadiene	77-47-4	10.7	11.6
Hexachloroethane	67-72-1	1.84	2.33
Hexachlorophene	70-30-4	2.05	2.90
4,4'-Isopropylidenediphenol	80-05-7	1,092	15,982
(bisphenol A)			
Lead (d)	7439-92-1	1.15	3.83
Mercury in freshwater ⁴	7439-97-6	0.0122	0.0122
Mercury in saltwater ⁵	7439-97-6		0.0250
Methoxychlor	72-43-5	2.92	3.0
Methyl Ethyl Ketone	78-93-3	13,865	9.92E+5
Methyl <i>tert</i> -butyl ether	1634-04-4	15^7	10,482
(MTBE)			,
Nickel (d)	7440-02-0	332	1140
Nitrate-Nitrogen as total	14797-55-8	$10,000^{1}$	
Nitrogen		,	
Nitrobenzene	98-95-3	45.7	1,873
<i>N</i> -Nitrosodiethylamine	55-18-5	0.0037	2.1
<i>N</i> -Nitroso-di- <i>n</i> -Butylamine	924-16-3	0.119	4.2
Pentachlorobenzene	608-93-5	0.348	0.355
Pentachlorophenol	87-86-5	0.22	0.29
Polychlorinated Biphenyls	1336-36-3	6.4E-4	6.4E-4
(PCBs) ⁶			
Pyridine	110-86-1	23	947
Selenium	7782-49-2	50 ¹	
1,2,4,5-Tetrachlorobenzene	95-94-3	0.23	0.24
1,1,2,2-Tetrachloroethane	79-34-5	1.64	26.35
Tetrachloroethylene	127-18-4	5 ¹	280
Thallium	7440-28-0	0.12	0.23
Toluene	108-88-3	1,000¹	
Toxaphene	8001-35-2	0.011	0.011
2,4,5-TP (Silvex)	93-72-1	50 ¹	369
1,1,1-Trichloroethane	71-55-6	2001	784,354
1,1,2-Trichloroethane	79-00-5	$5^{\scriptscriptstyle 1}$	166
Trichloroethylene	79-01-6	5 ¹	71.9
2,4,5 Trichlorophenol	95-95-4	1,039	1,867
TTHM (Sum of total		801	
trihalomethanes)			
bromodichloromethane	75-27-4		
dibromochloromethane	124-48-1		

		A	В
Parameter	CASRN	Water and Fish	Fish Only
		μg/L	μg/L
tribromomethane	75-25-2		
(bromoform)			
trichloromethane	67-66-3		
(chloroform)			
Vinyl Chloride	75-01-4	0.23	16.5

- Based on Maximum Contaminant Levels (MCLs) specified in 30 TAC Chapter 290 (relating to Public Drinking Water).
- 2 Consists of *m*, *o*, and *p* Cresols. The criteria are the same for all three, and the criteria are applied independently to each form of cresol. CASRNs for cresols are 95-48-7 for *o*-Cresol, 108-39-4 for *m*-Cresol, and 106-44-5 for *p*-Cresol.
- 3 Compliance is determined using the analytical method for available cyanide.
- 4 Consumption rate for fish and shellfish was estimated as 10 grams per person per day.
- 5 Consumption rate for fish and shellfish was estimated as 15 grams per person per day.
- Until Method 1668 or equivalent method to measure PCB congeners is approved in 40 Code of Federal Regulations Part 136, compliance with PCB criteria is determined using Arochlor data or any alternate method listed in a TCEQ-approved Quality Assurance Plan.
- 7 Based on aesthetics criteria in the 1998 Oxygenated Fuels Association study *Taste* and *Odor Properties of Methyl Tertiary-Butyl Ether and Implications for Setting a Secondary MCL*.
- (d) Indicates that the criteria for a specific parameter are for the dissolved fraction in water. All other criteria are for total recoverable concentrations, except where noted.

(2) Categories of human health criteria:

(A) concentration criteria to prevent contamination of drinking water, fish, and other aquatic life to ensure that they are safe for human consumption. These criteria apply to surface waters that are designated or used for public drinking water supplies, including all water bodies identified as having a public drinking water supply use in Appendix A of §307.10 of this title or as a sole-source surface drinking water

supply in Appendix B of §307.10 of this title. (Column A in Table 2 of paragraph (1) of this subsection);

- (B) concentration criteria to prevent contamination of fish and other aquatic life to ensure that they are safe for human consumption. These criteria apply to surface waters that have sustainable fisheries and that are not designated or used for public water supply or as a sole-source surface drinking water supply (Column B in Table 2 of paragraph (1) of this subsection);
- (3) Specific assumptions and procedures (except where noted in Table 2 of paragraph (1) of this subsection).
- (A) Sources for the toxicity factors to calculate criteria were derived from EPA's IRIS; EPA's *National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix* (EPA-822-R-02-012); EPA inputs for calculating the 2015 updated national recommended human health criteria; EPA Health Effects Assessment Summary Tables (HEAST); Assessment Tools for the Evaluation of Risk (ASTER); EPA's QSAR Toxicity Estimation Software Tool, version 4.1; and the computer program, CLOGP3.
- (B) For known or suspected carcinogens (as identified in EPA's IRIS database), an incremental cancer risk level of 10^{-5} (1 in 100,000) was used to derive criteria. An RfD (reference dose) was determined for carcinogens and noncarcinogens where the EPA has not derived cancer slope factors.
- (C) Consumption rates of fish and shellfish were estimated as 17.5 grams per person per day, unless otherwise specified in Table 2 of paragraph (1) of this subsection.
- (D) Drinking water consumption rates were estimated as 2.0 liters per person per day.
- (E) For carcinogens, a body-weight scaling factor of 3/4 power was used to convert data on laboratory test animals to human scale. Reported weights of laboratory test animals are used, and an average weight of 70 kilograms is assumed for humans.
- (F) Childhood exposure was considered for all noncarcinogens. Consumption rates for fish and shellfish were estimated as 5.6 grams per child per day, and drinking water consumption rates were estimated as 0.64 liters per child per day. A child body weight was estimated at 15 kilograms. Both the water consumption rate and body weight are age-adjusted for a six-year-old child. The consumption rate for fish and shellfish for children is from Table 10-61 of EPA's 1997 *Exposure Factors Handbook* (EPA/600/P-95/002Fa-c).

- (G) Numerical human health criteria were derived in accordance with the general procedures and calculations in the EPA guidance documents entitled *Technical Support Document for Water Quality-based Toxics Control* (EPA/505/2-90-001); *Guidance Manual for Assessing Human Health Risks from Chemically Contaminated Fish and Shellfish* (EPA/503/8-89-002); and *Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health* (2000) (EPA-822-B-00-004).
- (H) If a calculated criterion to prevent contamination of drinking water and fish to ensure they are safe for human consumption (Column A in Table 2 of paragraph (1) of this subsection) was greater than the applicable maximum contaminant level (MCL) in Chapter 290 of this title (relating to Public Drinking Water), then the MCL was used as the criterion.
- (I) If the concentration of a substance in fish tissue used for these calculations was greater than the applicable United States Food and Drug Administration Action Level for edible fish and shellfish tissue, then the acceptable concentration in fish tissue was lowered to the Action Level for calculation of criteria.
- (4) Human health criteria for additional toxic materials are adopted by the commission as appropriate.
- (5) Specific human health concentration criteria for water are applicable to water in the state that has sustainable fisheries or designation or use as a public drinking water supply or as a sole-source drinking water supply except within mixing zones and below stream flow conditions as specified in §307.8 of this title. The following waters are considered to have sustainable fisheries:
- (A) all designated segments listed in Appendix A of §307.10 of this title, unless specifically exempted;
- (B) perennial streams and rivers with a stream order of three or greater, as defined in §307.3 of this title (relating to Definitions and Abbreviations);
- (C) lakes and reservoirs greater than or equal to 150 acre-feet or 50 surface acres;
 - (D) all bays, estuaries, and tidal rivers; and
- (E) any other waters that potentially have sufficient fish production or fishing activity to create significant long-term human consumption of fish.
- (6) Waters that are not considered to have a sustainable fishery, but that have an aquatic life use of limited or greater, are considered to have an incidental fishery. Consumption rates assumed for incidental fishery waters are 1.75 grams per person per day. Therefore, numerical criteria applicable to incidental fishery waters are ten times the criteria listed in Column B in Table 2 of paragraph (1) of this subsection.

- (7) Specific human health criteria are applied as long term average exposure criteria designed to protect populations over a life time. Attainment measures for human health are addressed in §307.9 of this title.
- (8) For toxic materials of concern where specific human health criteria are not listed in Table 2 of paragraph (1) of this subsection, the following provisions apply:
- (A) For known or suspected carcinogens (as identified in EPA's IRIS database), a cancer risk of 10^{-5} (1 in 100,000) is applied to the most recent numerical criteria adopted by the EPA and published in the *Federal Register*. If an MCL or equivalent agency guideline for protection of drinking water sources is less than the resulting criterion, then the MCL applies to public drinking water supplies in accordance with paragraph (3)(H) of this subsection.
- (B) For toxic materials not defined as carcinogens, the most recent numerical criteria adopted by the EPA and published in the *Federal Register* are applicable. If an MCL or equivalent agency guideline for protection of drinking water sources is less than the resulting criterion, then the MCL applies to public drinking water supplies in accordance with paragraph (3)(H) of this subsection.
- (C) In the absence of available criteria, numerical criteria may be derived from technically valid information and calculated in accordance with the provisions of paragraph (3) of this subsection.
- (9) Numerical criteria for bioconcentratable pollutants are derived in accordance with the general procedures in the EPA guidance document entitled *Assessment and Control of Bioconcentratable Contaminants in Surface Water* (March 1991). The commission may develop discharge permit limits in accordance with the provisions of this section.
- (10) Numerical human health criteria are expressed as total recoverable concentrations for nonmetals and selenium and as dissolved concentrations for other metals and metalloids.
- (11) Additional site-specific factors may indicate that the numerical human health criteria listed in Table 2 of paragraph (1) of this subsection are inappropriate for a particular water body. These factors are applied as a site-specific standards modification in accordance with §307.2(d) of this title. The application of site-specific criteria must not impair an existing, attainable, presumed, or designated use or affect human health. Factors that may justify a temporary variance or site-specific standards amendment include the following:
- (A) background concentrations of specific toxics of concern in receiving waters, sediment, or indigenous biota;

- (B) persistence and degradation rate of specific toxic materials;
- (C) synergistic or antagonistic interactions of toxic substances with other toxic or nontoxic materials;
- (D) technological or economic limits of treatability for specific toxic materials;
 - (E) bioavailability of specific toxic substances of concern;
- (F) local water chemistry and other site-specific conditions that may alter the bioconcentration, bioaccumulation, or toxicity of specific toxic substances;
- (G) site-specific differences in the bioaccumulation responses of indigenous, edible aquatic organisms to specific toxic materials;
- (H) local differences in consumption patterns of fish and shellfish or drinking water, but only if any changes in assumed consumption rates are protective of the local population that frequently consumes fish, shellfish, or drinking water from a particular water body; and
 - (I) new information concerning the toxicity of a particular substance.
 - (e) Total toxicity.
- (1) Total (whole-effluent) toxicity of permitted discharges, as determined from biomonitoring of effluent samples at appropriate dilutions, must be sufficiently controlled to preclude acute total toxicity in all water in the state with the exception of small ZIDs at discharge points and at extremely low streamflow conditions (one-fourth of critical low-flow conditions) in accordance with §307.8 of this title. Acute total toxicity levels may be exceeded in a ZID, but there must be no significant lethality to aquatic organisms that move through a ZID, and the sizes of ZIDs are limited in accordance with §307.8 of this title. Chronic total toxicity, as determined from biomonitoring of effluent samples at appropriate dilutions, must be sufficiently controlled to preclude chronic toxicity in all water in the state with an existing or designated aquatic life use of limited or greater except in mixing zones at discharge points and at flows less than critical low-flows, in accordance with §307.8 of this title. Chronic toxicity levels may be exceeded in a mixing zone, but there must be no significant sublethal toxicity to aquatic organisms that move through the mixing zone.
 - (2) General provisions for controlling total toxicity.
- (A) Dischargers whose effluent has a significant potential for exerting toxicity in receiving waters as described in the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194) as amended are required to conduct whole effluent toxicity biomonitoring at appropriate dilutions.

(B) In addition to the other requirements of this section, the effluent of discharges to water in the state must not be acutely toxic to sensitive species of aquatic life, as demonstrated by effluent toxicity tests. Toxicity testing for this purpose is conducted on samples of 100% effluent, and the criterion for acute toxicity is mortality of 50% or more of the test organisms after 24 hours of exposure. This provision does not apply to mortality that is a result of an excess, deficiency, or imbalance of dissolved inorganic salts (such as sodium, calcium, potassium, chloride, or carbonate) that are in the effluent and are not listed in Table 1 of subsection (c)(1) of this section or that are in source waters.

(C) The latest revisions of the following EPA publications provide methods for appropriate biomonitoring procedures: *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, and the Technical Support Document for Water Quality-based Toxics Control. The use of other procedures approved by the agency and the EPA is also acceptable. Toxicity tests must be conducted using representative, sensitive aquatic organisms as approved by the agency, and any such testing must adequately determine if toxicity standards are being attained.*

(D) If toxicity biomonitoring results indicate that a discharge is not sufficiently controlled to preclude acute or chronic toxicity as described in this subsection, then the permittee will be required to eliminate sources of toxicity and may be required to conduct a toxicity reduction evaluation (TRE) in accordance with the permitting procedures of the commission. In accordance with the standards implementation procedures (RG-194), permits are amended to include appropriate provisions to eliminate toxicity. Such provisions may include total toxicity limits, chemical-specific limits, best management practices, or other actions (such as moving a discharge location) designed to reduce or eliminate toxicity. Where sufficient to attain and maintain applicable numeric and narrative state water quality standards, a chemical-specific limit, best management practices, or other actions designed to reduce or eliminate toxicity rather than a total toxicity limit may be established in the permit. Where conditions may be necessary to prevent or reduce effluent toxicity, permits must include a reasonable schedule for achieving compliance with such additional conditions.

(E) Discharge permit limits based on total toxicity may be established in consideration of site-specific factors, but the application of such factors must not result in impairment of an existing, attainable, presumed, or designated use. These factors are applied as a site-specific standards modification in accordance with §307.2(d) of this title. A demonstration that uses are protected may consist of additional effluent toxicity testing, instream monitoring requirements, or other necessary information as determined by the agency. Factors that may justify a temporary variance or site-specific standards amendment include the following:

- (i) background toxicity of receiving waters;
- (ii) persistence and degradation rate of principal toxic materials that are contributing to the total toxicity of the discharge;
- (iii) site-specific variables that may alter the impact of toxicity in the discharge;
- (iv) indigenous aquatic organisms, that may have different levels of sensitivity than the species used for total toxicity testing; and
- (v) technological, economic, or legal limits of treatability or control for specific toxic material.

§307.7. Site-Specific Uses and Criteria.

- (a) Uses and numerical criteria are established on a site-specific basis in Appendices A, B, D, E, F, and G of §307.10 of this title (relating to Appendices A G). Site-specific uses and numerical criteria may also be applied to unclassified waters in accordance with §307.4 of this title (relating to General Criteria) and §307.5(c) of this title (relating to Antidegradation). Site-specific criteria apply specifically to substances attributed to waste discharges or human activity. Site-specific criteria do not apply to those instances when surface waters exceed criteria due to natural phenomena. The application of site-specific uses and criteria is described in §307.8 of this title (relating to the Application of Standards) and §307.9 of this title (relating to the Determination of Standards Attainment).
 - (b) Appropriate uses and criteria for site-specific standards are defined as follows.
- (1) Recreation. Recreational use consists of five categories--primary contact recreation 1, primary contact recreation 2, secondary contact recreation 1, secondary contact recreation 2, and noncontact recreation waters. Classified segments are designated for primary contact recreation 1 unless sufficient site-specific information demonstrates that elevated concentrations of indicator bacteria frequently occur due to sources of pollution that cannot be reasonably controlled by existing regulations, wildlife sources of bacteria are unavoidably high and there is limited aquatic recreational potential, or primary or secondary contact recreation is considered unsafe for other reasons such as ship or barge traffic. In a classified segment where contact recreation is considered unsafe for reasons unrelated to water quality, a designated use of noncontact recreation may be assigned either noncontact recreation criteria or criteria normally associated with primary contact recreation. A designation of primary or secondary contact recreation is not a guarantee that the water so designated is completely free of disease-causing organisms. Indicator bacteria, although not generally pathogenic, are indicative of potential contamination by feces of warm blooded animals. Recreational criteria are based on these indicator bacteria

rather than direct measurements of pathogens. Criteria are expressed as the number of bacteria per 100 milliliters (mL) of water (in terms of colony forming units, most probable number, or other applicable reporting measures). Even where the concentration of indicator bacteria is less than the criteria for primary or secondary contact recreation, there is still some risk of contracting waterborne diseases. Additional guidelines on minimum data requirements and procedures for evaluating standards attainment are specified in the *TCEQ Guidance for Assessing and Reporting Surface Water Quality in Texas*, as amended.

(A) Freshwater.

(i) Primary contact recreation 1. The geometric mean criterion for *E. coli* is 126 per 100 mL. In addition, the single sample criterion for *E. coli* is 399 per 100 mL.

(ii) Primary contact recreation 2.

The geometric mean criterion for *E. coli* is 206 per 100 mL.

(iii) Secondary contact recreation 1.

The geometric mean criterion for *E. coli* is 630 per 100 mL.

(iv) Secondary contact recreation 2. The geometric mean criterion for *E. coli* is 1,030 per 100 mL.

(v) Noncontact recreation. The geometric mean criterion for $\it E.$ $\it coli$ is 2,060 per 100 mL.

(vi) For high saline inland water bodies where Enterococci is the designated recreational indicator in Appendix A of §307.10 of this title, Enterococci is the applicable recreational indicator for instream bacteria sampling at all times for the classified water body and for the unclassified water bodies that are within the watershed of that classified segment, unless it is demonstrated that an unclassified water body is not high saline. *E. coli* is the applicable recreational indicator for instream bacteria sampling at all times for unclassified water bodies where conductivity values indicate that the water bodies are not high saline. For high saline inland waters with primary contact recreation 1, the geometric mean criterion for Enterococci is 33 per 100 mL and the single sample criterion is 78 per 100 mL. For high saline inland waters with secondary contact recreation 1, the geometric mean criterion for Enterococci is 165 per 100 mL. For high saline inland waters with secondary contact recreation 2, the geometric mean criterion for Enterococci is 270 per 100 mL. For high saline inland water bodies with noncontact recreation, the geometric mean criterion for Enterococci is 540 per 100 mL.

(B) Saltwater.

(i) Primary contact recreation 1. The geometric mean criterion for Enterococci is 35 per 100 mL. In addition, the single sample criterion for Enterococci is 130 per 100 mL.

(ii) Secondary contact recreation 1. A secondary contact recreation 1 use for tidal streams and rivers can be established on a site-specific basis in §307.10 of this title if justified by a use-attainability analysis and the water body is not a coastal recreation water as defined in the Beaches Environmental Assessment and Coastal Health Act of 2000 (BEACH Act). The geometric mean criterion for Enterococci is 175 per 100 mL.

(iii) Noncontact recreation. A noncontact recreation use for tidal streams and rivers can be established on a site-specific basis in §307.10 of this title if justified by a use-attainability analysis and the water body is not a coastal recreation water, as defined in §307.3 of this title (relating to Definitions and Abbreviations). The geometric mean criterion for Enterococci is 350 per 100 mL.

(C) Swimming advisory programs. For areas where local jurisdictions or private property owners voluntarily provide public notice or closure based on water quality, the use of any single-sample or short-term indicators of recreational suitability are selected at the discretion of the local managers of aquatic recreation. Guidance for single-sample bacterial indicators is available in the EPA documents entitled *Recreational Water Quality Criteria* (EPA-820-F-12-058) and *Ambient Water Quality Criteria for Bacteria* – 1986 (EPA 440/5-84-002). Other short-term indicators to assess water quality suitability for recreation - such as measures of streamflow, turbidity, or rainfall - may also be appropriate.

(2) Domestic water supply.

(A) Use categories. Domestic water supply consists of three use subcategories - public water supply, sole-source surface drinking water supply, and aquifer protection.

(i) Public water supply. Segments designated for public water supply are those known to be used or exhibit characteristics that would allow them to be used as the supply source for public water systems as defined by Chapter 290 of this title (relating to Public Drinking Water).

(ii) Sole-source surface drinking water supplies and their protection zones. Water bodies that are sole-source surface drinking water supplies are listed in Appendix B of §307.10 of this title. Sole-source surface drinking water supplies and their protection zones are addressed in Chapter 321, Subchapter B of this title (relating to Concentrated Animal Feeding Operations).

(iii) Aquifer protection. Segments designated for aquifer protection are capable of recharging the Edwards Aquifer. The principal purpose of this

use designation is to protect the quality of water infiltrating into and recharging the aquifer. The designation for aquifer protection applies only to those portions of the segments so designated that are on the recharge zone, transition zone, or contributing zone as defined in Chapter 213 of this title (relating to the Edwards Aquifer). Chapter 213 of this title establishes provisions for activities in the watersheds of segments that are designated for aquifer protection.

(B) Use criteria. The following use criteria apply to all domestic water supply use subcategories.

(i) Radioactivity associated with dissolved minerals in the freshwater portions of river basin and coastal basin waters should not exceed levels established by drinking water standards as specified in Chapter 290 of this title unless the conditions are of natural origin.

(ii) Surface waters utilized for domestic water supply must not exceed toxic material concentrations that prevent them from being treated by conventional surface water treatment to meet drinking water standards as specified in Chapter 290 of this title.

(iii) Chemical and microbiological quality of surface waters used for domestic water supply should conform to drinking water standards as specified in Chapter 290 of this title.

(3) Aquatic life. The establishment of numerical criteria for aquatic life is highly dependent on desired use, sensitivities of aquatic communities, and local physical and chemical characteristics. Six subcategories of aquatic life use are established. They include minimal, limited, intermediate, high, and exceptional aquatic life and oyster waters. Aquatic life use subcategories designated for segments listed in Appendix A of §307.10 of this title recognize the natural variability of aquatic community requirements and local environmental conditions.

(A) Dissolved oxygen.

(i) The characteristics and associated dissolved oxygen criteria for limited, intermediate, high, and exceptional aquatic life use subcategories are indicated in Table 3 of this clause. This table also includes dissolved oxygen criteria for a minimal aquatic life use subcategory that applies to intermittent streams without perennial pools as indicated in §307.4(h)(4) of this title.

Figure: 30 TAC §307.7(b)(3)(A)(i)

TABLE 3 Aquatic Life Use Subcategories

	Dissolved	Oxygen Crite	eria, mg/L			Aquatic L	ife Attributes		
	Freshwater	Freshwater	Saltwater	Habitat	Species	Sensitive	Diversity	Species	Trophic
Aquatic Life	mean/	in Spring	mean/	Character-	Assemblage	species		Richness	Structure
Use	minimum	mean/	minimum	istics					
Subcategory		minimum							
Exceptional	6.0/4.0	6.0/5.0	5.0/4.0	Outstanding natural variability	Exceptional or unusual	Abundant	Exceptionally high	Exceptionally high	Balanced
High	5.0/3.0	5.5/4.5	4.0/3.0	Highly diverse	Usual association of regionally expected species	Present	High	High	Balanced to slightly imbalanced
Intermediate	4.0/3.0	5.0/4.0	3.0/2.0	Moderately diverse	Some expected species	Very low in abundance	Moderate	Moderate	Moderately imbalanced
Limited	3.0/2.0	4.0/3.0		Uniform	Most regionally expected species absent	Absent	Low	Low	Severely imbalanced
Minimal	2.0/1.5								

- Dissolved oxygen means are applied as a minimum average over a 24-hour period.
- 24-hour minimum dissolved oxygen concentrations are not to extend beyond eight hours per 24-hour day. Lower dissolved oxygen minima may apply on a site-specific basis, when natural daily fluctuations below the mean are greater than the difference between the mean and minima of the appropriate criteria.
- Spring criteria to protect fish spawning periods are applied during that portion of the first half of the year when water temperatures are 63.0°F to 73.0°F.
- Procedures to support aquatic life attributes are described in the standards implementation procedures (RG-194) chapter "Determining Water Quality Uses and Criteria" as amended.
- Dissolved oxygen analyses and computer models to establish effluent limits for permitted discharges are normally applied to mean criteria at steady-state, critical conditions.
- Determination of standards attainment for dissolved oxygen criteria is specified in §307.9(e)(6) of this title (relating to Determination of Standards Attainment).
- Minimal aquatic life use has been historically known as no significant aquatic life use. Typically, the classification of a water body as supporting a minimal aquatic life use is based on flow characteristics (intermittent stream without perennial pools), as set forth in §304.4(h)(4) of this title, and not on aquatic life attributes.

(ii) Critical low-flow values associated with the bedslopes and dissolved oxygen criteria in Table 4 of this clause apply to streams that have limited, intermediate, high, or exceptional aquatic life uses and to streams that are specifically listed in Appendix A or D of §307.10 of this title. The critical low-flow values in Table 4 of this clause apply to streams in Texas that are east of a line defined by Interstate Highways 35 and 35W from the Red River to the community of Moore in Frio County, and by US Highway 57 from the community of Moore to the Rio Grande. Table 4 of this clause does not apply where specifically superseded by the equation that is listed in footnote 3 in the Cypress Creek Basin in Appendix A and in footnote 2 in Appendix D of §307.10 of this title. The critical low-flow values in Table 4 of this clause (at the appropriate stream bedslope) are utilized as headwater flows when the flows are larger than applicable seven-day, two-year low-flows in order to determine discharge effluent limits necessary to achieve dissolved oxygen criteria. For streams that have bedslopes less than the minimum bedslopes in Table 4 of this clause, the flows listed for the minimum bedslope of 0.1 meters per kilometer (m/km) are applicable. For streams that have bedslopes greater than the maximum bedslope in Table 4 of this clause, the flows listed for the maximum bedslope of 2.4 m/km are applicable. The required effluent limits are those necessary to achieve each level of dissolved oxygen (as defined in Table 3 of clause (i) of this subparagraph) at or below an assigned, designated, or presumed aquatic life use. Presumed aquatic life uses must be in accordance with those required by §307.4(h) of this title. The critical low-flow values in Table 4 of this clause do not apply to tidal streams.

Figure: 30 TAC §307.7(b)(3)(A)(ii)

TABLE 4

Critical low-flow values for dissolved oxygen for the eastern and southern Texas ecoregions as described in §307.7(b)(3)(A)(ii).

Bedslope	Bedslope 6.0 DO		4.0 DO	3.0 DO		
(m/km)	(cfs)	(cfs)	(cfs)	(cfs)		
0.1	*	18.3	3.0	0.5		
0.2	*	7.7	1.3	0.2		
0.3	28.6	4.7	0.8	0.1		
0.4	20.0	3.3	0.5	0.1		

0.5	15.2	2.5	0.4	0.1
0.6	12.1	2.0	0.3	0.1
0.7	10.0	1.6	0.3	0.0
0.8	8.4	1.4	0.2	0.0
0.9	7.3	1.2	0.2	0.0
1.0	6.4	1.0	0.2	0.0
1.1	5.7	0.9	0.2	0.0
1.2	5.1	0.8	0.1	0.0
1.3	4.6	0.8	0.1	0.0
1.4	4.2	0.7	0.1	0.0
1.5	3.9	0.6	0.1	0.0
1.6	3.6	0.6	0.1	0.0
1.7	3.3	0.5	0.1	0.0
1.8	3.1	0.5	0.1	0.0
2.1	2.5	0.4	0.1	0.0
2.4	2.2	0.4	0.1	0.0

^{*} Flows are beyond the observed data used in the regression equation.

Dissolved oxygen criteria in this table are in mg/L and apply as 24-hour averages; associated minimum criteria are listed in Table 3 of clause (i) of this subparagraph.

Dissolved oxygen criteria in this table apply at all stream flows at or above the indicated stream flow for each category.

(iii) The critical low-flow values in Table 4 of clause (ii) of this subparagraph for limited, intermediate, high, and exceptional aquatic life uses are based upon data from the commission's least impacted stream study (Texas Aquatic Ecoregion Project). Results of this study indicate a strong dependent relationship for average summertime background dissolved oxygen concentrations and several hydrologic and physical stream characteristics - particularly bedslope (stream gradient) and stream flow. The critical low-flow values in Table 4 of clause (ii) of this subparagraph are derived from a multiple regression equation for the eastern portion of Texas as defined in clause (ii) of this subparagraph. Further explanation of the development of the regression equation and its application are contained in the standards implementation procedures as amended.

(iv) The critical low-flow values in Table 4 of clause (ii) of this subparagraph may be adjusted based on site-specific data relating dissolved oxygen concentrations to factors such as flow, temperature, or hydraulic conditions in accordance with the standards implementation procedures as amended. Site-specific, critical low-flow values require approval by the commission. The EPA must review any site-specific, critical low-flow values that could affect permits or other regulatory actions that are subject to approval by EPA. Critical low-flow values that have been determined for particular streams are listed in the standards implementation procedures.

(B) Oyster waters.

(i) A 1,000 foot buffer zone, measured from the shoreline at ordinary high tide, is established for all bay and gulf waters except those contained in river or coastal basins as defined in §307.2 of this title (relating to Description of Standards). Recreational criteria for indicator bacteria, as specified in §307.7(b)(1) of this title (relating to Site-Specific Uses and Criteria), are applicable within buffer zones.

(ii) The criteria for median fecal coliform concentration in bay and gulf waters, exclusive of buffer zones, are 14 colonies per 100 mL with not more than 10% of all samples exceeding 43 colonies per 100 mL.

(iii) Oyster waters should be maintained so that concentrations of toxic materials do not cause edible species of clams, oysters, and mussels to exceed accepted guidelines for the protection of public health. Guidelines are provided by the United States Food and Drug Administration Action Levels for molluscan shellfish, but additional information related to human health protection may also be considered in determining acceptable toxic concentrations.

(4) Additional criteria.

- (A) Chemical parameters. Site-specific criteria for chloride, sulfate, and total dissolved solids are established as averages over an annual period for either a single sampling point or multiple sampling points.
- (B) pH. Site-specific numerical criteria for pH are established as absolute minima and maxima.
- (C) Temperature. Site-specific temperature criteria are established as absolute maxima.
- (D) Toxic materials. Criteria for toxic materials are established in §307.6 of this title (relating to Toxic Materials).
- (E) Nutrient criteria. Numeric and narrative criteria to preclude excessive growth of aquatic vegetation are intended to protect multiple uses such as primary, secondary, and noncontact recreation, aquatic life, and public water supplies. Nutrient numeric criteria for specific reservoirs, expressed as concentrations of chlorophyll *a* in water, are listed in Appendix F of §307.10 of this title.
- (5) Additional uses. Other basic uses, such as navigation, agricultural water supply, industrial water supply, seagrass propagation, and wetland water quality functions must be maintained and protected for all water in the state where these uses can be achieved.

§307.8. Application of Standards.

- (a) Flow conditions.
 - (1) The following standards do not apply below critical low-flows:
- (A) site-specific criteria for dissolved oxygen, pH, temperature, and numerical chronic criteria for toxic materials, as listed in Appendices A, D, and E of §307.10 of this title (relating to Appendices A G);
- (B) numerical chronic criteria for toxic materials as established in §307.6 of this title (relating to Toxic Materials);
- (C) total chronic toxicity restrictions as established in §307.6 of this title;
- (D) maximum temperature differentials as established in §307.4(f) of this title (relating to General Criteria); and

- (E) dissolved oxygen criteria for unclassified waters, as established in §307.4(h) of this title and §307.7(b)(3) of this title (relating to Site-Specific Uses and Criteria).
- (2) Critical low-flows for streams or rivers that are dominated by springflow are listed in the standards implementation procedures as amended and are calculated as follows:
- (A) for springflow-dominated streams or rivers that contain federally listed endangered or threatened aquatic or aquatic dependent species, the critical low-flow value is the 0.1 percentile value derived from a lognormal distribution for the period of record at the nearest United States Geological Survey (USGS) or International Boundary and Water Commission (IBWC) gauging station;
- (B) for springflow-dominated streams or rivers that do not contain federally listed endangered or threatened species, the critical low-flow value is the 5th percentile value of the flow data for the period of record at the nearest USGS or IBWC gauging station.
- (3) Numerical acute criteria for toxic materials and preclusion of total acute toxicity as established in §307.6 of this title are applicable at stream flows that are equal to or greater than one-fourth of critical low-flows.
- (4) Harmonic mean flow is the applicable upstream flow when calculating wastewater permit limits for criteria that are assessed as long-term means, such as criteria for total dissolved solids, chloride, sulfate in Appendix A of §307.10 of this title, and human health toxic criteria in Table 2 of §307.6(d)(1) of this title. These criteria are applicable at all flow conditions except as specified for the applicability of assessment data in §307.9 of this title (relating to Determination of Standards and Attainment).
- (5) Critical low-flows and harmonic mean flows for some classified segments are listed in the standards implementation procedures as amended. These critical low-flows are not for the purpose of regulating flows in water bodies in any manner or requiring that minimum flows be maintained in classified segments.
- (6) Critical low-flows and harmonic mean flows listed in the standards implementation procedures as amended apply only to river basin and coastal basin waters. They do not apply to bay waters, gulf waters, reservoirs, or estuaries.
- (7) Critical low-flows and harmonic mean flows in the standards implementation procedures as amended were calculated from historical USGS or IBWC

daily streamflow records. If the calculated critical low-flow or harmonic mean flow value was equal to or less than 0.1 cubic foot per second (cfs), it was rounded up to 0.1 cfs.

- (8) Flow values are periodically recomputed to reflect alterations in the hydrologic characteristics of a segment, including reservoir construction, climatological trends, and other phenomena.
- (9) The general criteria are applicable at all flow conditions except as specified in this section or in §307.4 of this title.
- (b) Mixing zones. A reasonable mixing zone is allowed at the discharge point of permitted discharges into surface water in the state, in accordance with the following provisions.
- (1) The following portions of the standards do not apply within mixing zones:
- (A) site-specific criteria, as defined in §307.7 of this title and listed in Appendices A, D, E, F, and G of §307.10 of this title;
- (B) numerical chronic aquatic life criteria for toxic materials as established in §307.6 of this title;
- (C) total chronic toxicity restrictions as established in §307.6 of this title;
- (D) maximum temperature differentials as established in $\S 307.4(f)$ of this title;
- (E) dissolved oxygen criteria for unclassified waters, as established in §307.4(h) of this title;
- (F) dissolved oxygen criteria for intermittent streams, as established in §307.4(h)(4) of this title;
- (G) aquatic recreation criteria for unclassified waters, as established in §307.4(j) of this title and in §307.7(b)(1) of this title;
- (H) specific human health criteria for concentrations in water to prevent contamination of drinking water, fish and shellfish so as to ensure safety for human consumption, as established in §307.6 of this title.

- (2) Numerical acute aquatic life criteria for toxic materials and preclusion of total acute toxicity as established in §307.6 of this title are applicable in mixing zones. Acute criteria and acute total toxicity levels may be exceeded in small zones of initial dilution (ZIDs) at discharge points of permitted discharges, but there must be no lethality to aquatic organisms that move through a ZID. ZIDs must not exceed the following sizes:
- (A) 60 feet downstream and 20 feet upstream from a discharge point in a stream and river. In addition, ZIDs in streams and rivers must not encompass more than 25% of the volume of stream flow at or above seven-day, two-year low-flow conditions;
- (B) a 25-foot radius in all directions (or equivalent volume or area for diffuser systems) from a discharge point in a lake or reservoir; and
- (C) a 50-foot radius in all directions (or equivalent volume or area for diffuser systems) from a discharge point in a bay, a tidal river, an estuary, or the Gulf of Mexico.
- (3) Provisions of the general criteria in §307.4 of this title remain in effect in mixing zones unless specifically exempted in this section.
- (4) Water quality standards do not apply to treated effluent at the immediate point of discharge prior to any contact with either ambient waters or a dry streambed. However, effluent total toxicity requirements may be specified to preclude acute lethality near discharge points, or to preclude acute and chronic instream toxicity.
- (5) Where a mixing zone is defined in a valid permit of the Texas Commission on Environmental Quality, the Railroad Commission of Texas, or the United States Environmental Protection Agency, the mixing zone defined in the permit must apply.
- (6) Mixing zones must not preclude passage of free-swimming or drifting aquatic organisms to the extent that aquatic life use is significantly affected, in accordance with guidelines specified in the standards implementation procedures as amended.
- (7) Mixing zones must not overlap unless it can be demonstrated that no applicable standards will be violated in the area of overlap. Existing and designated uses must not be impaired by the combined impact of a series of contiguous mixing zones.

- (8) Mixing zones must not encompass an intake for a domestic drinking water supply. Thermal mixing zones are excepted from this provision unless elevated temperatures adversely affect drinking water treatment.
- (9) Mixing zones must be individually specified for all permitted domestic discharges with a permitted monthly average flow equal to or exceeding one million gallons per day and for all permitted industrial discharges to water in the state (excepting discharges that consist entirely of stormwater runoff). For domestic discharges with permitted monthly average flows less than one million gallons per day, a small mixing zone must be assumed in accordance with guidelines for mixing zone sizes specified in the standards implementation procedures as amended; and the commission may require specified mixing zones as appropriate.
- (10) Different mixing zone sizes for specific numeric criteria, such as for the protection of human health, aquatic life, and temperature, may be specified in a wastewater permit.
- (c) Minimum analytical levels. The specified definition of permit compliance for a specific toxic material must not be lower than established minimum analytical levels, unless that toxic material is of particular concern in the receiving waters, or unless an effluent specific method detection limit has been developed in accordance with 40 Code of Federal Regulations Part 136. Minimum analytical levels are listed in the standards implementation procedures as amended.
- (d) Once-through cooling water discharges. When a discharge of once-through cooling water does not measurably alter intake concentrations of a pollutant, then water-quality based effluent limits for that pollutant are not required. For facilities that intake and discharge cooling water into different water bodies, this provision only applies if water quality and applicable water quality standards in the receiving water are maintained and protected.
- (e) Stormwater discharges. Pollution in stormwater must not impair existing or designated uses. Controls on the quality of stormwater discharges must be based on best management practices, technology-based limits, or both in combination with instream monitoring to assess standards attainment and to determine if additional controls on stormwater quality are needed. The standards implementation procedures as amended describe how water quality standards are applied to Texas Pollutant Discharge Elimination System stormwater discharges. The evaluation of instream monitoring data for standards attainment includes the effects of stormwater, as described in §307.9 of this title.

§307.9. Determination of Standards Attainment.

- (a) General standards attainment sampling and assessment procedures. The procedures listed in this section are solely for the purposes of assessing water quality monitoring data to determine if water quality standards are attained in individual water bodies. Unless otherwise stated in this chapter, additional details concerning sampling procedures for the measurement, collection, preservation and laboratory analysis of water quality samples are provided in the Texas Commission on Environmental Quality (TCEQ) Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods (RG-415) as amended, the most recently published edition of the book entitled Standard Methods for the Examination of Water and Wastewater, 40 Code of Federal Regulations (CFR) Part 136, or other reliable sources acceptable to the commission. Laboratory accreditation requirements are specified in Chapter 25 of this title (relating to Environmental Testing Laboratory Accreditation and Certification). Unless otherwise stated in this chapter, additional details concerning how sampling data are evaluated to assess standards compliance are provided in the TCEQ Guidance for Assessing and Reporting Surface Water Quality in Texas as amended.
- (b) Samples to determine standards attainment are collected at locations approved by the commission. Samples collected at non-approved locations may be accepted at the discretion of the commission. Samples to determine standards attainment in ambient water must be representative in terms of location, seasonal variations, and hydrologic conditions. Locations must be typical of significant areas of a water body. Temporal sampling must be sufficient to appropriately address seasonal variations of concern. Sample results that are used to assess standards attainment must not include samples that are collected during extreme hydrologic conditions such as high-flows and flooding immediately after heavy rains. Further guidance on representative sampling, both spatially, temporally, and hydrologically, can be found in the TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods (RG-415), Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat (RG-416), and the TCEQ Guidance for Assessing and Reporting Surface Water Quality in Texas as amended.
 - (c) Collection and preservation of water samples.
- (1) For the purposes of assessing standards attainment, samples are collected and preserved in accordance with procedures set forth in the most recently published edition of the book entitled *Standard Methods for the Examination of Water and Wastewater*, the TCEQ *Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods* (RG-415) as amended, 40 CFR Part 136, or other reliable procedures acceptable to the commission.

(2) Bacterial and temperature determinations must be conducted on samples or measurements taken at or near the surface in accordance with the TCEQ Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods (RG-415) as amended. Depth collection procedures for chloride, sulfate, total dissolved

EPA has not approved the proposed revision in 307.9(c)(2). Text in strikethrough has not been approved for CWA purposes.

solids, dissolved oxygen, chlorophyll *a*, and pH to determine standards attainment may vary depending on the water body being sampled. Standards for chloride, sulfate, total dissolved solids, dissolved oxygen, chlorophyll *a*, pH are applicable to the mixed surface layer, but a single sample taken near the surface normally provides an adequate representation of these parameters. When the water column is entirely mixed according to determinations described in TCEQ *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended, standards may apply to any sample taken in the water column for parameters indicated in this section.

(3) For toxic materials, numerical aquatic life criteria are applicable to water samples collected at any depth. Numerical human health criteria are applicable to the average (arithmetic) concentration from the surface to the bottom. For the purposes of standards attainment for aquatic life protection and human health protection, samples that are collected at approximately one foot below the water surface are acceptable for assessing standards attainment of numerical criteria.

(d) Sample analysis.

- (1) Numerical criteria. Procedures for laboratory analysis must be in accordance with the most recently published edition of the book entitled *Standard Methods for the Examination of Water and Wastewater*, the TCEQ *Surface Water Quality Monitoring Procedures, Volume 1: Physical and Chemical Monitoring Methods* (RG-415) as amended, 40 CFR Part 136, or other reliable procedures acceptable to the commission, and in accordance with Chapter 25 of this title.
- (2) Radioactivity. Measurements must be made on filtered samples to determine radioactivity associated with dissolved minerals in accordance with current analytical methodology approved by the EPA.
- (3) Toxicity. Bioassay techniques must be selected as testing situations dictate but are generally conducted using representative sensitive organisms in accordance with §307.6 of this title (relating to Toxic Materials).
 - (e) Sampling periodicity and evaluation.

(1) Chloride, sulfate, total dissolved solids. Standards attainment determinations to demonstrate compliance with the annual average may be based on the long term mean in accordance with TCEQ *Guidance for*

EPA has not approved the proposed revisions in 307.9(e)(1). Text in strikethrough has not been approved for CWA purposes.

Assessing and Reporting Surface Water Quality in Texas as amended. Results from all monitoring stations within the segment are used to allow for reasonable parametric gradients. Total dissolved solids determinations may be based on measurements of specific conductance.

(2) Radioactivity. The impact of radioactive sources on surface waters must be evaluated in accordance with Chapter 336 of this title (relating to Radioactive Substance Rules), and in accordance with Chapter 290 of this title (relating to Public Drinking Water).

(3) Bacteria.

- (A) For coastal recreation waters, as defined in §307.3 of this title (relating to Definitions and Abbreviations), standards attainment must be based on a geometric mean or a single sample criterion. Data are evaluated in accordance with §307.7(b)(1) of this title (relating to Site-Specific Uses and Criteria).
- (B) For inland waters (tidal rivers, high saline inland waters, and freshwater), and other non-coastal recreation waters, standards attainment must be based on a long-term geometric mean of applicable samples in accordance with the TCEQ's *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended. Data are evaluated in accordance with §307.7(b)(1) of this title.
- (C) Samples may be evaluated with the single sample criterion for the purposes of swimmer safety notification programs and wastewater permit compliance.
- (D) Determination of attainment may account for statistical variability to reduce uncertainty in evaluations in accordance with the TCEQ's Guidance for Assessing and Reporting Surface Water Quality in Texas.
- (4) Toxic materials. Standards attainment must be evaluated in accordance with §307.6 of this title, and in accordance with §307.8 of this title (relating to Application of Standards). To protect aquatic life, specific numerical acute toxic criteria are applied as 24-hour averages, and specific numerical chronic toxic criteria are applied as seven-day averages. Human health criteria are applied as long-term average exposure criteria designed to protect populations over a life time. Standards attainment for acute and chronic toxic criteria for aquatic life and human health criteria must be in accordance with the TCEQ *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended. Standards attainment for human health criteria must be based on the mean of samples collected in accordance with the TCEQ *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended.

(5) Temperature and pH. Standards attainment must be in accordance with the TCEQ *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended.

(6) Dissolved oxygen.

(A) Criteria for daily (24-hour) average concentrations must be compared to a time-weighted average of measurements taken over a 24-hour period in accordance with TCEQ *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended.

(B) Criteria for minimum concentrations must be compared to individual measurements in accordance with TCEQ *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended. When data are collected over a 24-hour period, the lowest measurement observed during that 24-hour period is compared to the applicable minimum criterion.

(7) Assessment of chlorophyll *a* criteria in reservoirs. Procedures to determine standards attainment for chlorophyll *a* criteria in reservoirs must be in accordance with the TCEQ *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended, including the evaluation of multiple uses as indicated in \$307.7(b)(4) of this title. Chlorophyll *a* criteria in individual

EPA has not approved the proposed revisions in 307.9(e)(7). Language in the 2014 standards remain in effect for CWA purposes.

reservoirs are found in Appendix F of §307.10 of this title (relating to Appendices A - G). The data for the assessment must be collected at the sampling stations used for calculating the criteria, as listed in Appendix F of §307.10 of this title, or from comparable stations in the main pool of the reservoir. Assessment values indicated in the TCEQ Guidance for Assessing and Reporting Surface Water Quality in Texas are to be used for assessment purposes only and are not to be used as water quality based effluent limits in wastewater discharge permits for wastewater permitting.

- (8) Site-specific criteria for aquatic recreation (geometric mean), total dissolved solids, chloride, and sulfate as established in Appendix A of §307.10 of this title, and human health criteria as established in Table 2 of §307.6(d)(1) of this title do not apply in the following stream types and flow conditions:
- (A) perennial streams when flows are below 0.1 cubic feet per second;
- (B) intermittent streams when less than 20% of the stream bed of a 500 meter sampling reach is covered by pools; or when extremely dry conditions are indicated by comparable observations of flow severity.

- (f) Biological integrity. Biological integrity, which is an essential component of the aquatic life categories defined in §307.7(b)(3) of this title, is assessed by sampling the aquatic community. Attainment of biological integrity is assessed by indices of biotic integrity that are described in the TCEQ *Surface Water Quality Monitoring Procedures, Volume 2: Methods for Collecting and Analyzing Biological Assemblage and Habitat Data* (RG-416) as amended. Determination of attainment may account for statistical variability to reduce uncertainty in evaluations in accordance with TCEQ *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended. Primary criteria associated with assessing the attainment of aquatic life uses are indices of biotic integrity and criteria for dissolved oxygen. When the appropriate aquatic life use as determined by the use-attainability study is less stringent than the presumed high use, then the appropriate aquatic life use and dissolved oxygen criteria are listed in Appendix D of §307.10 of this title after approval by EPA.
- (g) Additional parameters. Assessment of narrative criteria parameters must be performed in accordance with the TCEQ *Guidance for Assessing and Reporting Surface Water Quality in Texas* as amended.

§307.10. Appendices A - G.

The following appendices are integral components of this chapter of the Texas Surface Water Quality Standards.

- (1) Appendix A Site-specific Uses and Criteria for Classified Segments
- (2) Appendix B Sole-source Surface Drinking Water Supplies
- (3) Appendix C Segment Descriptions
- (4) Appendix D Site-specific Uses and Criteria for Unclassified Water Bodies
- (5) Appendix E Site-specific Toxic Criteria
- (6) Appendix F Site-specific Nutrient Criteria for Selected Reservoirs
- (7) Appendix G Site-specific Recreational Uses and Criteria for Unclassified Water Bodies

Appendix A - Site-specific Uses and Criteria for Classified Segments

The following tables identify the water uses and supporting numerical criteria for each of the state's classified segments. The tables are ordered by basin with the segment number and segment name given for each classified segment. Marine segments are those that are specifically tit led as "tidal" in the segment name, plus all bays, estuaries and the Gulf of Mexico. The following descriptions denote how each numerical criterion is used subject to the provisions in §307.7 of this title (relating to Site-Specific Uses and Criteria), §307.8 of this title (relating to Application of Standards), and §307.9 of this title (relating to Determination of Standards Attainment).

Segments that include reaches that are dominated by springflow are footnoted in this appendix and have critical low-flows calculated according to §307.8(a)(2) of this title. These critical low-flows apply at or downstream of the spring(s) providing the flows. Critical low-flows upstream of these springs may be considerably smaller. Critical low-flows used in conjunction with the TCEQ regulatory actions (such as discharge permits) may be adjusted based on the relative location of a discharge to a gauging station.

The criteria for Cl^{-1} (chloride), SO_4^{-2} (sulfate), and TDS (total dissolved solids) are listed in this appendix as maximum annual averages for the segment.

Dissolved oxygen criteria are listed as minimum 24-hour means at any site within the segment. Absolute minima and seasonal criteria are listed in §307.7 of this title unless otherwise specified in this appendix. Dissolved oxygen criteria of 1.0 mg/L in this appendix will be considered minimum values at any time.

The pH criteria are listed as minimum and maximum values expressed in standard units at any site within the segment.

The freshwater indicator bacteria for recreation is *E. coli*. Enterococci is the indicator bacteria for recreation in saltwater and certain high saline inland water bodies with typical high conductivity values. The appropriate bacterial criteria are listed in the appendix under the Indicator Bacteria column and are applied as specified in §307.7(b)(1) of this title. The indicator bacteria for suitability for oyster waters is fecal coliform. The fecal coliform criteria for oyster waters is 14 colonies per 100 mL as specified in §307.7(b)(3)(B) of this title.

The criteria for temperature are listed as maximum values at any site within the segment except as noted in §307.4(h) of this title (relating to General Criteria) and §307.8(b) of this title.

Footnotes are defined at the end of each basin or bay and estuary table, as appropriate.

Canadian River Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Canadian River Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
0101	Canadian River Below Lake Meredith	PCR1	Н			1,975	760	5,000	5.0	6.5-9.0	126	95
0102	Lake Meredith	PCR1	E	PS		400	350	1,300	6.0	6.5-9.0	126	85
	Canadian River Above Lake											
0103	Meredith	PCR1	Н			1,050	540	4,500	5.0	6.5-9.0	126	95
0104	Wolf Creek	PCR1	Н			420	125	1,125	5.0	6.5-9.0	126	93
0105	Rita Blanca Lake	NCR	L		WF^2	200	200	1,000	3.0	6.5-9.0	126	85

- 1 The indicator bacteria for freshwater is *E. coli*.
- 2 The segment is designated as high quality waterfowl habitat.

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EPA is reviewing and has not approved the revised minerals criteria for segment 0211. Criteria from 2010 standards (250 mg/L chloride and 50 mg/L sulfate) remain in effect for CWA purposes.

Red River Basin Designated Uses and Numeric Criteria

	Red River basin Designated O	oco ana ma				1	1		D: 1 1	**	T 11 .	
	n. In' n '	D	Aquatic	Domestic	0.1	Ch.	CO -2	TDC	Dissolved	pН	Indicator	T
Segment	Red River Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO ₄ -2	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
0201	Lower Red River	PCR1	H	PS		375	250	1,100	5.0	6.5-9.0	126	93
0202	Red River Below Lake Texoma	PCR1	H	PS		375	250	1,100	5.0	6.5-9.0	126	93
0203	Lake Texoma	PCR1	Н	PS		600	300	1,500	5.0	6.5-9.0	126	92
0204	Red River Above Lake Texoma	PCR1	Н			2,000	1,200	6,000	5.0	6.5-9.0	33	93
0205	Red River Below Pease River	PCR1	Н			5,000	2,000	10,000	5.0	6.5-9.0	33	93
0206	Red River Above Pease River	PCR1	Н			12,000	4,000	25,000	5.0	6.5-9.0	33	93
	Lower Prairie Dog Town Fork Red	PCR1										
0207	River		Н			37,000	5,300	46,200	5.0	6.5-9.0	33	93
0208	Lake Crook	PCR1	Н	PS		75	150	350	5.0	6.5-9.0	126	90
0209	Pat Mayse Lake	PCR1	Н	PS		100	175	350	5.0	6.5-9.0	126	90
0210	Farmers Creek Reservoir	PCR1	Н	PS		200	60	550	5.0	6.5-9.0	126	93
0211	Little Wichita River	PCR1	Н	PS		450	250	500	3.02	6.5-9.0	126	91
0212	Lake Arrowhead	PCR1	Н	PS		250	50	500	5.0	6.5-9.0	126	93
0213	Lake Kickapoo	PCR1	Н	PS		100	50	400	5.0	6.5-9.0	126	90
0214	Wichita River Below Diversion Lake	PCR1	Н			1,800	800	5,000	5.0	6.5-9.0	126	90
0215	Diversion Lake	PCR1	Н			1,800	1,100	5,000	5.0	6.5-9.0	126	90
0216	Wichita River Below Lake Kemp	PCR1	Н			1,925	960	5,000	5.0	6.5-9.0	126	90
0217	Lake Kemp³	PCR1	H			7,000	2,500	15,000	5.0	6.5-9.0	33	93
0218	Wichita/North Fork Wichita River ⁴	PCR1	Н			7,500	2,800	16,250	5.0	6.5-9.0	33	93
0219	Lake Wichita	PCR1	Н			1,000	400	1,800	5.0	6.5-9.0	126	90
0220	Upper Pease/North Fork Pease River	PCR1	Н			12,000	3,500	30,000	5.0	6.5-9.0	33	91
0221	Middle Fork Pease River	PCR1	Н			870	1,400	2,800	5.0	6.5-9.0	126	91
0222	Salt Fork Red River	PCR1	Н			400	1,400	3,000	5.0	6.5-9.0	126	93
0223	Greenbelt Lake	PCR1	Н	PS		250	200	750	5.0	6.5-9.0	126	93
0224	North Fork Red River	PCR1	Н			800	1,200	2,500	5.0	6.5-9.0	126	91
0225	McKinney Bayou	PCR1	L	PS		60	90	400	3.0	6.0-8.5	126	93
0226	South Fork Wichita River ³	PCR1	Н			12,000	3,650	31,000	5.0	6.5-9.0	33	93
0227	South Fork Pease River	PCR1	Н			270	200	1,000	5.0	6.5-9.0	126	91
0228	Mackenzie Reservoir	PCR1	Н	PS		50	200	500	5.0	6.5-9.0	126	90
	Upper Prairie Dog Town Fork Red	PCR1										
0229	River	_	Н			350	675	2,000	5.0	6.5-9.0	126	93
0230	Pease River	PCR1	I			12,000	3,500	30,000	4.0	6.5-9.0	33	91

- The indicator bacteria for freshwater is *E. coli*. The indicator bacteria for Segments 0204, 0205, 0206, 0207, 0217, 0218, 0220, 0226, and 0230 is Enterococci.
- 2 The 24-hour minimum dissolved oxygen criterion is 2.0 mg/L.
- It is anticipated that inorganic chemical quality should improve following completion and as a result of the operation of salinity control projects.
- The critical low-flow is calculated according to §307.8(a)(2)(B) of this title.

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EPA is reviewing and has not approved the limited aquatic life use for the invertebrate community in segment 0305 or the new minerals criteria in segment 0307. EPA has also not approved revised pH criteria in segment 0302. The 2010 pH range (6.0-8.5) remains in effect for CWA purposes.

Sulphur River Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Sulphur River Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
	Sulphur River Below Wright Patman								5.0			
0301	Lake	PCR1	H			120	100	500		6.0-8.5	126	90
0302	Wright Patman Lake	PCR1	H	PS		75	75	400	5.0	6.5-9.5	126	90
0303	Sulphur/South Sulphur River	PCR1	Н			80	180	600	5.0	6.0-8.5	126	93
0304	Days Creek	PCR1	I			525	75	850	4.0	6.0-8.5	126	90
0305	North Sulphur River ^{2,3}	PCR1	I^2			190	475	1,320	5.0	6.0-8.5	126	93
0306	Upper South Sulphur River	PCR1	I			80	180	600	4.0	6.5-9.0	126	93
0307	Jim L. Chapman Lake	PCR1	H	PS		50	50	225	5.0	6.5-9.0	126	93

1 The indicator bacteria for freshwater is *E. coli*.

- For the purpose of assessment, the intermediate aquatic life use applies only to the fish community. The benthic community is to be assessed using a limited aquatic life use.
- The segment is an intermittent stream with perennial pools.

EPA <u>disapproved</u> footnote 2 in the 2010 WQS, which states that the macroinvertebrate community should be assessed as a limited aquatic life use. This language is not effective for CWA purposes. EPA is reviewing footnote 2 which was resubmitted in the 2014 WQS. The intermediate aquatic life use for segment 0305 is approved and effective for CWA purposes.

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EPA is reviewing and has not approved the new minerals criteria in segment 0410. EPA has not approved the revised recreation use for segment 0404. The previous use, PCR1, remains in effect for CWA purposes.

Cypress Creek Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Cypress Creek Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
0401	Caddo Lake	PCR1	Н	PS		50	50	200	5.0	5.5-9.0	126	90
	Big Cypress Creek Below Lake O' the											
0402	Pines	PCR1	Н	PS		100	50	300	5.0	5.5-8.0	126	93
0403	Lake O' the Pines	PCR1	Н	PS		80	50	300	5.0	6.0-8.5	126	93
	Big Cypress Creek Below Lake Bob	SCR1									630	
0404	Sandlin		I			100	100	500	4.0	6.0-8.5		90
0405	Lake Cypress Springs	PCR1	Н	PS		100	100	500	5.0	6.0-8.5	126	93
0406	Black Bayou ²	PCR1	Н	PS		80	50	300	≤5.0 ³	5.5-8.0	126	90
0407	James' Bayou ²	PCR1	Н	PS		100	50	300	≤5.0³	5.5-8.0	126	90
0408	Lake Bob Sandlin	PCR1	Н	PS		50	65	150	5.0	6.5-9.0	126	90
0409	Little Cypress Bayou (Creek)	PCR1	Н	PS		100	50	300	≤5.0³	5.5-8.5	126	90
0410	Black Cypress Bayou (Creek)	PCR1	Н			50	50	200	$\leq 5.0^{3}$	5.5-8.0	126	90

- 1 The indicator bacteria for freshwater is *E. coli*.
- 2 The segment is an intermittent stream with perennial pools.
- A 24-hour average dissolved oxygen criterion of 5.0 mg/L is the upper bounds if the following indicated dissolved oxygen equation predicts dissolved oxygen values that are higher than 5.0 mg/L. When the 24-hour average dissolved oxygen is predicted to be lower than 1.5 mg/L, then the dissolved oxygen criterion is set at 1.5 mg/L. When the 24-hour dissolved oxygen criterion is greater than 2.0 mg/L, the corresponding 24-hour minimum dissolved oxygen criterion should be 1.0 mg/L less than the calculated 24-hour average. When the 24-hour dissolved oxygen criterion is less than or equal to 2.0 mg/L, the corresponding 24-hour minimum dissolved oxygen criterion should be 0.5 mg/L less than the calculated 24-hour average criterion.

 When stream flow is below 0.1 cfs, then 0.1 cfs is the presumed flow that should be used in the equation. This

equation supersedes Table 4 in $\S307.7(b)(3)(A)$ of this title. DO = $12.11 - 0.309T + 1.05 \log Q - 1.02 \log WS$ where DO = 24-hour average dissolved oxygen criterion

T = temperature in degrees Celsius

Q = flow in cfs

WS = watershed size in square km (up to 1000 km)

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EPA is reviewing and has not approved revised minerals criteria in segment 0507. Criteria from 2000 standards (50 mg/L chloride, 50 mg/L sulfate, 200 mg/L TDS) remain in effect for CWA purposes.

Sabine River Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	рН	Indicator	
Segment	Sabine River Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
0501	Sabine River Tidal	PCR1	Н						4.0	6.0-8.5	35	95
0502	Sabine River Above Tidal	PCR1	Н	PS		50	50	200	5.0	6.0-8.5	126	91
0503	Sabine River Above Caney Creek	PCR1	Н	PS		50	50	200	5.0	6.0-8.5	126	91
0504	Toledo Bend Reservoir	PCR1	Н	PS		70	50	240	5.0	6.0-8.5	126	93
	Sabine River Above Toledo Bend											
0505	Reservoir	PCR1	Н	PS		175	100	400	5.0	6.0-8.5	126	93
0506	Sabine River Below Lake Tawakoni	PCR1	Н	PS		200	100	500	5.0	6.0-8.5	126	90
0507	Lake Tawakoni	PCR1	Н	PS		75^{2}	75^{2}	400^{2}	5.0	6.0-9.0	126	93
0508	Adams Bayou Tidal	PCR1	Н						4.0	6.0-8.5	35	95
0509	Murvaul Lake	PCR1	Н	PS		150	75	500	5.0	6.5-9.0	126	92
0510	Lake Cherokee	PCR1	Н	PS		75	50	250	5.0	6.0-8.5	126	95
0511	Cow Bayou Tidal	PCR1	Н						4.0	6.0-8.5	35	95
0512	Lake Fork Reservoir	PCR1	Н	PS		50	50	200	5.0	6.5-9.0	126	95
0513	Big Cow Creek	PCR1	Н	PS		75	50	300	5.0	5.5-8.5	126	90
0514	Big Sandy Creek	PCR1	Н	PS		75	50	300	5.0	6.0-8.5	126	90
0515	Lake Fork Creek	PCR1	Н	PS		100	75	400	5.0	6.0-8.5	126	90



The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.

This criterion will be reviewed upon the next water quality standards revision and is contingent upon the continuation and progress of a water reuse project. The original criteria (TDS of 200, Cl^{-1} of 50, and SO_4^{-2} of 50) may be appropriate if the water reuse project is not pursued.

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EPA is reviewing and has not approved revised dissolved oxygen criterion in segment 0607. The 2010 criterion of 5.0 mg/L remains in effect for CWA purposes.

EPA has also not approved revised pH criteria in segmento605. The 2010 pH range (6.0-8.5) remains in effect for CWA purposes.

Neches River Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	рН	Indicator	
Segment	Neches River Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
0601	Neches River Tidal	PCR1	I						3.0	6.0-8.5	35	95
	Neches River Below B. A. Steinhagen											
0602	Lake	PCR1	Н	PS		50	50	200	5.0	6.0-8.5	126	91
0603	B. A. Steinhagen Lake	PCR1	Н	PS		50	50	200	5.0	6.0-8.5	126	93
0604	Neches River Below Lake Palestine	PCR1	Н	PS		50	50	200	5.0	6.0-8.5	126	91
0605	Lake Palestine	PCR1	Н	PS		50	50	200	5.0	6.5-9.0	126	90
0606	Neches River Above Lake Palestine	PCR1	I	PS		100	50	300	4.0	6.0-8.5	126	95
0607	Pine Island Bayou	PCR1	Н	PS		150	50	300	3.0	6.0-8.5	126	95
0608	Village Creek	PCR1	Н	PS		150	75	300	5.0	5.5-8.0	126	90
	Angelina River Below Sam Rayburn											
0609	Reservoir	PCR1	Н	PS		70	50	250	5.0	6.0-8.5	126	90
0610	Sam Rayburn Reservoir	PCR1	Н	PS		100	100	400	5.0	6.0-8.5	126	93
	Angelina River Above Sam Rayburn											
0611	Reservoir	PCR1	Н	PS		125	50	250	5.0	6.0-8.5	126	90
0612	Attoyac Bayou	PCR1	Н	PS		75	50	200	5.0	6.0-8.5	126	90
0613	Lake Tyler/Lake Tyler East	PCR1	Н	PS		50	50	200	5.0	6.5-9.0	126	93
0614	Lake Jacksonville	PCR1	Н	PS		50	75	750	5.0	6.5-9.0	126	93
	Angelina River/Sam Rayburn											
0615	Reservoir	PCR1	Н	PS		150	100	500	5.0	6.5-9.0	126	93

¹ The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.

Neches-Trinity Coastal Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Neches-Trinity Coastal Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
0701	Taylor Bayou Above Tidal	PCR1	I			400	100	1,100	4.0	6.5-9.0	126	95
0702	Intracoastal Waterway Tidal	PCR1	Н						4.0	6.5-9.0	35	95
0703	Sabine-Neches Canal Tidal	PCR1	Н						4.0	6.5-9.0	35	95
0704	Hillebrandt Bayou	PCR1	I			250	100	600	4.0^{2}	6.5-9.0	126	95

- 1 The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.
- The 24-hour minimum dissolved oxygen criterion is 2.5 mg/L.

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EPA is reviewing and has not approved revised minerals criteria in segments 0803, 0812, and 0821.

EPA has also not approved revised pH criteria in segment 0818. The 2010 pH range (6.0-8.5) remains in effect for CWA purposes.

Trinity River Basin Designated Uses and Numeric Criteria

	Trinity River Basin Designated	Uses and N	umeric (Eriteria								
			Aquatic	Domestic					Dissolved	рН	Indicator	
Segment	Trinity River Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
0801	Trinity River Tidal	PCR1	Н	11 /		, O, ,	, O, ,	, O, ,	4.0	6.5-9.0	35	95
0802	Trinity River Below Lake Livingston	PCR1	H	PS		125	100	600	5.0	6.5-9.0	126	93
0803	Lake Livingston	PCR1	H	PS		150	60	500	5.0	6.5-9.0	126	93
0804	Trinity River Above Lake Livingston	PCR1	H	10		150	150	600	5.0	6.5-9.0	126	93
0805	Upper Trinity River	PCR1	H			175	175	850	5.0 ²	6.5-9.0	126	95
0005	West Fork Trinity River Below Lake	Text				170	170	000	0.0	0.0 0.0	120	00
0806	Worth	PCR1	Н	PS		100	100	500	5.0	6.5-9.0	126	93
0807	Lake Worth	PCR1	H	PS		100	100	500	5.0	6.5-9.0	126	91
0001	West Fork Trinity River Below Eagle	Text		10		100	100	500	5.0	0.0 0.0	120	01
0808	Mountain Reservoir	PCR1	Н	PS		100	100	500	5.0	6.5-9.0	126	91
0809	Eagle Mountain Reservoir	PCR1	H	PS		75	75	300	5.0	6.5-9.0	126	94
0003	West Fork Trinity River Below	TCKI	- 11	10		7.5	7.5	300	3.0	0.5 5.0	120	31
0810	Bridgeport Reservoir	PCR1	Н	PS		100	100	500	5.0	6.5-9.0	126	90
0811	Bridgeport Reservoir	PCR1	H	PS		75	75	300	5.0	6.5-9.0	126	90
0011	West Fork Trinity River Above	Text		10		10	7.0	500	5.0	0.0 0.0	120	50
0812	Bridgeport Reservoir ³	PCR1	Ī	PS		190	200	800	3.0^{4}	6.5-9.0	126	88
0813	Houston County Lake	PCR1	H	PS		75	75	300	5.0	6.5-9.0	126	93
0015	Chambers Creek Above Richland-	Text		10		10	10	500	5.0	0.0 0.0	120	00
0814	Chambers Reservoir	PCR1	Н	PS		90	160	500	5.0	6.5-9.0	126	90
0815	Bardwell Reservoir	PCR1	H	PS		50	50	300	5.0	6.5-9.0	126	91
0816	Lake Waxahachie	PCR1	H	PS		50	50	300	5.0	6.5-9.0	126	91
0817	Navarro Mills Lake	PCR1	H	PS		50	75	300	5.0	6.5-9.0	126	90
0818	Cedar Creek Reservoir	PCR1	H	PS		50	100	200	5.0	6.5-9.0	126	93
0819	East Fork Trinity River	PCR1	Ī	10		100	100	500	4.0	6.5-9.0	126	91
0820	Lake Ray Hubbard	PCR1	H	PS		100	100	500	5.0	6.5-9.0	126	93
0821	Lavon Lake	PCR1	H	PS		100	100	500	5.0	6.5-9.0	126	93
0021	Elm Fork Trinity River Below	1 0101		10		100	100	000	5.0	3.0 3.0	120	35
0822	Lewisville Lake	PCR1	Н	PS		80	60	500	5.0	6.5-9.0	126	90
0823	Lewisville Lake	PCR1	H	PS		80	60	500	5.0	6.5-9.0	126	90
	Elm Fork Trinity River Above Ray											
0824	Roberts Lake	PCR1	Н	PS^5		110	90	700	5.0	6.5-9.0	126	90
0825	Denton Creek	PCR1	H	PS		80	60	500	5.0	6.5-9.0	126	90
0823	Grapevine Lake	PCR1	H	PS PS		80	60	500	5.0	6.5-9.0	126	93
0827	White Rock Lake	PCR1	<u>п</u> Н	13	1	100	100	400	5.0	6.5-9.0	126	93
0827	Lake Arlington	PCR1	п Н	PS		100	100	300	5.0	6.5-9.0	126	95 95
0020	Clear Fork Trinity River Below	PCKI	П	rs		100	100	300	3.0	0.5-9.0	120	93
0829	Benbrook Lake	PCR1	Н	PS		100	100	500	5.0	6.5-9.0	126	93
0830	Benbrook Lake	PCR1	<u>п</u> Н	PS		75	75	300	5.0	6.5-9.0	126	93
0630	DEHDIUUK LAKE	rcki	п	73		73	73	300	ა.0	0.5-9.0	120	93

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Trinity River Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
	Clear Fork Trinity River Below Lake											
0831	Weatherford	PCR1	Н	PS		100	100	500	5.0^{6}	6.5-9.0	126	90
0832	Lake Weatherford	PCR1	Н	PS		100	100	500	5.0	6.5-9.0	126	93
	Clear Fork Trinity River Above Lake											
0833	Weatherford ⁷	PCR1	I	PS		125	125	750	4.0^{8}	6.5-9.0	126	95
0834	Lake Amon G. Carter	PCR1	Н	PS		150	150	400	5.0	6.5-9.0	126	93
	Richland Creek Below Richland-											
0835	Chambers Reservoir	PCR1	Н	PS		145	170	500	5.0	6.5-9.0	126	90
0836	Richland-Chambers Reservoir	PCR1	Н	PS		75	110	400	5.0	6.5-9.0	126	91
	Richland Creek Above Richland-											
0837	Chambers Reservoir	PCR1	H	PS		145	170	500	5.0	6.5-9.0	126	90
0838	Joe Pool Lake	PCR1	Н	PS		100	250	500	5.0	6.5-9.0	126	90
	Elm Fork Trinity River Below Ray											
0839	Roberts Lake	PCR1	Н	PS		80	60	500	5.0	6.5-9.0	126	90
0840	Ray Roberts Lake	PCR1	Н	PS		80	60	500	5.0	6.5-9.0	126	90
0841	Lower West Fork Trinity River	PCR1	I			175	175	850	4.0^{9}	6.5-9.0	126	95

- 1 The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.
- The dissolved oxygen criterion is 3.5 mg/L when headwater flow at USGS Gaging Station 08048000 (located on the West Fork Trinity River in Fort Worth) is less than 80 cfs.
- 3 The segment is an intermittent stream with perennial pools.
- 4 The 24-hour minimum dissolved oxygen criterion is 2.0 mg/L.
- The public water supply use does not apply from a point 9.5 km (5.9 mi) downstream of the confluence of Pecan Creek in Cooke County up to FM 373 in Cooke County.
- A 24-hour average dissolved oxygen criterion of 3.0 mg/L and minimum dissolved oxygen criterion of 2.0 mg/L applies from the confluence with an unnamed tributary approximately 1.0 mi downstream of Weatherford Dam upstream to Weatherford Dam.
- 7 The segment is an intermittent stream with perennial pools.
- 8 The 24-hour minimum dissolved oxygen criterion is 2.0 mg/L. A 24-hour average dissolved oxygen criterion of 2.0 mg/L and a 24-hour minimum dissolved oxygen criterion of 1.0 mg/L apply when flows are less than 1.0 cfs.
- The dissolved oxygen criterion is 2.5 mg/L when headwater flow at USGS Gaging Station 08048000 (located on the West Fork Trinity River in Fort Worth) is less than 80.0 cfs.

Trinity-San Jacinto Coastal Basin Designated Uses and Numeric Criteria

											Indicator	
			Aquatic	Domestic					Dissolved	рН	Bacteria ¹	
Segment	Trinity-San Jacinto Coastal Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	#/100	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	mL	(degrees F)
0901	Cedar Bayou Tidal	PCR1	Н						4.0	6.5-9.0	35	95
0902	Cedar Bayou Above Tidal	PCR1	Н			200	150	700	5.0	6.5-9.0	126	90

1 The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.

San Jacinto River Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	рН	Indicator	
Segment	San Jacinto River Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1001	San Jacinto River Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1002	Lake Houston	PCR1	Н	PS		100	50	400	5.0	6.5-9.0	126	90
1003	East Fork San Jacinto River	PCR1	Н	PS		80	50	400	5.0	6.0-8.5	126	91
1004	West Fork San Jacinto River	PCR1	Н	PS		100	50	400	5.0	6.5-9.0	126	95
	Houston Ship Channel/San Jacinto											
1005	River Tidal	NCR	Н						4.0	6.5-9.0	35	95
1006^{2}	Houston Ship Channel Tidal				N/IS				2.0	6.5-9.0	168	95
	Houston Ship Channel/Buffalo Bayou											
1007^{2}	Tidal				N/IS				1.0	6.5-9.0	168	95
1008	Spring Creek	PCR1	Н	PS		100	50	450	5.0^{3}	6.5-9.0	126	90
1009	Cypress Creek	PCR1	Н	PS		100	50	600	5.0	6.5-9.0	126	90
1010	Caney Creek	PCR1	Н	PS		50	50	300	5.0	6.0-8.5	126	90
1011	Peach Creek	PCR1	Н	PS		50	50	300	5.0	6.0-8.5	126	90
1012	Lake Conroe	PCR1	Н	PS		50	50	300	5.0	6.5-9.0	126	90
1013	Buffalo Bayou Tidal	PCR1	I						3.0	6.5-9.0	35	92
1014	Buffalo Bayou Above Tidal	PCR1	L			110	65	600	3.0	6.5-9.0	126	92
1015	Lake Creek	PCR1	Н	PS		80	50	300	5.0	6.0-8.5	126	90
1016	Greens Bayou Above Tidal	PCR1	L			150	150	1,000	3.0	6.5-9.0	126	92
1017	Whiteoak Bayou Above Tidal	PCR1	L			110	65	600	3.0	6.5-9.0	126	92

- 1 The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.
- 2 Chronic numerical toxic criteria, chronic total toxicity requirements, and numerical toxic criteria applicable to sustainable fisheries apply to the segment.
- A 24-hour average dissolved oxygen criterion of 4.0 mg/L and a 24-hour minimum dissolved oxygen criterion of 3.0 mg/L apply from the confluence with Mill Creek immediately downstream of Neidigk Lake, upstream to the confluence with Kickapoo Creek from July through September.

San Jacinto-Brazos Coastal Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	San Jacinto-Brazos Coastal Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1101	Clear Creek Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1102	Clear Creek Above Tidal	PCR1	Н			200	100	600	5.0	6.5-9.0	126	95
1103	Dickinson Bayou Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1104	Dickinson Bayou Above Tidal	PCR1	I			200	100	600	4.0	6.5-9.0	126	90
1105	Bastrop Bayou Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1107	Chocolate Bayou Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1108	Chocolate Bayou Above Tidal	PCR1	Н			200	100	900	5.0	6.5-9.0	126	90
1109	Oyster Creek Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1110	Oyster Creek Above Tidal	PCR1	Н			300	150	750	5.0	6.5-9.0	126	90
1111	Old Brazos River Channel Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1113	Armand Bayou Tidal	PCR1	Н						4.0	6.5-9.0	35	95

¹ The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.

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EPA is reviewing and has not approved revised minerals criteria in segments 1206, 1214, and 1227. For segment 1214, the 2010 TDS criterion of 500 mg/L remains in effect for CWA purposes.

Brazos River Basin Designated Uses and Numeric Criteria

	Brazos River Basin Designate	u Oscs and		CITICITA								
			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Brazos River Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1201	Brazos River Tidal	PCR1	Н	PS ²					4.0	6.5-9.0	35	95
1202	Brazos River Below Navasota River	PCR1	Н	PS		300	200	750	5.0	6.5-9.0	126	95
1203	Whitney Lake	PCR1	Н	PS		670	320	1,500	5.0	6.5-9.0	126	93
1204	Brazos River Below Lake Granbury	PCR1	Н			750	380	1,600	5.0	6.5-9.0	126	91
1205	Lake Granbury	PCR1	Н	PS		1,000	600	2,500	5.0	6.5-9.0	126	93
	Brazos River Below Possum					,		,				
1206	Kingdom Lake	PCR1	Н			1.036	595	2,325	5.0	6.5-9.0	126	90
1207	Possum Kingdom Lake	PCR1	Н	PS		1,200	500	3,500	5.0	6.5-9.0	126	93
	Brazos River Above Possum					Í		,				
1208	Kingdom Lake	PCR1	Н			5,000	2,000	12,000	5.0	6.5-9.0	33	95
	Navasota River Below Lake											
1209	Limestone	PCR1	Н	PS		140	100	600	5.0	6.5-9.0	126	93
1210	Lake Mexia	PCR1	Н	PS		100	50	400	5.0	6.5-9.0	126	90
1211	Yegua Creek	PCR1	Н	PS		140	130	640	5.0	6.5-9.0	126	91
1212	Somerville Lake	PCR1	Н	PS		100	100	400	5.0	6.5-9.0	126	93
1213	Little River	PCR1	Н	PS		75	75	400	5.0	6.5-9.0	126	90
1214	San Gabriel River	PCR1	Н	PS		50	45	550	5.0	6.5-9.0	126	91
	Lampasas River Below Stillhouse											
1215	Hollow Lake	PCR1	Н	PS		100	75	500	5.0	6.5-9.0	126	91
1216	Stillhouse Hollow Lake	PCR1	Е	PS		100	75	500	6.0	6.5-9.0	126	93
	Lampasas River Above Stillhouse											
1217	Hollow Lake	PCR1	Н			500	100	1,200	5.0	6.5-9.0	126	91
1218	Nolan Creek/South Nolan Creek	PCR1	Н			100	75	500	5.0	6.5-9.0	126	93
1219	Leon River Below Belton Lake	PCR1	Н	PS		150	75	500	5.0	6.5-9.0	126	91
1220	Belton Lake	PCR1	Н	PS		100	75	500	5.0	6.5-9.0	126	93
1221	Leon River Below Proctor Lake	PCR1	Н	PS		150	100	900	5.0	6.5-9.0	126	90
1222	Proctor Lake	PCR1	Н	PS		200	75	500	5.0	6.5-9.0	126	93
1223	Leon River Below Leon Reservoir	PCR1	Н	PS		480	130	1,240	5.0	6.5-9.0	126	93
1224	Leon Reservoir	PCR1	Н	PS		150	75	500	5.0	6.5-9.0	126	93
1225	Waco Lake	PCR1	Н	PS		60	60	400	5.0	6.5-9.0	126	93
1226	North Bosque River	PCR1	Н	PS		100	100	540	5.0	6.5-9.0	126	91
1227	Nolan River	PCR1	I			372	320	1,383		6.5-9.0	126	95
1228	Lake Pat Cleburne	PCR1	Н	PS		100	100	300	5.0	6.5-9.0	126	93
1229	Paluxy River/North Paluxy River	PCR1	Н	PS		50	100	500	5.0	6.5-9.0	126	91
1230	Lake Palo Pinto	PCR1	Н	PS		100	100	450	5.0	6.5-9.0	126	93
1231	Lake Graham	PCR1	Н	PS		200	75	500	5.0	6.5-9.0	126	95
1232	Clear Fork Brazos River	PCR1	Н	-		1,250	2,200	4,900	5.0	6.5-9.0	126	93
1233	Hubbard Creek Reservoir	PCR1	Н	PS	İ	350	150	900	5.0	6.5-9.0	126	93
1234	Lake Cisco	PCR1	Н	PS		75	75	350	5.0	6.5-9.0	126	93
				- 0						2.2 0.0		

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EPA is reviewing and has not approved revised minerals criteria in segments 1238, 1240, 1241, and 1248. For segment 1248, the 2010 TDS criterion of 350 mg/L remains in effect for CWA purposes.

			Aquatic	Domestic					Dissolved	рН	Indicator	
Segment	Brazos River Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1235	Lake Stamford	PCR1	Н	PS		580	400	2,100	5.0	6.5-9.0	126	93
1236	Fort Phantom Hill Reservoir	PCR1	Н	PS		130	150	550	5.0	6.5-9.0	126	93
1237	Lake Sweetwater	PCR1	Н	PS		250	225	730	5.0	6.5-9.0	126	93
1238	Salt Fork Brazos River	PCR1	Н			28,060	3,470	54,350		6.5-9.0	33	93
1239	White River	PCR1	Н	PS		100	100	500	5.0	6.5-9.0	126	92
1240	White River Lake	PCR1	Н	PS		190	90	780	> 5.0	6.5-9.0	126	89
1241	Double Mountain Fork Brazos River	PCR1	Н			2,630	2,400	5,500	5.0	6.5-9.0	33	95
1242	Brazos River Above Navasota River	PCR1	Н	PS		350	200	1,000	5.0	6.5-9.0	126	95
1243	Salado Creek³	PCR1	Н	PS/AP ⁴		50	50	400	5.0	6.5-9.0	126	90
1244	Brushy Creek	PCR1	Н	PS/AP ⁴		200	150	800	5.0	6.5-9.0	126	91
1245	Upper Oyster Creek	PCR1	I	PS^5		140	75	1,070	4.0^{6}	6.5-9.0	126	95
1246	Middle Bosque/South Bosque River	PCR1	Н			50	260	700	5.0	6.5-9.0	126	91
1247	Granger Lake	PCR1	Н	PS		50	50	400	5.0	6.5-9.0	126	90
	San Gabriel/North Fork San Gabriel	PCR1										
1248	River		Н	PS/AP ⁴		50	50	400	5.0	6.5-9.0	126	95
1249	Lake Georgetown	PCR1	Н	PS/AP ⁴		50	50	350	5.0	6.5-9.0	126	90
1250	South Fork San Gabriel River	PCR1	Н	PS/AP ⁴		50	50	350	5.0	6.5-9.0	126	95
1251	North Fork San Gabriel River	PCR1	Н	PS/AP ⁴		50	50	400	5.0	6.5-9.0	126	91
1252	Lake Limestone	PCR1	Н	PS		50	50	300	5.0	6.5-9.0	126	90
1253	Navasota River Below Lake Mexia	PCR1	Н	PS		440	150	1,350	5.0	6.5-9.0	126	93
1254	Aquilla Reservoir	PCR1	Н	PS		110	310	600	5.0	6.5-9.0	126	90
1255	Upper North Bosque River	PCR1	I			200	150	1,000	4.0	6.5-9.0	126	91
1256	Brazos River/Lake Brazos	PCR1	Н	PS		400	200	1,150	5.0	6.5-9.0	126	95
1257	Brazos River Below Whitney Lake	PCR1	Н	PS		450	250	1,450	5.0	6.5-9.0	126	95
1258	Middle Oyster Creek	PCR1	Н			300	150	750	5.0	6.5-9.0	126	95
1259	Leon River Above Belton Lake	PCR1	Н	PS		150	100	900	5.0	6.5-9.0	126	90

- The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci. The indicator bacteria for Segments 1208, 1238, and 1241 is Enterococci.
- The public water supply designation only applies from the upstream boundary to 300 meters (330 yards) downstream of SH 332 in Brazoria County.
- The critical low-flow is calculated according to §307.8(a)(2)(B) of this title.
- 4 The aquifer protection use applies to the contributing, recharge, and transition zones of the Edwards Aquifer.
- The public water supply use does not apply from Steep Bank Creek/Brazos River confluence upstream to Dam #3 approximately 0.4 mi downstream from the confluence of the American Canal.
- A 24-hour minimum dissolved oxygen criterion of 1.0 mg/L applies from the confluence with Steep Bank Creek/Brazos River upstream to Dam #3.

Brazos-Colorado Coastal Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Brazos-Colorado Coastal Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1301	San Bernard River Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1302	San Bernard River Above Tidal	PCR1	Н	PS		200	100	500	5.0	6.5-9.0	126	90
1304	Caney Creek Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1305	Caney Creek Above Tidal	PCR1	Н			200	75	1,000	5.0 ²	6.5-9.0	126	90

- 1 The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.
- A 24-hour average dissolved oxygen criterion of 4.0 mg/L and a 24-hour minimum dissolved oxygen criterion of 3.0 mg/L applies from the confluence with Hardeman Slough upstream to the confluence with Water Hole Creek. A 24-hour average dissolved oxygen criterion 2.5 mg/L and a 24-hour minimum dissolved oxygen criterion of 2.0 mg/L applies from the confluence with Hardeman Slough upstream to the confluence with Water Hole Creek from March 15 October 31 when flows are less than 5.0 cfs.

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EPA is reviewing and has not approved revised minerals criteria in segments 1411, 1412, 1413, 1421, and 1426, or the new minerals criteria in segment 1433.

Colorado River Basin Designated Uses and Numeric Criteria

Segment Colorado River Basin Recreation Life Use		Colorado River Basin Designate	eu Oses anu		e Criteria								
No. Segment Names Use Use Supply Use Uses (mg/L) (Indicator	
1401 Colorado River Tidal PCR1 H PS 100 100 500 5.0 6.5-9.0 35 95 1402 Colorado River Below La Grange PCR1 H PS 100 75 400 5.0 6.5-9.0 126 95 1403 Lake Austin PCR1 H PS 100 75 400 6.0 6.5-9.0 126 90 1404 Lake Travis PCR1 H PS 100 75 400 6.0 6.5-9.0 126 90 1405 Marble Falls Lake PCR1 H PS 125 75 500 5.0 6.5-9.0 126 94 1406 Lake Lyndon B, Johnson PCR1 H PS 125 75 500 5.0 6.5-9.0 126 94 1407 Inks Lake PCR1 H PS 125 75 500 5.0 6.5-9.0 126 94 1409 Lake Burchanan PCR1 H PS 150 100 600 5.0 6.5-9.0 126 90 1409 Colorado River Above Lake Buchanan PCR1 H PS 150 100 600 5.0 6.5-9.0 126 91 1410 Colorado River Below C. H. Nie PCR1 H PS 500 445 1473 5.0 6.5-9.0 126 91 1411 E V. Spirice Reservoir PCR1 H PS 440 360 1.630 5.0 6.5-9.0 126 93 1412 Thornas PCR1 H PS 440 250 520 5.0 6.5-9.0 126 93 1413 Lake L. B. Thomas PCR1 H PS 440 250 520 5.0 6.5-9.0 126 93 1414 Pedemales River PCR1 H PS 50 50 6.5-9.0 126 90 1414 Pedemales River PCR1 H PS 50 50 6.5-9.0 126 90 1414 Lake Brownwood PCR1 H PS 50 50 6.5-9.0 126 90 1414 Lake Coleman PCR1 H PS 50 50 6.5-9.0 126 90 1414 Lake Coleman PCR1 H PS 50 50 6.5-9.0 126 90 1412 Lake London River PCR1 H PS 50 50 6.5-9.0 126 90 1414 Middle Concho/South Conche River PCR1 H PS 50 50 6.5-9.0 126 90 1412 Lake River PCR1 H PS 50 50 6.5-9.0 126 90 1412 Colorado River Below Lake Brownwood PCR1 H PS 50 50 6.5-9.0 126 90 1414 Lake Coleman PCR1 H PS 50 50 6.5-9.0 126 90 1414 Middle Concho/South Concho River PCR1 H PS 50 50 6.5-9.0 126 90	Segment	Colorado River Basin	Recreation	Life		Other					Range		
1402 Colorado River Below La Grange PCR1 H PS 100 100 500 5.0 6.5-9.0 126 95 1403 Lake Austin PCR1 E PS 100 7.5 400 5.0 6.5-9.0 126 90 1404 Lake Travis PCR1 E PS 100 7.5 400 6.0 6.5-9.0 126 90 1405 Marble Falls Lake PCR1 H PS 125 7.5 500 5.0 6.5-9.0 126 94 1406 Lake Lyndon B. Johnson PCR1 H PS 125 7.5 500 5.0 6.5-9.0 126 94 1407 Inkis Lake PCR1 H PS 1.50 100 600 5.0 6.5-9.0 126 94 1407 Inkis Lake PCR1 H PS 1.50 100 600 5.0 6.5-9.0 126 90 1408 Lake Buchanan PCR1 H PS 1.50 100 600 5.0 6.5-9.0 126 90 1409 Colorado River Below O. H. Ivie PCR1 H PS 200 200 300 5.0 6.5-9.0 126 91 1411 E. V. Spence Reservoir PCR1 H PS 440 360 1,630 5.0 6.5-9.0 126 93 1412 Thomas PCR1 H PS 1.50 100 600 5.0 6.5-9.0 126 93 1413 Lake J. B. Thomas PCR1 H PS 1.50 50 5.0 6.5-9.0 126 91 1414 PARTICIPA	No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1403 Lake Austin	1401	Colorado River Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1404 Lake Travis	1402	Colorado River Below La Grange	PCR1				100	100		5.0	6.5-9.0	126	
1405 Marble Falls Lake	1403	Lake Austin	PCR1	Н	PS		100	75	400	5.0	6.5-9.0	126	90
1406 Lake Lyndon B. Johnson PCR1 H PS 125 75 500 5.0 6.5-9.0 126 94 1407 Inks Lake PCR1 H PS 150 100 600 5.0 6.5-9.0 126 90 1408 Lake Buchanan PCR1 H PS 150 100 600 5.0 6.5-9.0 126 90 1409 Colorado River Above Lake Buchanan PCR1 H PS 200 200 900 5.0 6.5-9.0 126 91 1410 Reservoir PCR1 H PS 500 455 1.475 5.0 6.5-9.0 126 91 1411 E. V. Spence Reservoir PCR1 H PS 440 360 1,630 5.0 6.5-9.0 126 93 1412 Thomas PCR1 H PS 440 360 1,630 5.0 6.5-9.0 126 93 1413 Lake J. B. Thomas PCR1 H PS 440 360 1,630 5.0 6.5-9.0 126 93 1414 Pedernales River PCR1 H PS 470 1.570 9.210 5.0 6.5-9.0 126 91 1415 Llano River PCR1 H PS 1.50 50 50 5.5 6.5-9.0 126 91 1416 San Saba River PCR1 H PS 50 50 425 5.0 6.5-9.0 126 91 1417 Lower Pecan Bayou PCR1 H PS 50 50 425 5.0 6.5-9.0 126 90 1418 Lake River PCR1 H PS 150 100 500 5.0 6.5-9.0 126 90 1419 Lake Coleman PCR1 H PS 150 100 500 5.0 6.5-9.0 126 90 1419 Lake River PCR1 H PS 150 100 500 5.0 6.5-9.0 126 90 1421 Concho River PCR1 H PS 500 500 5.0 6.5-9.0 126 90 1422 Lake River PCR1 H PS 500 500 5.0 6.5-9.0 126 90 1423 Twin Buttes Reservoir PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1424 Mddie Concho/South Concho River PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1428 Lake/Town Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1429 Lake River PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1420 Lake River PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1421 Colorado River Below Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1420 Lake Rive	1404	Lake Travis	PCR1	E			100		400	6.0	6.5-9.0	126	90
1407 Inks Lake	1405	Marble Falls Lake	PCR1								6.5-9.0	126	94
1408 Lake Buchanan	1406	Lake Lyndon B. Johnson	PCR1	Н	PS		125	75	500	5.0	6.5-9.0	126	94
1408 Lake Buchanan PCR1 H PS 150 100 600 5.0 6.5-9.0 126 90 1409 Colorado River Above Lake Buchanan PCR1 H PS 200 200 200 5.0 6.5-9.0 126 91 1410 Reservoir PCR1 H PS 5.00 425 5.0 6.5-9.0 126 91 1411 E.V. Spence Reservoir PCR1 H PS 440 360 1,630 5.0 6.5-9.0 126 93 1412 Thomas PCR1 H PS 440 360 1,630 5.0 6.5-9.0 126 93 1413 Lake J. B. Thomas PCR1 H PS 440 1,570 9,210 5.0 6.5-9.0 126 90 1414 Pedernales River PCR1 H PS 125 75 525 5.0 6.5-9.0 126 91 1416 San Saba River PCR1 H PS 50 50 50 50 6.5-9.0 126 91 1416 San Saba River PCR1 H PS 50 50 50 6.5-9.0 126 90 1418 Lake Brownwood PCR1 H PS 150 100 500 5.0 6.5-9.0 126 90 1419 Lake Coleman PCR1 H PS 150 100 500 5.0 6.5-9.0 126 90 1420 Pecan Bayou Above Lake Brownwood PCR1 H PS 500 500 5.0 6.5-9.0 126 90 1421 Concho River PCR1 H PS 500 500 5.0 6.5-9.0 126 90 1422 Lake Nasworthy PCR1 H PS 500 500 5.0 6.5-9.0 126 90 1423 Twin Buttes Reservoir PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1424 Middle Concho/South Concho River PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O.C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1426 Reservoir PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1427 Onion Creek PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1428 Lake/Town Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1429 Lady Bird Lake/Town Lake PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 50 50 50 50 5.9 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 430 430 5.0 6.5-9.0 126 90 1433 O. H. Iv	1407	Inks Lake	PCR1	Н	PS		150	100	600	5.0	6.5-9.0	126	90
1410		Lake Buchanan	PCR1	Н	PS		150	100	600	5.0	6.5-9.0	126	90
1410 Reservoir PCR1 H PS 500 455 1.475 5.0 6.5-9.0 126 91		Colorado River Above Lake Buchanan	PCR1		PS		200	200	900	5.0	6.5-9.0	126	91
1411 E. V. Spence Reservoir PCR1 H PS 440 360 1,630 5.0 6.5-9.0 126 93		Colorado River Below O. H. Ivie											
1411 E. V. Spence Reservoir PCR1 H PS 440 360 1,630 5.0 6.5-9.0 126 93	1410	Reservoir	PCR1	Н	PS		500	455	1.475	5.0	6.5-9.0	126	91
Colorado River Below Lake J. B. PCR1		E. V. Spence Reservoir	PCR1	Н	PS		440	360	1,630	5.0	6.5-9.0	126	93
1413 Lake J. B. Thomas		Colorado River Below Lake J. B.											
1414 Pedernales River PCR1 H PS 125 75 525 5.0 6.5-9.0 126 91 1415 Llano River PCR1 H PS 50 50 350 5.0 6.5-9.0 126 91 1416 San Saba River PCR1 H PS 50 50 425 5.0 6.5-9.0 126 91 1417 Lower Pecan Bayou PCR1 H PS 50 50 425 5.0 6.5-9.0 126 90 1418 Lake Brownwood PCR1 H PS 150 100 500 5.0 6.5-9.0 126 90 1419 Lake Coleman PCR1 H PS 150 100 500 5.0 6.5-9.0 126 93 1420 Pecan Bayou Above Lake Brownwood PCR1 H PS 500 500 5.0 6.5-9.0 126 90 1421 Concho River PCR1 H PS 500 500 5.0 6.5-9.0 126 90 1422 Lake Nasworthy PCR1 H PS 450 400 1,500 5.0 6.5-9.0 126 93 1423 Twin Buttes Reservoir PCR1 H PS 450 400 1,500 5.0 6.5-9.0 126 93 1424 Middle Concho/South Concho River PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1426 Reservoir PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1427 Onion Creek PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1428 Lake/Town Lake PCR1 E PS 100 100 500 6.0 6.5-9.0 126 90 1429 Lady Bird Lake/Town Lake PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0	1412		PCR1	Н			4.740	1.570			6.5-9.0	33	93
1415 Llano River PCR1	1413	Lake J. B. Thomas	PCR1	Н	PS		140	250	520	5.0	6.5-9.0	126	90
1416 San Saba River	1414	Pedernales River	PCR1	Н			125	75	525	5.0	6.5-9.0	126	91
1417 Lower Pecan Bayou PCR1 H PS 150 100 500 5.0 6.5-9.0 126 90 1418 Lake Brownwood PCR1 H PS 150 100 500 5.0 6.5-9.0 126 90 1419 Lake Coleman PCR1 H PS 150 100 500 5.0 6.5-9.0 126 93 1420 Pecan Bayou Above Lake Brownwood PCR1 H PS 500 500 1.500 5.0 6.5-9.0 126 90 1421 Concho River PCR1 H PS 610 420 1,730 5.0 6.5-9.0 126 90 1422 Lake Nasworthy PCR1 H PS 450 400 1,500 5.0 6.5-9.0 126 93 1423 Twin Buttes Reservoir PCR1 H PS 200 100 700 5.0 6.5-9.0 126 90 1424 Middle Concho/South Concho River PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1426 Reservoir PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1427 Onion Creek PCR1 H PS 1,000 1,100 1,770 5.0 6.5-9.0 126 90 1428 Lake/Town Lake PCR1 H PS 100 100 500 6.6 6.5-9.0 126 90 1429 Lady Bird Lake/Town Lake PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1	1415	Llano River ²	PCR1	Н			50	50	350	5.0	6.5-9.0	126	91
1418 Lake Brownwood PCR1 H PS 150 100 500 5.0 6.5-9.0 126 90 1419 Lake Coleman PCR1 H PS 150 100 500 5.0 6.5-9.0 126 93 1420 Pecan Bayou Above Lake Brownwood PCR1 H PS 500 500 5.0 6.5-9.0 126 93 1421 Concho River PCR1 H PS 610 420 1,730 5.0 6.5-9.0 126 90 1422 Lake Nasworthy PCR1 H PS 450 400 1,500 5.0 6.5-9.0 126 93 1423 Twin Buttes Reservoir PCR1 H PS 200 100 700 5.0 6.5-9.0 126 93 1424 Middle Concho/South Concho River PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1426 Reservoir PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1427 Onion Creek PCR1 H PS/APi 100i 100i 500i 5.0 6.5-9.0 126 90 1428 Lake/Town Lake PCR1 H PS 100i 100i 500i 5.0 6.5-9.0 126 90 1429 Lady Bird Lake/Town Lake PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1444 O. H. Ivie Res	1416	San Saba River	PCR1		PS		50	50	425	5.0	6.5-9.0	126	90
1419 Lake Coleman PCR1 H PS 150 100 500 5.0 6.5-9.0 126 93 1420 Pecan Bayou Above Lake Brownwood PCR1 H PS 500 500 1.500 5.0 6.5-9.0 126 90 1421 Concho River PCR1 H PS 610 420 1,730 5.0 6.5-9.0 126 90 1422 Lake Nasworthy PCR1 H PS 450 400 1,500 5.0 6.5-9.0 126 93 1423 Twin Buttes Reservoir PCR1 H PS 200 100 700 5.0 6.5-9.0 126 93 1424 Middle Concho/South Concho River³ PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1426 Reservoir PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1427 Onion Creek PCR1 H PS/AP³ 100° 100° 500° 5.0 6.5-9.0 126 90 1428 Colorado River Below Lady Bird 1428 Lake/Town Lake PCR1 H PS 100° 100° 500° 5.0 6.5-9.0 126 90 1430 Barton Creek³ PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-	1417	Lower Pecan Bayou	PCR1	Н			310	120	1,025	5.0	6.5-9.0	126	90
1420 Pecan Bayou Above Lake Brownwood PCR1 H PS 500 500 1,500 5.0 6.5-9.0 126 90 1421 Concho River PCR1 H PS 610 420 1,730 5.0 6.5-9.0 126 90 1422 Lake Nasworthy PCR1 H PS 450 400 1,500 5.0 6.5-9.0 126 93 1423 Twin Buttes Reservoir PCR1 H PS 200 100 700 5.0 6.5-9.0 126 93 1424 Middle Concho/South Concho River³ PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1426 Reservoir PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1427 Onion Creek PCR1 H PS/AP⁴ 100³ 100³ 500° 5.0 6.5-9.0 126 90 1428 Lake/Town Lake PCR1 E PS 100 100 500 6.0° 6.5-9.0 126 90 1429 Lady Bird Lake/Town Lake PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek³ PCR1 H AP⁴ 50 50 50 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1434 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126	1418	Lake Brownwood	PCR1	Н	PS		150	100	500	5.0	6.5-9.0	126	90
1421 Concho River PCR1 H PS 610 420 1,730 5.0 6.5-9.0 126 90 1422 Lake Nasworthy PCR1 H PS 450 400 1,500 5.0 6.5-9.0 126 93 1423 Twin Buttes Reservoir PCR1 H PS 200 100 700 5.0 6.5-9.0 126 90 1424 Middle Concho/South Concho River³ PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1426 Reservoir PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1427 Onion Creek PCR1 H PS 1,000 1,100 1,770 5.0 6.5-9.0 126 91 1428 Lake/Town Lake PCR1 H PS 100 100 500 6.06 6.5-9.0 126 95 1429 Lady Bird Lake/Town Lake PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek* PCR1 H AP4 500 500 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93 1428 Lake/Town Lake PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93 1430 PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93 1440	1419	Lake Coleman	PCR1	Н			150	100		5.0	6.5-9.0	126	93
1422 Lake Nasworthy PCR1 H PS 450 400 1,500 5.0 6.5-9.0 126 93 1423 Twin Buttes Reservoir PCR1 H PS 200 100 700 5.0 6.5-9.0 126 90 1424 Middle Concho/South Concho River³ PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 Colorado River Below E.V. Spence PCR1 H PS 1,000 1,100 1,770 5.0 6.5-9.0 126 91 1426 Reservoir PCR1 H PS/AP³ 100° 100° 50° 6.5-9.0 126 91 1427 Onion Creek PCR1 H PS/AP³ 100° 100° 50° 6.5-9.0 126 90 1428 Lake/Town Lake <td>1420</td> <td>Pecan Bayou Above Lake Brownwood</td> <td>PCR1</td> <td>Н</td> <td></td> <td></td> <td></td> <td>500</td> <td>1.500</td> <td></td> <td>6.5-9.0</td> <td>126</td> <td>90</td>	1420	Pecan Bayou Above Lake Brownwood	PCR1	Н				500	1.500		6.5-9.0	126	90
1423 Twin Buttes Reservoir PCR1 H PS 200 100 700 5.0 6.5-9.0 126 90 1424 Middle Concho/South Concho River³ PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 Colorado River Below E.V. Spence PCR1 H PS 1,000 1,100 1,770 5.0 6.5-9.0 126 90 1426 Reservoir PCR1 H PS 1,000 1,100 1,770 5.0 6.5-9.0 126 91 1427 Onion Creek PCR1 H PS/AP³ 100³ 100³ 500⁵ 5.0 6.5-9.0 126 90 1428 Lake/Town Lake PCR1 E PS 100 100 500 6.0° 6.5-9.0 126 95 <t< td=""><td>1421</td><td>Concho River</td><td>PCR1</td><td>Н</td><td></td><td>V</td><td>610</td><td>420</td><td>1,730</td><td>>5.0</td><td>6.5-9.0</td><td>126</td><td></td></t<>	1421	Concho River	PCR1	Н		V	610	420	1,730	> 5.0	6.5-9.0	126	
1424 Middle Concho/South Concho River3 PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90 1426 Reservoir PCR1 H PS 1.000 1,100 1,770 5.0 6.5-9.0 126 91 1427 Onion Creek PCR1 H PS/AP4 1003 1003 5005 5.0 6.5-9.0 126 90 Colorado River Below Lady Bird Colorado River Below Lady Bird Lake/Town Lake PCR1 E PS 100 100 500 6.06 6.5-9.0 126 95 1428 Lady Bird Lake/Town Lake PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek8 PCR1 H AP4 50 50 500 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1432 Upper Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93	1422	Lake Nasworthy	PCR1				450	400	1,500	5.0	6.5-9.0	126	93
1425 O. C. Fisher Lake PCR1 H PS 150 150 700 5.0 6.5-9.0 126 90	1423	Twin Buttes Reservoir	PCR1	Н			200	100	700	5.0	6.5-9.0	126	90
Colorado River Below E.V. Spence PCR1 H PS 1,000 1,100 1,770 5.0 6.5-9.0 126 91	1424	Middle Concho/South Concho River ³	PCR1	Н						5.0	6.5-9.0	126	
1426 Reservoir PCR1 H PS 1,000 1,100 1,770 5.0 6.5-9.0 126 91 1427 Onion Creek PCR1 H PS/AP4 100 ⁵ 100 ⁵ 500 ⁵ 5.0 6.5-9.0 126 90 Colorado River Below Lady Bird Lake/Town Lake PCR1 E PS 100 100 500 6.0 ⁶ 6.5-9.0 126 95 1428 Lake/Town Lake PCR1 H PS 75 75 400 5.0 6.5-9.0 126 95 1429 Lady Bird Lake/Town Lake ⁷ PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek ⁸ PCR1 H AP ⁴ 50 50 50 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 <	1425	O. C. Fisher Lake	PCR1	Н	PS		150	150	700	5.0	6.5-9.0	126	90
1427 Onion Creek PCR1 H PS/AP4 1005 1005 5005 5.0 6.5-9.0 126 90 Colorado River Below Lady Bird Lake/Town Lake PCR1 E PS 100 100 500 6.06 6.5-9.0 126 95 1429 Lady Bird Lake/Town Lake ⁷ PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek ⁸ PCR1 H AP ⁴ 50 50 500 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1432 Upper Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93		Colorado River Below E.V. Spence											
Colorado River Below Lady Bird E PS 100 100 500 6.06 6.5-9.0 126 95 1429 Lady Bird Lake/Town Lake PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek PCR1 H AP4 50 50 500 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1432 Upper Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93 93 1438 1,520	1426	Reservoir	PCR1	Н			1.000	1,100	1,770	5.0	6.5-9.0	126	91
1428 Lake/Town Lake PCR1 E PS 100 100 500 6.06 6.5-9.0 126 95 1429 Lady Bird Lake/Town Lake ⁷ PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek ⁸ PCR1 H AP ⁴ 50 50 50 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1432 Upper Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93	1427	Onion Creek	PCR1	Н	PS/AP ⁴		100^{5}	100^{5}	500⁵	5.0	6.5-9.0	126	90
1429 Lady Bird Lake/Town Lake ⁷ PCR1 H PS 75 75 400 5.0 6.5-9.0 126 90 1430 Barton Creek ⁸ PCR1 H AP ⁴ 50 50 500 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1432 Upper Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93		Colorado River Below Lady Bird											
1430 Barton Creek8 PCR1 H AP4 50 50 50 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 410 120 1,100 2.0 6.5-9.0 126 90 1432 Upper Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93	1428	Lake/Town Lake	PCR1	E			100			6.0^{6}	6.5-9.0		
1430 Barton Creek ⁸ PCR1 H AP ⁴ 50 50 500 5.0 6.5-9.0 126 90 1431 Mid Pecan Bayou PCR1 H PS 410 120 1,100 2.0 6.5-9.0 126 90 1432 Upper Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93	1429										6.5-9.0		
1432 Upper Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93	1430	Barton Creek ⁸	PCR1	Н	AP^4				500	5.0	6.5-9.0	126	90
1432 Upper Pecan Bayou PCR1 H PS 200 150 800 5.0 6.5-9.0 126 90 1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93	1431	Mid Pecan Bayou	PCR1				410	120	1,100	2.0	6.5-9.0	126	90
1433 O. H. Ivie Reservoir PCR1 H PS 430 330 1,520 5.0 6.5-9.0 126 93				Н	PS		200	150	800	5.0		126	90
			PCR1		PS		430	330	1,520	> 5.0	6.5-9.0	126	
		Colorado River Above La Grange			PS		100		500				

- The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci. The indicator bacteria for Segment 1412 is Enterococci.
- The critical low-flow for the South Llano River portion of the segment is calculated according to §307.8(a)(2)(B) of this title.
- The critical low-flow for the South Concho River portion of the segment is calculated according to §307.8(a)(2)(B) of this title.
- 4 The aquifer protection use applies to the contributing, recharge, and transition zones of the Edwards Aquifer.
- The aquifer protection reach is assigned the following criteria: 50 mg/L for Cl^{-1} , 50 mg/L for SO_4^{-2} , 400 mg/L for TDS.
- Dissolved oxygen criterion of 6.0 mg/L only applies at stream flows greater than or equal to 150 cfs as measured at USGS Gauging Station 08158000 located in Travis County upstream from US Highway 183. A dissolved oxygen criterion of 5.0 mg/L applies to stream flows less than 150 cfs and greater than or equal to the 7Q2 for the segment.
- While the segment exhibits quality characteristics that would make it suitable for primary recreation, the use is prohibited by local regulation for reasons unrelated to water quality.
- 8 The critical low-flow is calculated according to §307.8(a)(2)(A) of this title.

Colorado-Lavaca Coastal Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	рН	Indicator	
Segment	Colorado-Lavaca Coastal Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1501	Tres Palacios Creek Tidal	PCR1	Е						5.0	6.5-9.0	35	95
1502	Tres Palacios Creek Above Tidal	PCR1	Н			250	100	800	5.0	6.5-9.0	126	90

1 The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.

Lavaca River Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Lavaca River Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1601	Lavaca River Tidal	PCR1	Н						4.0	6.5-9.0	35	95
1602	Lavaca River Above Tidal	PCR1	Н	PS		200	100	700	5.0	6.5-9.0	126	91
1603	Navidad River Tidal	PCR1	Н						4.0	6.5-9.0	35	91
1604	Lake Texana	PCR1	Н	PS		100	50	500	5.0	6.5-9.0	126	93
1605	Navidad River Above Lake Texana	PCR1	Н	PS		100	50	550	5.0	6.5-9.0	126	91

¹ The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.

Lavaca-Guadalupe Coastal Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	рН	Indicator	
Segment	Lavaca-Guadalupe Coastal Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1701	Victoria Barge Canal Tidal	NCR	Н						4.0	6.5-9.0	35	95

1 The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.

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EPA is reviewing and has not approved the revised temperature criteria for segments 1811 and 1814. For segment 1811, the criterion of 90 degrees F remains in effect for CWA purposes.

Guadalupe River Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Guadalupe River Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1801	Guadalupe River Tidal	PCR1	E						5.0	6.5-9.0	35	95
	Guadalupe River Below San Antonio											
1802	River	PCR1	Н	PS		150	100	700	5.0	6.5-9.0	126	93
	Guadalupe River Below San Marcos											
1803	River	PCR1	Н	PS		100	100	500	5.0	6.5-9.0	126	93
1804	Guadalupe River Below Comal River	PCR1	Н	PS/AP ²		100	50	400	5.0	6.5-9.0	126	90
1805	Canyon Lake	PCR1	E	PS/AP ²		50	50	400	6.0	6.5-9.0	126	90
1806	Guadalupe River Above Canyon Lake	PCR1	E	PS/AP ²		50	50	400	6.0	6.5-9.0	126	90
1807	Coleto Creek	PCR1	Н	PS		250	100	500	5.0	6.5-9.0	126	93
1808	Lower San Marcos River ³	PCR1	Н	PS		60	50	400	5.0	6.5-9.0	126	90
1809	Lower Blanco River	PCR1	Н	PS/AP ²		50	50	400	5.0	6.5-9.0	126	92
1810	Plum Creek	PCR1	Н	AP^2		350	150	1,120	5.0	6.5-9.0	126	90
1811	Comal River ⁴	PCR1	Н	PS/AP ²		50	50	400	5.0	6.5-9.0	126	80^{5}
1812	Guadalupe River Below Canyon Dam	PCR1	E	PS/AP ²		50	50	400	6.0	6.5-9.0	126	90
1813	Upper Blanco River³	PCR1	E	PS/AP ²		50	50	400	6.0	6.5-9.0	126	92
1814	Upper San Marcos River ⁴	PCR1	E	AP^2		50	50	400	6.0	6.5-9.0	126	80^{6}
1815	Cypress Creek	PCR1	E	PS/AP ²		50	50	400	6.0	6.5-9.0	126	86
1816	Johnson Creek	PCR1	Е	PS		50	50	400	6.0	6.5-9.0	126	86
1817	North Fork Guadalupe River ³	PCR1	E	PS		50	50	400	6.0	6.5-9.0	126	86
1818	South Fork Guadalupe River	PCR1	E	PS		50	50	400	6.0	6.5-9.0	126	86

- 1 The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.
- The aquifer protection use applies to the contributing, recharge, and transition zones of the Edwards Aquifer.
- The critical low-flow is calculated according to §307.8(a)(2)(B) of this title.
- The critical low-flow is calculated according to §307.8(a)(2)(A) of this title.
- A temperature criterion of 78°F applies from the Landa Lake Park Dam immediately upstream of Landa Park Drive upstream to Klingemann Street in New Braunfels in Comal County (excludes the western channel at Spring Island, the eastern channel at Pecan Island, and Blieders Creek arm of Landa Lake upstream of the springs in the upper spring run reach).
- A temperature criterion of 78°F applies from the confluence with Sessom's Creek approximately 1.5 km (0.9 mi) upstream of Rio Vista Dam upstream to a point 0.7 km (0.4 mi) upstream of Loop 82 in San Marcos in Hays County (excludes the slough arm of Spring Lake).

San Antonio River Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	рН	Indicator	
Segment	San Antonio River Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
1901	Lower San Antonio River	PCR1	Н			180	140	750	5.0	6.5-9.0	126	90
1902	Lower Cibolo Creek	PCR1	Н			170	275	900	5.0	6.5-9.0	126	90
	Medina River Below Medina Diversion											
1903	Lake	PCR1	Н	PS^2/AP^3		120	120	700	5.0	6.5-9.0	126	90
1904	Medina Lake	PCR1	Н	PS/AP ³		80	75	350	5.0	6.5-9.0	126	88
1905	Medina River Above Medina Lake ⁴	PCR1	E	PS		50	150	400	6.0	6.5-9.0	126	88
1906	Lower Leon Creek	PCR1	Н	PS^5		120	120	700	5.0	6.5-9.0	126	95
1907	Upper Leon Creek	PCR1	Н	PS/AP ³		55	240	550	5.0	6.5-9.0	126	95
1908	Upper Cibolo Creek	PCR1	Н	PS/AP ³		50	100	600	5.0	6.5-9.0	126	90
1909	Medina Diversion Lake	PCR1	Н	PS/AP ³		50	75	400	5.0	6.5-9.0	126	90
1910	Salado Creek	PCR1	Н	PS/AP ³		140	200	600	5.0	6.5-9.0	126	90
1911	Upper San Antonio River	PCR1	Н			150	150	750	5.0	6.5-9.0	126	90
1912	Medio Creek	PCR1	I			150	150	750	4.0	6.5-9.0	126	95
1913	Mid Cibolo Creek ⁶	PCR1	L			150	150	750	3.0	6.5-9.0	126	90

EPA took no action on the withdrawn revisions to segment 1913 (Middle Cibolo Creek). The 2014 WQS remain effective for CWA purposes.

6

The indicator bacteria for freshwater is *E. coli*.

- The public water supply designation does not apply from the confluence of the San Antonio River in Bexar County upstream to a point 2.5 km (1.5 mi) upstream of the confluence of Leon Creek.
- The aquifer protection use applies to the contributing, recharge, and transition zones of the Edwards Aquifer.
- 4 The critical low-flow is calculated according to §307.8(a)(2)(B) of this title.
- The public water supply designation does not apply from the confluence of the Medina River in Bexar County to a point 4.8 km (3.0 mi) upstream.
 - The segment is an intermittent stream with perennial pools.

San Antonio-Nueces Coastal Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	San Antonio-Nueces Coastal Basin	Recreation	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
2001	Mission River Tidal	PCR1	Н						4.0	6.5-9.0	35	95
2002	Mission River Above Tidal	PCR1	Н			850	100	2,000	5.0	6.5-9.0	126	95
2003	Aransas River Tidal	PCR1	Н						4.0	6.5-9.0	35	95
2004	Aransas River Above Tidal	PCR1	Н			450	100	1,700	5.0	6.5-9.0	126	95

¹ The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.

Nueces River Basin Designated Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Nueces River Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
2101	Nueces River Tidal	PCR1	Н						4.0	6.5-9.0	35	95
	Nueces River Below Lake Corpus							500				
2102	Christi	PCR1	Н	PS		250	250		5.0	6.5-9.0	126	91
2103	Lake Corpus Christi	PCR1	Н	PS		250	250	750	5.0	6.5-9.0	126	93
2104	Nueces River Above Frio River	PCR1	Н	PS		700	300	1,500	5.0	6.5-9.0	126	90
2105	Nueces River Above Holland Dam	PCR1	Н	PS		200	200	900	5.0	6.5-9.0	126	90
2106	Nueces/Lower Frio River	PCR1	Н	PS	•	285^{2}	145^{2}	735 ²	5.0	6.5-9.0	126	90
2107	Lower Atascosa River	PCR1	Н	PS		400	300	1,650	4.0	6.5-9.0	126	90
2108	San Miguel Creek	PCR1	Н	PS		700	700	2,000	5.0	6.5-9.0	126	95
2109	Leona River³	PCR1	Н	PS/AP ⁴		650	500	2,000	5.0	6.5-9.0	126	90
2110	Lower Sabinal River	PCR1	Н	PS		200	100	700	5.0	6.5-9.0	126	90
2111	Upper Sabinal River	PCR1	Н	PS/AP ⁴		50	75	500	5.0	6.5-9.0	126	90
2112	Upper Nueces River	PCR1	Н	PS/AP ⁴		50	50	400	5.0	6.5-9.0	126	90
2113	Upper Frio River ³	PCR1	E	PS/AP ⁴		50	50	400	6.0	6.5-9.0	126	90
2114	Hondo Creek	PCR1	Н	PS/AP ⁴		50	100	400	5.0	6.5-9.0	126	90
2115	Seco Creek	PCR1	Н	PS/AP ⁴		50	70	400	5.0	6.5-9.0	126	90
2116	Choke Canyon Reservoir	PCR1	Н	PS		250	250	720	5.0	6.5-9.0	126	90
	Frio River Above Choke Canyon		_									
2117	Reservoir	PCR1	Н	PS/AP ⁴		620	380	1,700	5.0	6.5-9.0	126	90
2118	Upper Atascosa River	PCR1	I			350	700	1,550	4.0	6.5-9.0	126	90



The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.



A TDS criterion of 735 mg/L, a Cl⁻¹ criterion of 285 mg/L, and a SO₄⁻² criterion of 145 mg/L will apply for the Frio River portion of the segment from the confluence of the Nueces River upstream to Choke Canyon Dam. A TDS criterion of 950 mg/L, a Cl⁻¹ criterion of 350 mg/L, and a SO₄⁻² criterion of 165 mg/L will apply for the Nueces River portion of the segment from a point 100 meters upstream of US 59 in Live Oak County upstream to the confluence of the Frio River. A site-specific conversion factor of 0.58 was used to calculate the TDS criteria.

- The critical low-flow is calculated in accordance with §307.8(a)(2)(B) of this title.
- The aquifer protection use applies to the contributing, recharge, and transition zones of the Edwards Aquifer.

EPA is reviewing revised minerals criteria for segments 2103, 2106, 2107, 2116, and 2118. The 2010 TDS criterion of 500 mg/L remains in effect for segment 2103. For segments 2107 and 2118, the 2010 chloride, sulfate, and TDS criteria (600 mg/L, 500 mg/L, and 1,500 mg/L, respectively) remain in effect.

Nueces-Rio Grande Coastal Basin Designated Uses and Numeric Criteria

		_	Aquatic	Domestic				_	Dissolved	рН	Indicator	
Segment	Nueces-Rio Grande Coastal Basin	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
2201	Arroyo Colorado Tidal	PCR1	Н						4.0	6.5-9.0	35	95
2202	Arroyo Colorado Above Tidal	PCR1	I			1,200	1,000	4,000	4.0	6.5-9.0	126	95
2203	Petronila Creek Tidal	PCR1	H						4.0	6.5-9.0	35	95
2204	Petronila Creek Above Tidal ²	PCR1	I			1,500	500	4,000	4.0	6.5-9.0	126	95

- 1 The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci.
- High concentrations of Cl^{-1} , SO_4^{-2} , and TDS are due to past brine discharges that were halted effective January 10, 1987 by order of the Texas Railroad Commission. Water quality is expected to improve as residual brines are flushed from the system. These estimated criteria are subject to modification as improvement in water quality is documented.

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EPA is reviewing and has not approved revised aquatic life use and the 24-hour minimum dissolved oxygen criterion in segment 2311.

EPA is also reviewing new/revised minerals criteria for segments 2306 and 2315. For segments 2306 and 2315, the 2010 criteria for chloride, sulfate, and TDS (300 mg/L, 570 mg/L, and 1,550 mg/L, respectively) remain in effect for CWA

Rio Grande Basin Designated Uses and Numeric Criteria

Segment	Rio Grande Basin	Recreation	Aquatic	Domestic	Other	Cl ⁻¹	SO ₄ -2	TDS	Dissolved	pН	Indicator	Temperature
No.	Segment Names	Use	Life Use	Water Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	Oxygen (mg/L)	Range (SU)	Bacteria¹ #/100 mL	(degrees F)
2301	Rio Grande Tidal	PCR1	E	Заррту Озс					5.0	6.5-9.0	35	95
2302	Rio Grande Below Falcon Reservoir	PCR1	H	PS		270	350	880	5.0	6.5-9.0	126	90
2303	International Falcon Reservoir	PCR1	H	PS		200	300	1,000	5.0	6.5-9.0	126	93
2304	Rio Grande Below Amistad	PCR1	H	PS		200	300	1,000	5.0	6.5-9.0	126	95
2304	Reservoir	rcki	11	13		200	300	1,000	3.0	0.3-9.0	120	93
2305	International Amistad Reservoir	PCR1	Н	PS		150	270	800	5.0	6.5-9.0	126	88
2306	Rio Grande Above Amistad Reservoir	PCR1	Н	PS		200	450	1,400	5.0	6.5-9.0	126	93
2307	Rio Grande Below Riverside Diversion Dam	PCR1	Н	PS		300	550	1,500	5.0	6.5-9.0	126	93
2308	Rio Grande Below International Dam	NCR	L			250	450	1,400	3.0	6.5-9.0	605	95
2309	Devils River ²	PCR1	Е	PS		50	50	300	6.0	6.5-9.0	126	90
2310	Lower Pecos River	PCR1	Н	PS		1,700	1,000	4,000	5.0	6.5-9.0	126	92
2311	Upper Pecos River	PCR1	L			7,000	3,500	15,000	5.0^{3}	6.5-9.0	33	92
2312	Red Bluff Reservoir	PCR1	H			3,200	2,200	9,400	5.0	6.5-9.0	33	90
2313	San Felipe Creek ²	PCR1	Н	PS		50	50	400	5.0	6.5-9.0	126	90
2314	Rio Grande Above International Dam	PCR1	Н	PS		340	600	1,800	5.0	6.5-9.0	126	92
2315	Rio Grande Below Rio Conchos	PCR1	Н		(450	750	2,100	5.0	6.5-9.0	126	93

- The indicator bacteria for freshwater is *E. coli* and for saltwater is Enterococci. The indicator bacteria for Segments 2311 and 2312 is Enterococci.
- 2 The critical low-flow is calculated in accordance with §307.8(a)(2)(A) of this title.
- The 24-hour minimum dissolved oxygen criterion is 1.0 mg/L.

Bays and Estuaries Uses and Numeric Criteria

	Bays and Estuaries Uses and N	<u>umeric Crite</u>	eria									
			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Bays and Estuaries	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
2411	Sabine Pass	PCR1	E/O						5.0	6.5-9.0	35/14	95
2412	Sabine Lake	PCR1	H/O						4.0	6.5-9.0	35/14	95
2421	Upper Galveston Bay	PCR1	H/O						4.0	6.5-9.0	35/14	95
2422	Trinity Bay	PCR1	H/O						4.0	6.5-9.0	35/14	95
2423	East Bay	PCR1	H/O						4.0	6.5-9.0	35/14	95
2424	West Bay	PCR1	H/O						4.0	6.5-9.0	35/14	95
2425	Clear Lake	PCR1	Н						4.0	6.5-9.0	35	95
2426	Tabbs Bay	PCR1	Н						4.0	6.5-9.0	35	95
2427	San Jacinto Bay	PCR1	Н						4.0	6.5-9.0	35	95
2428	Black Duck Bay	PCR1	Н						4.0	6.5-9.0	35	95
2429	Scott Bay	PCR1	Н						4.0	6.5-9.0	35	95
2430	Burnet Bay	PCR1	Н						4.0	6.5-9.0	35	95
2431	Moses Lake	PCR1	Н						4.0	6.5-9.0	35	95
2432	Chocolate Bay	PCR1	H/O						4.0	6.5-9.0	35/14	95
2433	Bastrop Bay/Oyster Lake	PCR1	H/O						4.0	6.5-9.0	35/14	95
2434	Christmas Bay	PCR1	H/O						4.0	6.5-9.0	35/14	95
2435	Drum Bay	PCR1	H/O						4.0	6.5-9.0	35/14	95
2436	Barbours Cut	PCR1	H						4.0	6.5-9.0	35	95
2437	Texas City Ship Channel	NCR	Н						4.0	6.5-9.0	35	95
2438	Bayport Channel	NCR	Н						4.0	6.5-9.0	35	95
2439	Lower Galveston Bay	PCR1	H/O						4.0	6.5-9.0	35/14	95
2441	East Matagorda Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2442	Cedar Lakes	PCR1	H/O						4.0	6.5-9.0	35/14	95
2451	Matagorda Bay/Powderhorn Lake	PCR1	E/O						5.0	6.5-9.0	35/14	95
2452	Tres Palacios/Turtle Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2453	Lavaca Bay/Chocolate Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2454	Cox Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2455	Keller Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2456	Carancahua Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2461	Espiritu Santo Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2462	San Antonio Bay/Hynes	PCR1	E/O						5.0	6.5-9.0	35/14	95
	Bay/Guadalupe Bay/Mission Lake											
2463	Mesquite Bay/Carlos Bay/Ayres Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2471	Aransas Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2472	Copano Bay/Port Bay/Mission Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2473	St. Charles Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2481	Corpus Christi Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2482	Nueces Bay ²	PCR1	E/O						5.0	6.5-9.0	35/14	95
2483	Redfish Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95

			Aquatic	Domestic					Dissolved	рН	Indicator	
Segment	Bays and Estuaries	Recreation	Life	Water	Other	Cl^{-1}	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
2484	Corpus Christi Inner Harbor	NCR	I						3.0		35	95
2485	Oso Bay	PCR1	E/O						4.5 ³	6.5-9.0	35/14	95
2486	Blind Oso Bay	PCR1	E/O						4.5^{4}	6.5-9.0	35/14	95
2490	Upper Laguna Madre	PCR1	E/O						4.5^{3}	6.5-9.0	35/14	95
2491	Lower Laguna Madre	PCR1	E/O						5.0	6.5-9.0	35/14	95
	Baffin Bay/Alazan Bay/Cayo del											
2492	Grullo/Laguna Salada	PCR1	H/O						4.0	6.5-9.0	35/14	95
2493	South Bay	PCR1	E/O						5.0	6.5-9.0	35/14	95
2494	Brownsville Ship Channel	NCR	E						5.0	6.5-9.0	35	95

- The indicator bacteria for recreational suitability in saltwater is Enterococci. The indicator bacteria for oyster water use is fecal coliform.
- For assessment purposes only, the acute aquatic life criterion for zinc is 29 μg/L. This is based on the zinc TMDL approved November 1, 2006, and the Implementation Plan approved October 24, 2007.
- The 24-hour minimum dissolved oxygen criteria is 3.5 mg/L.
- A 24-hour average dissolved oxygen criterion of 4.0 mg/L and a 24-hour minimum dissolved oxygen criterion of 1.5 mg/L apply from March 15 to October 15. During the remainder of the year, a 24-hour minimum dissolved oxygen criterion of 3.5 mg/L applies to the segment.

EPA is reviewing and has not approved the revised dissolved oxygen criteria in segment 2490. For CWA purposes, the previously-approved criteria of 5.0 mg/L (24-hour mean) and 4.0 mg/L (24-hour minimum) continue to apply.

Gulf of Mexico Uses and Numeric Criteria

			Aquatic	Domestic					Dissolved	pН	Indicator	
Segment	Gulf of Mexico	Recreatio	Life	Water	Other	Cl ⁻¹	SO_4^{-2}	TDS	Oxygen	Range	Bacteria ¹	Temperature
No.	Segment Names	n Use	Use	Supply Use	Uses	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(SU)	#/100 mL	(degrees F)
2501	Gulf of Mexico	PCR1	E/O	_		_	_	-	5.0	6.5-9.0	35/14	95

1 The indicator bacteria for recreational suitability in saltwater is Enterococci. The indicator bacteria for oyster water use is fecal coliform.

Appendix B - Sole-source Surface Drinking Water Supplies

This table contains sole-source surface drinking water supplies as provided by the TCEQ Drinking Water Protection Team. This table is current as of February 11, 2016. Where a water body has been identified as a sole-source surface drinking water supply but is not included in this appendix yet, the same level of protection may be applied. If designations of sole-source surface drinking water supplies change, those designations can be changed by laws or regulations that address sole-source surface drinking water supplies. Sole-source protection zones of sole-source surface drinking water supplies are defined in §307.3 of this title (relating to Definitions and Abbreviations).

The listed county names provide the general location of these drinking water supplies. The segment numbers listed below are only provided to help in finding the general location of a sole-source water body and are associated with classified segments as listed in Appendices A and C of this section. Segment numbers in parentheses () indicate that the water body is in close proximity to the segment listed, but not a part of the segment. For a current list and the precise location of a sole-source surface drinking water supply, contact the TCEQ Drinking Water Protection Team.

Water Body Name	County	Segment No.
Lake Texoma	Grayson	0203
Lake Arrowhead	Clay	0212
Lake Kickapoo	Archer	0213
Greenbelt Lake	Donley	0223
Mackenzie Reservoir	Briscoe	0228
Wright Patman Lake	Cass	0302
Big Creek Lake	Delta	(0303)
Big Cypress Creek Below Lake O' the Pines	Harrison	0402
Lake O' the Pines	Marion	0403
Lake Cypress Springs	Franklin	0405
Lake Bob Sandlin	Camp, Titus	0408
Toledo Bend Reservoir	Sabine, Shelby	0504
Lake Tawakoni	Hunt, Rains, Van Zandt, Kaufman	0507
Lake Murvaul	Panola	0509
Lake Fork Reservoir	Wood	0512
Big Sandy Creek	Upshur	0514
Lower Neches Valley Authority Canal	Hardin, Jefferson	(0602)

Water Body Name	County	Segment No.
Neches River Below Lake Palestine	Anderson	0604
Lake Palestine	Smith	0605
Lake Livingston	Polk, Trinity	0803
Trinity River Above Lake Livingston	Walker	0804
Eagle Mountain Reservoir	Tarrant	0809
Bridgeport Reservoir	Wise	0811
Houston County Lake	Houston	0813
Bardwell Reservoir	Ellis	0815
Cedar Creek Reservoir	Kaufman, Henderson	0818
Elm Fork Trinity River Below Lewisville Lake	Dallas	0822
Lake Grapevine	Denton, Tarrant	0826
Lake Arlington	Tarrant	0828
Richland-Chambers Reservoir	Navarro	0836
Lake Houston	Harris	1002
Lake Granbury	Hood	1205
Possum Kingdom Lake	Palo Pinto	1207
Navasota River Below Lake Limestone	Brazos, Grimes, Leon, Madison, Robertson	1209
Somerville Lake	Washington	1212
Little River	Milam	1213
Leon River Below Belton Lake	Bell	1219
Belton Lake	Bell	1220
Proctor Lake	Comanche	1222
Leon Reservoir	Eastland	1224
Waco Lake	McLennan	1225
Lake Palo Pinto	Palo Pinto	1230
Lake Graham/Lake Eddleman	Young	1231
Hubbard Creek Reservoir	Stephens	1233
Lake Cisco	Eastland	1234
Granger Lake	Williamson	1247
Navasota River Below Lake Mexia	Limestone	1253
Aquilla Reservoir	Hill	1254

Water Body Name	County	Segment No.
Lake Austin	Travis	1403
Lake Travis	Burnet, Travis	1404
Marble Falls Lake	Burnet	1405
Lake Lyndon B. Johnson	Burnet, Llano	1406
Inks Lake	Burnet, Llano	1407
Lake Buchanan	Llano	1408
Pedernales River	Blanco	1414
South Llano River (part of Llano River)	Kimble	1415
Llano City Lake (part of Llano River)	Llano	1415
Lake Brownwood	Brown	1418
Lake Coleman	Coleman	1419
Lake Dunlap (part of Guadalupe River Below Comal River)	Guadalupe	1804
Canyon Lake	Comal	1805
Guadalupe River Below Canyon Dam	Comal	1812
Lake Corpus Christi	San Patricio, Live Oak	2103
Rio Grande Below Falcon Reservoir	Starr	2302
International Falcon Reservoir	Starr, Zapata	2303
Rio Grande Below Amistad Reservoir	Maverick, Webb	2304

Appendix C - Segment Descriptions

The following descriptions define the geographic extent of the state's classified segments. Boundaries of bay and estuary segments have not been precisely defined.

SEGMENT DESCRIPTION

- 0101 Canadian River Below Lake Meredith from the Oklahoma State Line in Hemphill County to Sanford Dam in Hutchinson County
- 0102 Lake Meredith from Sanford Dam in Hutchinson County to a point immediately upstream of the confluence of Camp Creek in Potter County, up to the normal pool elevation of 2936.5 feet (impounds Canadian River)
- 0103 Canadian River Above Lake Meredith from a point immediately upstream of the confluence of Camp Creek in Potter County to the New Mexico State Line in Oldham County
- 0104 Wolf Creek from the Oklahoma State Line in Lipscomb County to a point 2.0 km (1.2 mi) upstream of FM 3045 in Ochiltree County
- 0105 Rita Blanca Lake from Rita Blanca Dam in Hartley County up to the normal pool elevation of 3860 feet (impounds Rita Blanca Creek)
- 0201 Lower Red River from the Arkansas State Line in Bowie County to the Arkansas-Oklahoma State Line in Bowie County
- 0202 Red River Below Lake Texoma from the Arkansas-Oklahoma State Line in Bowie County to Denison Dam in Grayson County
- 0203 Lake Texoma from Denison Dam in Grayson County to a point immediately upstream of the confluence of Sycamore Creek in Cooke County, up to the normal pool elevation of 617 feet (impounds Red River)
- 0204 Red River Above Lake Texoma from a point immediately upstream of the confluence of Sycamore Creek in Cooke County to the confluence of the Wichita River in Clay County
- 0205 Red River Below Pease River from the confluence of the Wichita River in Clay County to the confluence of the Pease River in Wilbarger County
- 0206 Red River Above Pease River from the confluence of the Pease River in Wilbarger County to a point immediately upstream of the confluence of Buck Creek in Hardeman County

- 0207 Lower Prairie Dog Town Fork Red River from a point immediately upstream of the confluence of Buck Creek in Hardeman County to a point 100 meters (110 yards) upstream of the confluence of Salt Fork Creek in Armstrong County
- 0208 Lake Crook from Lake Crook Dam in Lamar County up to the normal pool elevation of 476 feet (impounds Pine Creek)
- 0209 Pat Mayse Lake from Pat Mayse Dam in Lamar County up to the normal pool elevation of 451 feet (impounds Sanders Creek)
- 0210 Farmers Creek Reservoir (also known as Lake Nocona) from Farmers Creek Dam in Montague County up to the normal pool elevation of 827.5 feet (impounds Farmers Creek)
- 0211 Little Wichita River from the confluence with the Red River in Clay County to Lake Arrowhead Dam in Clay County
- 0212 Lake Arrowhead from Lake Arrowhead Dam in Clay County up to the normal pool elevation of 926 feet (impounds the Little Wichita River)
- 0213 Lake Kickapoo from Kickapoo Dam in Archer County up to the normal pool elevation of 1045 feet (impounds North Fork Little Wichita River)
- 0214 Wichita River Below Diversion Lake from the confluence with the Red River in Clay County to Diversion Dam in Archer County
- 0215 Diversion Lake from Diversion Dam in Archer County to a point 1.5 km (0.9 mi) downstream of the confluence of Cottonwood Creek in Baylor County, up to the normal pool elevation of 1052 feet (impounds Wichita River)
- 0216 Wichita River Below Lake Kemp from a point 1.5 km (0.9 mi) downstream of the confluence of Cottonwood Creek in Baylor County to Lake Kemp Dam in Baylor County
- 0217 Lake Kemp from Lake Kemp Dam in Baylor County to a point 9.4 km (5.8 mi) downstream of the confluence of Crooked Creek in Baylor County, up to the normal pool elevation of 1144 feet (impounds Wichita River)
- 0218 Wichita/North Fork Wichita River from a point 9.4 km (5.8 mi) downstream of the confluence of Crooked Creek in Baylor County to a point 8.5 km (5.3 mi) downstream of the most upstream crossing of FM 193 in Dickens County
- 0219 Lake Wichita from Lake Wichita Dam in Wichita County up to the normal pool elevation of 980.5 feet (impounds Holliday Creek)

- 0220 Upper Pease/North Fork Pease River from the confluence with Canal Creek at the Hardeman-Foard county line to 6.0 km (3.7 mi) upstream of the confluence of Dick Moore Canyon in Floyd County
- 0221 Middle Fork Pease River from the confluence with the North Fork Pease River in Cottle County to the confluence of Boggy Creek and Mott Creek in Motley County
- 0222 Salt Fork Red River from the Oklahoma State Line in Collingsworth County to Greenbelt Dam in Donley County
- O223 Greenbelt Lake from Greenbelt Dam in Donley County up to the normal pool elevation of 2664 feet (impounds Salt Fork Red River)
- 0224 North Fork Red River from the Oklahoma State Line in Wheeler County to a point 4.0 km (2.5 mi) upstream of FM 2300 in Gray County
- 0225 McKinney Bayou from the Arkansas State Line in Bowie County to a point 100 meters (110 yards) upstream of the most upstream crossing of FM 1397 near King Lake in Bowie County
- 0226 South Fork Wichita River from the confluence with the North Fork Wichita River in Knox County to a point 15.0 km (9.3 mi) upstream of US 82 in Dickens County
- 0227 South Fork Pease River from the confluence with the Middle Fork Pease River in Cottle County to the confluence of Wolf Creek and Rustler Creek in Motley County
- 0228 Mackenzie Reservoir from Mackenzie Dam in Briscoe County up to the normal pool elevation of 3100 feet (impounds Tule Creek)
- 0229 Upper Prairie Dog Town Fork Red River from a point 100 meters (110 yards) upstream of the confluence of Salt Fork Creek in Armstrong County to Lake Tanglewood Dam in Randall County
- 0230 Pease River from the confluence with the Red River in Wilbarger County upstream to the confluence with Canal Creek at the Hardeman-Foard county line
- O301 Sulphur River Below Wright Patman Lake from the Arkansas State Line in Bowie/Cass County to Wright Patman Lake Dam in Bowie/Cass County
- 0302 Wright Patman Lake from Wright Patman Lake Dam in Bowie/Cass County to a point 1.5 km (0.9 mi) downstream of Bassett Creek in Bowie/Cass County, up to the normal pool elevation of 226.4 feet (impounds the Sulphur River)

- 0303 Sulphur/South Sulphur River from a point 1.5 km (0.9 mi) downstream of Bassett Creek in Bowie/Cass County to Jim L. Chapman Dam (formerly Cooper Lake dam) in Delta/Hopkins County
- 0304 Days Creek from the Arkansas State Line in Bowie County to the confluence of Swampoodle Creek and Nix Creek in Bowie County
- 0305 North Sulphur River from the confluence with the South Sulphur River in Lamar County to a point 6.7 km (4.2 mi) upstream of FM 68 in Fannin County
- 0306 Upper South Sulphur River from a point 1.0 km (0.7 mi) upstream of SH 71 in Delta/Hopkins County to SH 78 in Fannin County
- 0307 Jim L. Chapman Lake (formerly Cooper Lake) from Jim L. Chapman Dam in Delta/Hopkins County to a point 1.0 km (0.7 mi) upstream of SH 71 on the South Sulphur River arm in Delta/Hopkins County and 300 meters (275 yards) below the confluence of Barnett Creek on the Middle Sulphur River arm in Delta County, up to a conservation pool elevation of 440 feet (impounds the Middle Sulphur/South Sulphur River)
- O401 Caddo Lake from the Louisiana State Line in Harrison/Marion County to a point 12.3 km (7.6 mi) downstream of SH 43 in Harrison/Marion County, up to the normal pool elevation of 168.5 feet (impounds Big Cypress Creek)
- 0402 Big Cypress Creek Below Lake O' the Pines from a point 12.3 km (7.6 mi) downstream of SH 43 in Harrison/Marion County to Ferrell's Bridge Dam in Marion County
- 0403 Lake O' the Pines from Ferrell's Bridge Dam in Marion County to a point 1.0 km (0.6 mi) downstream of US 259 in Morris/Upshur County, up to the normal pool elevation of 228.5 feet (impounds Big Cypress Creek)
- 0404 Big Cypress Creek Below Lake Bob Sandlin from a point 1.0 km (0.6 mi) downstream of US 259 in Morris/Upshur County to Fort Sherman Dam in Camp/Titus County
- 0405 Lake Cypress Springs from Franklin County Dam in Franklin County up to the normal pool elevation of 378 feet (impounds Big Cypress Creek)
- 0406 Black Bayou from the Louisiana State Line in Cass County to FM 96 in Cass County
- 0407 James' Bayou from the Louisiana State Line in Marion County to Club Lake Road northwest of Linden in Cass County

- 0408 Lake Bob Sandlin from Fort Sherman Dam in Camp/Titus County to Franklin County Dam in Franklin County, up to the normal pool elevation of 337.5 feet (impounds Big Cypress Creek)
- 0409 Little Cypress Bayou (Creek) from the confluence with Big Cypress Creek in Harrison County to a point 1.0 km (0.6 mi) upstream of FM 2088 in Wood County
- 0410 Black Cypress Bayou (Creek) from the confluence with Big Cypress Creek in Marion County to the confluence with Kelly Creek in Cass County
- O501 Sabine River Tidal from the confluence with Sabine Lake in Orange County to Morgans Bluff in Orange County
- O502 Sabine River Above Tidal from Morgans Bluff in Orange County to the confluence with Caney Creek in Newton County
- O503 Sabine River Above Caney Creek from a point immediately upstream of the confluence with Caney Creek in Newton County up to Toledo Bend Dam in Newton County
- Toledo Bend Reservoir from Toledo Bend Dam in Newton County to a point immediately upstream of the confluence of Murvaul Creek in Panola County, up to the normal pool elevation of 172 feet (impounds Sabine River)
- O505 Sabine River Above Toledo Bend Reservoir from a point immediately upstream of the confluence of Murvaul Creek in Panola County to a point 100 meters (110 yards) downstream of US 271 in Gregg County
- O506 Sabine River Below Lake Tawakoni from a point 100 meters (110 yards) downstream of US 271 in Gregg County to Iron Bridge Dam in Rains County
- 0507 Lake Tawakoni from Iron Bridge Dam in Rains County up to the normal pool elevation of 437.5 feet (impounds Sabine River)
- O508 Adams Bayou Tidal from the confluence with the Sabine River in Orange County to a point 1.1 km (0.7 mi) upstream of IH 10 in Orange County
- 0509 Murvaul Lake from Murvaul Dam in Panola County up to the normal pool elevation of 265.3 feet (impounds Murvaul Bayou)
- 0510 Lake Cherokee from Cherokee Dam in Gregg/Rusk County up to the normal pool elevation of 280 feet (impounds Cherokee Bayou)

- O511 Cow Bayou Tidal from the confluence with the Sabine River in Orange County to a point 4.8 km (3.0 mi) upstream of IH 10 in Orange County
- 0512 Lake Fork Reservoir from Lake Fork Dam in Wood County up to the normal pool elevation of 403 feet (impounds Lake Fork Creek)
- 0513 Big Cow Creek from the confluence with the Sabine River in Newton County to a point 4.6 km (2.9 mi) upstream of Recreational Road 255 in Newton County
- 0514 Big Sandy Creek from the confluence with the Sabine River in Upshur County to a point 2.6 km (1.6 mi) upstream of SH 11 in Hopkins County
- 0515 Lake Fork Creek from the confluence with the Sabine River in Wood County to Lake Fork Dam in Wood County
- 0601 Neches River Tidal from the confluence with Sabine Lake in Orange County to the Neches River Saltwater Barrier, which is at a point 0.8 km (0.5 mi) downstream of the confluence of Pine Island Bayou, in Orange County
- Neches River Below B. A. Steinhagen Lake from the Neches River Saltwater Barrier, which is at a point 0.8 km (0.5 mi) downstream of the confluence of Pine Island Bayou, in Orange County to Town Bluff Dam in Jasper/Tyler County
- 0603 B. A. Steinhagen Lake from Town Bluff Dam in Jasper/Tyler County to a point immediately upstream of the confluence of Hopson Mill Creek on the Neches River Arm in Jasper/Tyler County and to a point immediately upstream of the confluence of Indian Creek on the Angelina River Arm in Jasper County, up to the normal pool elevation of 83 feet (impounds Neches River)
- 0604 Neches River Below Lake Palestine from a point immediately upstream of the confluence of Hopson Mill Creek in Jasper/Tyler County to Blackburn Crossing Dam in Anderson/Cherokee County
- 0605 Lake Palestine from Blackburn Crossing Dam in Anderson/Cherokee County to a point 6.7 km (4.2 mi) downstream of FM 279 in Henderson/Smith County, up to the normal pool elevation of 345 feet (impounds Neches River)
- 0606 Neches River Above Lake Palestine from a point 6.7 km (4.2 mi) downstream of FM 279 in Henderson/Smith County to Rhine Lake Dam in Van Zandt County before it was breached in 2001

- 0607 Pine Island Bayou from the confluence with the Neches River in Hardin/Jefferson County to the confluence with Willow Creek in Hardin/Jefferson County
- 0608 Village Creek from the confluence with the Neches River in Hardin County to the confluence of Big Sandy Creek and Kimball Creek in Hardin County

(impounds Angelina River and Attoyac Bayou)

- 0609 Angelina River Below Sam Rayburn Reservoir from a point immediately upstream of the confluence of Indian Creek in Jasper County to Sam Rayburn Dam in Jasper County
- O610 Sam Rayburn Reservoir from Sam Rayburn Dam in Jasper County to a point 5.6 km (3.5 mi) upstream of Marion's Ferry on the Angelina River Arm in Angelina/Nacogdoches County and to a point 3.9 km (2.4 mi) downstream of Curry Creek on the Attoyac Bayou Arm in Nacogdoches/San Augustine County,
- O611 Angelina River Above Sam Rayburn Reservoir from the aqueduct crossing 1.0 km (0.6 mi) upstream of the confluence of Paper Mill Creek in Angelina/Nacogdoches County to the confluence of Barnhardt Creek and Mill Creek at FM 225 in Rusk County

up to the normal pool elevation of 164.4 feet (except on the Angelina River Arm)

- 0612 Attoyac Bayou from a point 3.9 km (2.4 mi) downstream of Curry Creek in Nacogdoches/San Augustine County to FM 95 in Rusk County
- O613 Lake Tyler/Lake Tyler East from Whitehouse Dam and Mud Creek Dam in Smith County up to the normal pool elevation of 375.38 feet (impounds Prairie Creek and Mud Creek)
- 0614 Lake Jacksonville from Buckner Dam in Cherokee County up to the normal pool elevation of 422 feet (impounds Gum Creek)
- O615 Angelina River/Sam Rayburn Reservoir the riverine portion of Sam Rayburn Reservoir from a point 5.6 km (3.5 miles) upstream of Marion's Ferry to the aqueduct crossing 1.0 km (0.6 mi) upstream of the confluence of Paper Mill Creek
- 0701 Taylor Bayou Above Tidal from the salt water lock 7.7 km (4.8 mi) downstream of SH 73 in Jefferson County to the Lower Neches Valley Authority Canal crossing of North Fork Taylor Bayou in Jefferson County

EPA is reviewing and has not approved revised descriptions for segments 0607. Segment descriptions from 2010 standards remain in effect for CWA purposes: from the confluence with the Neches River in Hardin/Jefferson County to FM 787 in Hardin County.

- O702 Intracoastal Waterway Tidal from the confluence with Galveston Bay at Port Bolivar in Galveston County to the confluence with the Sabine-Neches/Port Arthur Canal in Jefferson County (including Taylor Bayou Tidal from the confluence with the Intracoastal Waterway up to the salt water lock 7.7 km (4.8 mi) downstream of SH 73 in Jefferson County)
- O703 Sabine-Neches Canal Tidal from the confluence with Sabine Pass at the southern tip of Pleasure Island in Jefferson County to the Sabine Lake seawall at the northern tip of Pleasure Island in Jefferson County
- 0704 Hillebrandt Bayou from the confluence of Taylor Bayou in Jefferson County to a point 100 meters (110 yards) upstream of SH 124 in Jefferson County
- 0801 Trinity River Tidal from the saltwater barrier, which is 5.5 km (3.4 mi) downstream of IH 10, in Chambers County to a point 3.1 km (1.9 mi) downstream of US 90 in Liberty County
- 0802 Trinity River Below Lake Livingston from a point 3.1 km (1.9 mi) downstream of US 90 in Liberty County to Livingston Dam in Polk/San Jacinto County
- 0803 Lake Livingston from Livingston Dam in Polk/San Jacinto County to a point 1.8 km (1.1 mi) upstream of Boggy Creek in Houston/Leon County, up to the normal pool elevation of 131 feet (impounds Trinity River)
- 0804 Trinity River Above Lake Livingston from a point 1.8 km (1.1 mi) upstream of Boggy Creek in Houston/Leon County to a point immediately upstream of the confluence of the Cedar Creek Reservoir discharge canal in Henderson/Navarro County
- 0805 Upper Trinity River from a point immediately upstream of the confluence of the Cedar Creek Reservoir discharge canal in Henderson/Navarro County to a point immediately upstream of the confluence of Elm Fork Trinity River in Dallas County
- 0806 West Fork Trinity River Below Lake Worth from a point immediately upstream of the confluence of Village Creek in Tarrant County to Lake Worth Dam in Tarrant County
- 0807 Lake Worth from Lake Worth Dam in Tarrant County to a point 4.0 km (2.5 mi) downstream of Eagle Mountain Dam in Tarrant County, up to the normal pool elevation of 594 feet (impounds West Fork Trinity River)
- 0808 West Fork Trinity River Below Eagle Mountain Reservoir from a point 4.0 km (2.5 mi) downstream of Eagle Mountain Dam in Tarrant County to Eagle Mountain Dam in Tarrant County

- 0809 Eagle Mountain Reservoir from Eagle Mountain Dam in Tarrant County to a point 0.6 km (0.4 mi) downstream of the confluence of Oates Branch in Wise County up to the normal pool elevation of 649.1 feet (impounds West Fork Trinity River)
- 0810 West Fork Trinity River Below Bridgeport Reservoir from a point 0.6 km (0.4 mi) downstream of the confluence of Oates Branch in Wise County to Bridgeport Dam in Wise County
- 0811 Bridgeport Reservoir from Bridgeport Dam in Wise County to a point immediately upstream of the confluence of Bear Hollow in Jack County, up to the normal pool elevation of 836 feet (impounds West Fork Trinity River)
- 0812 West Fork Trinity River Above Bridgeport Reservoir from a point immediately upstream of the confluence of Bear Hollow in Jack County to SH 79 in Archer County
- 0813 Houston County Lake from Houston County Dam in Houston County up to the normal pool elevation of 260 feet (impounds Little Elkhart Creek)
- 0814 Chambers Creek Above Richland-Chambers Reservoir from a point 4.0 km (2.5 mi) downstream of Tupelo Branch in Navarro County to the confluence of North Fork Chambers Creek and South Fork Chambers Creek
- 0815 Bardwell Reservoir from Bardwell Dam in Ellis County up to the normal pool elevation of 421 feet (impounds Waxahachie Creek)
- 0816 Lake Waxahachie from South Prong Dam in Ellis County up to the normal pool elevation of 531.5 feet (impounds South Prong Creek)
- 0817 Navarro Mills Lake from Navarro Mills Dam in Navarro County up to the normal pool elevation of 424.5 feet (impounds Richland Creek)
- 0818 Cedar Creek Reservoir from Joe B. Hoggsett Dam in Henderson County up to the normal pool elevation of 322 feet (impounds Cedar Creek)
- 0819 East Fork Trinity River from the confluence with the Trinity River in Kaufman County to Rockwall-Forney Dam in Kaufman County
- 0820 Lake Ray Hubbard from Rockwall-Forney Dam in Kaufman County to Lavon Dam in Collin County, up to the normal pool elevation of 435.5 feet (impounds East Fork Trinity River)
- 0821 Lavon Lake from Lavon Dam in Collin County up to the normal pool elevation of 492 feet (impounds East Fork Trinity River)

- 0822 Elm Fork Trinity River Below Lewisville Lake from the confluence with the West Fork Trinity River in Dallas County to Lewisville Dam in Denton County
- 0823 Lewisville Lake from Lewisville Dam in Denton County to a point 200 meters (220 yards) upstream of FM 428 in Denton County, up to the normal pool elevation of 522 feet (impounds Elm Fork Trinity River)
- 0824 Elm Fork Trinity River Above Ray Roberts Lake from a point 9.5 km (5.9 mi) downstream of the confluence of Pecan Creek in Cooke County to US 82 in Montague County
- 0825 Denton Creek from the confluence with the Elm Fork Trinity River in Dallas County to Grapevine Dam in Tarrant County
- 0826 Grapevine Lake from Grapevine Dam in Tarrant County up to the normal pool elevation of 535 feet (impounds Denton Creek)
- 0827 White Rock Lake from White Rock Dam in Dallas County up to the normal pool elevation of 458 feet (impounds White Rock Creek)
- 0828 Lake Arlington from Arlington Dam in Tarrant County up to the normal pool elevation of 550 feet (impounds Village Creek)
- 0829 Clear Fork Trinity River Below Benbrook Lake from the confluence with the West Fork Trinity River in Tarrant County to Benbrook Dam in Tarrant County
- 0830 Benbrook Lake from Benbrook Dam in Tarrant County to a point 200 meters (220 yards) downstream of US 377 in Tarrant County, up to the normal pool elevation of 694 feet (impounds Clear Fork Trinity River)
- O831 Clear Fork Trinity River Below Lake Weatherford from a point 200 meters (220 yards) downstream of US 377 in Tarrant County to Weatherford Dam in Parker County
- 0832 Lake Weatherford from Weatherford Dam in Parker County to a point 3.1 km (1.9 mi) upstream of FM 730 in Parker County, up to the normal pool elevation of 896 feet (impounds Clear Fork Trinity River)
- 0833 Clear Fork Trinity River Above Lake Weatherford from a point 3.1 km (1.9 mi) upstream of FM 730 in Parker County to the confluence with Strickland Creek approximately 8 km (5 mi) upstream of FM 51 in Parker County
- 0834 Lake Amon G. Carter from Amon G. Carter Dam in Montague County up to the normal pool elevation of 920 feet (impounds Big Sandy Creek)

- 0835 Richland Creek Below Richland-Chambers Reservoir from the confluence with the Trinity River in Freestone County to Richland-Chambers Dam in Freestone County
- O836 Richland-Chambers Reservoir from Richland-Chambers Dam in Freestone County to a point immediately upstream of the confluence of Pin Oak Creek on the Richland Creek Arm in Navarro County and to a point 4.0 km (2.5 mi) downstream of Tupelo Branch on the Chambers Creek Arm in Navarro County, up to the normal pool elevation of 315 feet (impounds Richland and Chambers Creeks)
- 0837 Richland Creek Above Richland-Chambers Reservoir from a point immediately upstream of the confluence of Pin Oak Creek in Navarro County to Navarro Mills Dam in Navarro County
- O838 Joe Pool Lake from Joe Pool Dam in Dallas County up to the normal pool elevation of 522 feet (impounds Mountain Creek)
- 0839 Elm Fork Trinity River Below Ray Roberts Lake from a point 200 meters (220 yards) upstream of FM 428 in Denton County to Ray Roberts Dam in Denton County
- 0840 Ray Roberts Lake from Ray Roberts Dam in Denton County to a point 9.5 km (5.9 mi) downstream of the confluence of Pecan Creek in Cooke County, up to the normal pool elevation of 632.5 feet (impounds Elm Fork Trinity River)
- O841 Lower West Fork Trinity River from a point immediately upstream of the confluence of the Elm Fork Trinity River in Dallas County to a point immediately upstream of the confluence of Village Creek in Tarrant County
- 0901 Cedar Bayou Tidal from the confluence with Galveston Bay 1.0 km (0.6 mi) downstream of Tri-City Beach Road in Chambers County to a point 2.2 km (1.4 mi) upstream of IH 10 in Chambers/Harris County
- 0902 Cedar Bayou Above Tidal from a point 2.2 km (1.4 mi) upstream of IH 10 in Chambers/Harris County to a point 7.4 km (4.6 mi) upstream of FM 1960 in Liberty County
- 1001 San Jacinto River Tidal from a point 100 meters (110 yards) downstream of IH 10 in Harris County to Lake Houston Dam in Harris County
- 1002 Lake Houston from Lake Houston Dam in Harris County to the confluence of Spring Creek on the West Fork San Jacinto Arm in Harris/Montgomery County and to the confluence of Caney Creek on the East Fork San Jacinto Arm in Harris

- County, up to the normal pool elevation of 44.5 feet (impounds San Jacinto River)
- 1003 East Fork San Jacinto River from the confluence of Caney Creek in Harris County to US 190 in Walker County
- 1004 West Fork San Jacinto River from the confluence of Spring Creek in Harris/Montgomery County to Conroe Dam in Montgomery County
- 1005 Houston Ship Channel/San Jacinto River Tidal from the confluence with Galveston Bay at Morgan's Point in Harris/Chambers County to a point 100 meters (110 yards) downstream of IH 10 in Harris County
- Houston Ship Channel Tidal from the confluence with the San Jacinto River in Harris County to a point immediately upstream of Greens Bayou in Harris County, including tidal portions of tributaries and Old River

EPA is reviewing and has not approved the revised descriptions for segment 1006. The segment description from 2010 standards (without "and Old River") remains in effect for CWA purposes.

- 1007 Houston Ship Channel/Buffalo Bayou Tidal from a point immediately upstream of Greens Bayou in Harris County to a point 100 meters (110 yards) upstream of US 59 in Harris County, including tidal portions of tributaries
- 1008 Spring Creek from the confluence with the West Fork San Jacinto River in Harris/Montgomery County to the confluence with Kickapoo Creek in Harris/Waller County
- 1009 Cypress Creek from the confluence with Spring Creek in Harris County to the confluence of Snake Creek and Mound Creek in Waller County
- 1010 Caney Creek from the confluence with the East Fork San Jacinto River in Harris County to SH 150 in Walker County
- 1011 Peach Creek from the confluence with Caney Creek in Montgomery County to SH 150 in Walker County
- 1012 Lake Conroe from Conroe Dam in Montgomery County up to the normal pool elevation of 201 feet (impounds West Fork San Jacinto River)
- 1013 Buffalo Bayou Tidal from a point 100 meters (110 yards) upstream of US 59 in Harris County to a point 400 meters (440 yards) upstream of Shepherd Drive in Harris County including the tidal portion of tributaries

- 1014 Buffalo Bayou Above Tidal from a point 400 meters (440 yards) upstream of Shepherd Drive in Harris County to SH 6 in Harris County
- 1015 Lake Creek from the confluence with the West Fork San Jacinto River in Montgomery County to a point 4.0 km (2.5 mi) upstream of SH 30 in Grimes County
- 1016 Greens Bayou Above Tidal from a point 0.7 km (0.4 mi) upstream of the confluence of Halls Bayou in Harris County, to a point 100 meters (110 yards) upstream of FM 1960 in Harris County
- 1017 Whiteoak Bayou Above Tidal from a point immediately upstream of the confluence of Little Whiteoak Bayou in Harris County to a point 3.0 km (1.9 mi) upstream of FM 1960 in Harris County
- 1101 Clear Creek Tidal from the confluence with Clear Lake at a point 3.2 km (2.0 mi) downstream of El Camino Real in Galveston/Harris County to a point 100 meters (110 yards) upstream of FM 528 in Galveston/Harris County
- 1102 Clear Creek Above Tidal from a point 100 meters (110 yards) upstream of FM 528 in Galveston/Harris County to Rouen Road in Fort Bend County
- 1103 Dickinson Bayou Tidal from the confluence with Dickinson Bay 2.1 km (1.3 mi) downstream of SH 146 in Galveston County to a point 4.0 km (2.5 mi) downstream of FM 517 in Galveston County
- 1104 Dickinson Bayou Above Tidal from a point 4.0 km (2.5 mi) downstream of FM 517 in Galveston County to FM 528 in Galveston County
- 1105 Bastrop Bayou Tidal from the confluence with Bastrop Bay 1.1 km (0.7 mi) downstream of the Intracoastal Waterway in Brazoria County to a point 8.6 km (5.3 mi) upstream of Business 288 at Lake Jackson in Brazoria County
- 1107 Chocolate Bayou Tidal from the confluence with Chocolate Bay 1.4 km (0.9 mi) downstream of FM 2004 in Brazoria County to the salt water barrier (immediately downstream of the Chocolate Bayou Rice Canal) 5.2 km (3.2 mi) downstream of SH 35 in Brazoria County
- 1108 Chocolate Bayou Above Tidal from the salt water barrier (immediately downstream of the Chocolate Bayou Rice Canal) 5.2 km (3.2 mi) downstream of SH 35 in Brazoria County to SH 6 in Brazoria County
- 1109 Oyster Creek Tidal from the confluence with the Intracoastal Waterway in Brazoria County to a point 100 meters (110 yards) upstream of FM 2004 in Brazoria County

- 1110 Oyster Creek Above Tidal from a point 100 meters (110 yards) upstream of FM 2004 in Brazoria County to a point 4.3 km (2.7 mi) upstream of Scanlan Road in Fort Bend County
- Old Brazos River Channel Tidal from the confluence with the Intracoastal Waterway in Brazoria County to SH 288 in Brazoria County
- 1113 Armand Bayou Tidal from the confluence with Clear Lake (at the NASA Road 1 bridge) in Harris County to a point 0.8 km (0.5 mi) downstream of Genoa-Red Bluff Road in Pasadena in Harris County (includes Mud Lake)
- 1201 Brazos River Tidal from the confluence with the Gulf of Mexico in Brazoria County to a point 100 meters (110 yards) upstream of SH 332 in Brazoria County
- 1202 Brazos River Below Navasota River from a point 100 meters (110 yards) upstream of SH 332 in Brazoria County to a point immediately upstream of the confluence of the Navasota River in Grimes County
- Whitney Lake from Whitney Dam in Bosque/Hill County to a point immediately upstream of the confluence of Camp Creek on the Brazos River Arm in Bosque/Johnson County and to a point immediately upstream of the confluence of Rock Creek on the Nolan River Arm in Hill County, up to the normal pool elevation of 533 feet (impounds Brazos River)
- 1204 Brazos River Below Lake Granbury from a point immediately upstream of the confluence of Camp Creek in Bosque/Johnson County to De Cordova Bend Dam in Hood County
- 1205 Lake Granbury from De Cordova Bend Dam in Hood County to a point 100 meters (110 yards) upstream of FM 2580 in Parker County, up to the normal pool elevation of 693 feet (impounds Brazos River)
- 1206 Brazos River Below Possum Kingdom Lake from a point 100 meters (110 yards) upstream of FM 2580 in Parker County to Morris Sheppard Dam in Palo Pinto County
- 1207 Possum Kingdom Lake from Morris Sheppard Dam in Palo Pinto County to a point immediately upstream of the confluence of Cove Creek at Salem Bend in Young County, up to the normal pool elevation of 1000 feet (impounds Brazos River)
- 1208 Brazos River Above Possum Kingdom Lake from a point immediately upstream of the confluence of Cove Creek at Salem Bend in Young County to the

- confluence of the Double Mountain Fork Brazos River and the Salt Fork Brazos River in Stonewall County
- 1209 Navasota River Below Lake Limestone from the confluence with the Brazos River in Grimes County to Sterling C. Robertson Dam in Leon/Robertson County
- 1210 Lake Mexia from Bistone Dam in Limestone County up to the normal pool elevation of 448.3 feet (impounds Navasota River)
- 1211 Yegua Creek from the confluence with the Brazos River in Burleson/Washington County to Somerville Dam in Burleson/Washington County
- 1212 Somerville Lake from Somerville Dam in Burleson/Washington County up to the normal pool elevation of 238 feet (impounds Yegua Creek)
- 1213 Little River from the confluence with the Brazos River in Milam County to the confluence of the Leon River and the Lampasas River in Bell County
- 1214 San Gabriel River from the confluence with the Little River in Milam County to Granger Lake Dam in Williamson County
- 1215 Lampasas River Below Stillhouse Hollow Lake from the confluence with the Leon River in Bell County to Stillhouse Hollow Dam in Bell County
- 1216 Stillhouse Hollow Lake from Stillhouse Hollow Dam in Bell County to a point immediately upstream of the confluence of Rock Creek in Bell County, up to the normal pool elevation of 622 feet (impounds Lampasas River)
- 1217 Lampasas River Above Stillhouse Hollow Lake from a point immediately upstream of the confluence of Rock Creek in Bell County to FM 2005 in Hamilton County
- 1218 Nolan Creek/South Nolan Creek from the confluence with the Leon River in Bell County to a point 100 meters (110 yards) upstream of the most upstream crossing of US 190 near the intersection of US 190 and Loop 172 in Bell County
- 1219 Leon River Below Belton Lake from the confluence with the Lampasas River in Bell County to Belton Dam in Bell County
- 1220 Belton Lake from Belton Dam in Bell County to a point 100 meters (110 yards) upstream of FM 236 in Coryell County, up to the normal pool elevation of 594 feet (impounds Leon River)

- 1221 Leon River Below Proctor Lake from a point immediately upstream of the confluence of Plum Creek in Coryell County to Proctor Dam in Comanche County
- 1222 Proctor Lake from Proctor Dam in Comanche County to a point immediately upstream of the confluence of Mill Branch in Comanche County, up to the normal pool elevation of 1162 feet (impounds Leon River)
- 1223 Leon River Below Leon Reservoir from a point immediately upstream of the confluence of Mill Branch in Comanche County to Leon Dam in Eastland County
- 1224 Leon Reservoir from Leon Dam in Eastland County up to the normal pool elevation of 1375 feet (impounds Leon River)
- 1225 Waco Lake from Waco Lake Dam in McLennan County to a point immediately upstream of the confluence of Long Branch on the North Bosque River Arm in McLennan County; and on the South Bosque River Arm in McLennan County, to a point on the Middle Bosque River 1.64 km (1.02 mi) upstream of the confluence of the Middle Bosque and South Bosque rivers and to a point on the South Bosque River, 1.35 km (0.84 mi) upstream of the confluence of the Middle Bosque and South Bosque rivers, up to the normal pool elevation of 462 feet (impounds the Bosque River)
- 1226 North Bosque River from a point immediately upstream of the confluence of Long Branch in McLennan County to a point immediately upstream of the confluence of Indian Creek in Erath County
- 1227 Nolan River from a point immediately upstream of the confluence of Rock Creek in Hill County to Cleburne Dam in Johnson County
- 1228 Lake Pat Cleburne from Cleburne Dam in Johnson County up to the normal pool elevation of 733.5 feet (impounds Nolan River)
- 1229 Paluxy River/North Paluxy River from the confluence with the Brazos River in Somervell County to the confluence of Rough Creek in Erath County
- 1230 Lake Palo Pinto from Palo Pinto Creek Dam in Palo Pinto County up to the normal pool elevation of 867.3 feet (impounds Palo Pinto Creek)
- 1231 Lake Graham from Graham Dam and Eddleman Dam in Young County up to the normal pool elevation of 1075 feet (impounds Salt Creek and Flint Creek)
- 1232 Clear Fork Brazos River from the confluence with the Brazos River in Young County to the most upstream crossing of US 180 in Fisher County

- 1233 Hubbard Creek Reservoir from Hubbard Creek Dam in Stephens County up to the normal pool elevation of 1183 feet (impounds Hubbard Creek)
- 1234 Lake Cisco from Williamson Dam in Eastland County up to the normal pool elevation of 1496 feet (impounds Sandy Creek)
- 1235 Lake Stamford from Stamford Dam in Haskell County up to the normal pool elevation of 1416.8 feet (impounds Paint Creek)
- 1236 Fort Phantom Hill Reservoir from Fort Phantom Hill Dam in Jones County up to the normal pool elevation of 1635.9 feet (impounds Elm Creek)
- 1237 Lake Sweetwater from Sweetwater Dam in Nolan County up to the normal pool elevation of 2116.5 feet (impounds Bitter Creek)
- 1238 Salt Fork Brazos River from the confluence of the Double Mountain Fork Brazos River in Stonewall County to the most upstream crossing of SH 207 in Crosby County
- 1239 White River from the confluence with the Salt Fork Brazos River in Kent County to White River Dam in Crosby County
- 1240 White River Lake from White River Dam in Crosby County up to the normal pool elevation of 2372.2 feet (impounds White River)
- 1241 Double Mountain Fork Brazos River from the confluence with the Salt Fork Brazos River in Stonewall County to the confluence of the North Fork Double Mountain Fork Brazos River in Kent County
- 1242 Brazos River Above Navasota River from a point immediately upstream of the confluence of the Navasota River in Brazos/Grimes/Washington County to the low water dam forming Lake Brazos in McLennan County
- 1243 Salado Creek from the confluence with the Lampasas River in Bell County to the confluence of North Salado Creek and South Salado Creek in Williamson County
- 1244 Brushy Creek from the confluence with the San Gabriel River in Milam County to the confluence of South Brushy Creek in Williamson County
- 1245 Upper Oyster Creek from Steep Bank Creek/Brazos River confluence in Fort Bend County to pumping station on Jones Creek at Brazos River in Fort Bend County (includes portions of Steep Bank Creek, Flat Bank Creek, Flat Bank Creek Diversion Channel, and Jones Creek)

- 1246 Middle Bosque/South Bosque River for the Middle Bosque River from a point 1.64 km (1.02 mi) from the confluence with the South Bosque River in McLennan County to the confluence of Cave Creek and Middle Bosque Creek in Coryell County and for the South Bosque River from a point 1.35 km (0.84 mi) from the confluence of the Middle Bosque River in McLennan County to FM 2671 in McLennan County
- 1247 Granger Lake from Granger Dam in Williamson County to a point 1.9 km (1.2 mi) downstream of SH 95 in Williamson County, up to the normal pool elevation of 504 feet (impounds San Gabriel River)
- 1248 San Gabriel/North Fork San Gabriel River from a point 1.9 km (1.2 mi) downstream of SH 95 in Williamson County to North San Gabriel Dam in Williamson County
- 1249 Lake Georgetown from North San Gabriel Dam in Williamson County to a point 6.6 km (4.1 mi) downstream of US 183 in Williamson County, up to the normal pool elevation of 791 feet (impounds North Fork San Gabriel River)
- South Fork San Gabriel River from the confluence with the North Fork San Gabriel River in Williamson County to the most upstream crossing of SH 29 in Burnet County
- North Fork San Gabriel River from a point 6.6 km (4.1 mi) downstream of US 183 in Williamson County to the confluence of Allen Branch in Burnet County
- 1252 Lake Limestone from Sterling C. Robertson Dam in Leon/Robertson County to a point 2.3 km (1.4 mi) downstream of SH 164 in Limestone County, up to the normal pool elevation of 363 feet (impounds Navasota River)
- 1253 Navasota River Below Lake Mexia from a point 2.3 km (1.4 mi) downstream of SH 164 in Limestone County to Bistone Dam in Limestone County
- 1254 Aquilla Reservoir from Aquilla Dam in Hill County up to the normal pool elevation of 537.5 feet (impounds Aquilla Creek)
- 1255 Upper North Bosque River from a point immediately upstream of the confluence of Indian Creek in Erath County to the confluence of the North Fork and South Fork of the North Bosque River in Erath County
- 1256 Brazos River/Lake Brazos from the low water dam forming Lake Brazos in McLennan County to a point immediately upstream of the confluence of Aquilla Creek in McLennan County (includes the Bosque River arm to the Waco Lake Dam)

- 1257 Brazos River Below Whitney Lake from a point immediately upstream of the confluence of Aquilla Creek in McLennan County to Whitney Dam in Bosque/Hill County
- 1258 Middle Oyster Creek from the confluence with the Brazos River to the Flat Bank diversion channel in Fort Bend County
- 1259 Leon River Above Belton Lake from a point 100 meters (110 yards) upstream of FM 236 in Coryell County to a point immediately upstream of the confluence with Plum Creek in Coryell County
- 1301 San Bernard River Tidal from the confluence with the Intracoastal Waterway in Brazoria County to a point 3.2 km (2.0 mi) upstream of SH 35 in Brazoria County
- 1302 San Bernard River Above Tidal from a point 3.2 km (2.0 mi) upstream of SH 35 in Brazoria County to the county road southeast of New Ulm in Austin County
- 1304 Caney Creek Tidal from the confluence with the Intracoastal Waterway in Matagorda County to a point 1.9 km (1.2 mi) upstream of the confluence of Linnville Bayou in Matagorda County
- 1305 Caney Creek Above Tidal from a point 1.9 km (1.2 mi) upstream of the confluence of Linnville Bayou in Matagorda County to the confluence of Water Hole Creek in Matagorda County
- 1401 Colorado River Tidal from the confluence with Matagorda Bay due to a diversion channel in Matagorda County to a point 2.1 km (1.3 mi) downstream of the Missouri-Pacific Railroad in Matagorda County
- 1402 Colorado River Below La Grange from a point 2.1 km (1.3 mi) downstream of the Missouri-Pacific Railroad in Matagorda County to a point 100 meters (110 yards) downstream of Business SH 71 at La Grange in Fayette County
- 1403 Lake Austin from Tom Miller Dam in Travis County to Mansfield Dam in Travis County, up to the normal pool elevation of 492.8 feet (impounds Colorado River)
- 1404 Lake Travis from Mansfield Dam in Travis County to Max Starcke Dam on the Colorado River Arm in Burnet County and to a point immediately upstream of the confluence of Fall Creek on the Pedernales River Arm in Travis County, up to the normal pool elevation of 681.6 feet (impounds Colorado River)

- 1405 Marble Falls Lake from Max Starcke Dam in Burnet County to Alvin Wirtz Dam in Burnet County, up to the normal pool elevation of 738 feet (impounds Colorado River)
- 1406 Lake Lyndon B. Johnson from Alvin Wirtz Dam in Burnet County to Roy Inks Dam on the Colorado River Arm in Burnet/Llano County and to a point immediately upstream of the confluence of Honey Creek on the Llano River Arm in Llano County, up to the normal pool elevation of 825.6 feet (impounds Colorado River)
- 1407 Inks Lake from Roy Inks Dam in Burnet/Llano County to Buchanan Dam in Burnet/Llano County, up to the normal pool elevation of 888 feet (impounds Colorado River)
- 1408 Lake Buchanan from Buchanan Dam in Burnet/Llano County to a point immediately upstream of the confluence of Yancey Creek, up to the normal pool elevation of 1020.5 feet (impounds Colorado River)
- 1409 Colorado River Above Lake Buchanan from a point immediately upstream of the confluence of Yancey Creek in Burnet/San Saba/Lampasas County to the confluence of the San Saba River in San Saba County
- 1410 Colorado River Below O. H. Ivie Reservoir from the confluence of the San Saba River in San Saba County to S. W. Freese Dam in Coleman/Concho County
- 1411 E. V. Spence Reservoir from Robert Lee Dam in Coke County to a point immediately upstream of the confluence of Little Silver Creek in Coke County, up to the normal pool elevation of 1898 feet (impounds Colorado River)
- 1412 Colorado River Below Lake J. B. Thomas from a point immediately upstream of the confluence of Little Silver Creek in Coke County to Colorado River Dam in Scurry County
- 1413 Lake J. B. Thomas from Colorado River Dam in Scurry County up to the normal pool elevation of 2258 feet (impounds Colorado River)
- 1414 Pedernales River from a point immediately upstream of the confluence of Fall Creek in Travis County to FM 385 in Kimble County
- 1415 Llano River from a point immediately upstream of the confluence of Honey Creek in Llano County to FM 864 on the North Llano River in Sutton County and to SH 55 on the South Llano River in Edwards County

- 1416 San Saba River from the confluence with the Colorado River in San Saba County to the confluence of the North Valley Prong and the Middle Valley Prong in Schleicher County
- 1417 Lower Pecan Bayou from the confluence with the Colorado River in Mills County to a point immediately upstream of the confluence of Mackinally Creek in Brown County
- 1418 Lake Brownwood from Lake Brownwood Dam in Brown County to a point 100 meters (110 yards) upstream of FM 2559 in Brown County, up to the normal pool elevation of 1425 feet (impounds Pecan Bayou)
- 1419 Lake Coleman from Coleman Dam in Coleman County up to the normal pool elevation of 1717.5 feet (impounds Jim Ned Creek)
- 1420 Pecan Bayou Above Lake Brownwood from a point 100 meters (110 yards) upstream of FM 2559 in Brown County to the confluence of the North Prong Pecan Bayou and the South Prong Pecan Bayou in Callahan County
- 1421 Concho River from a point 2.0 km (1.2 mi) upstream of the confluence of Fuzzy Creek in Concho County to San Angelo Dam on the North Concho River in Tom Green County and to Nasworthy Dam on the South Concho River in Tom Green County
- 1422 Lake Nasworthy from Nasworthy Dam in Tom Green County to Twin Buttes Dam in Tom Green County, up to the normal pool elevation of 1872.2 feet (impounds South Concho River)
- Twin Buttes Reservoir from Twin Buttes Dam in Tom Green County to a point 100 meters (110 yards) upstream of US 67 on the Middle Concho River Arm in Tom Green County and to a point 4.0 km (2.5 mi) downstream of FM 2335 on the South Concho River Arm in Tom Green County, up to the normal pool elevation of 1940.2 feet (impounds the Middle Concho River and the South Concho River)
- 1424 Middle Concho/South Concho River from a point 4.0 km (2.5 mi) downstream of FM 2335 in Tom Green County to the confluence of Bois d'Arc Draw on the South Concho River in Tom Green County and from a point 100 meters (110 yards) upstream of US 67 in Tom Green County to the confluence of Three Bluff Draw and Indian Creek on the Middle Concho River in Reagan County
- O. C. Fisher Lake from San Angelo Dam in Tom Green County up to the normal pool elevation of 1908 feet (impounds North Concho River)

- 1426 Colorado River Below E. V. Spence Reservoir from a point 3.7 km (2.3 mi) downstream of the confluence of Mustang Creek in Runnels County to Robert Lee Dam in Coke County
- Onion Creek from the confluence with the Colorado River in Travis County to the most upstream crossing of FM 165 in Blanco County
- 1428 Colorado River Below Lady Bird Lake (formerly Town Lake) from a point 100 meters (110 yards) upstream of FM 969 near Utley in Bastrop County to Longhorn Dam in Travis County
- 1429 Lady Bird Lake (formerly Town Lake) from Longhorn Dam in Travis County to Tom Miller Dam in Travis County, up to the normal pool elevation of 429 feet (impounds Colorado River)
- 1430 Barton Creek from the confluence with Lady Bird Lake (formerly Town Lake) in Travis County to FM 12 in Hays County
- 1431 Mid Pecan Bayou from a point immediately upstream of the confluence of Mackinally Creek in Brown County to a point immediately upstream of Willis Creek in Brown County
- 1432 Upper Pecan Bayou from a point immediately upstream of the confluence of Willis Creek in Brown County to Lake Brownwood Dam in Brown County
- 1433 O. H. Ivie Reservoir from S. W. Freese Dam in Coleman/Concho County to a point 3.7 km (2.3 mi) downstream of the confluence of Mustang Creek on the Colorado River Arm in Runnels County and to a point 2.0 km (1.2 mi) upstream of the confluence of Fuzzy Creek on the Concho River Arm in Concho County, up to the conservation pool level of 1551.5 feet (impounds Colorado River)
- 1434 Colorado River Above La Grange from a point 100 meters (110 yards) downstream of Business SH 71 at La Grange in Fayette County to a point 100 meters (110 yards) upstream of FM 969 near Utley in Bastrop County
- 1501 Tres Palacios Creek Tidal from the confluence with Tres Palacios Bay in Matagorda County to a point 1.6 km (1.0 mi) upstream of the confluence of Wilson Creek in Matagorda County
- 1502 Tres Palacios Creek Above Tidal from a point 1.6 km (1.0 mi) upstream of the confluence of Wilson Creek in Matagorda County to State Route 525 (Old US 59) in Wharton County
- Lavaca River Tidal from the confluence with Lavaca Bay in Calhoun/Jackson County to a point 8.6 km (5.3 mi) downstream of US 59 in Jackson County

- 1602 Lavaca River Above Tidal from a point 8.6 km (5.3 mi) downstream of US 59 in Jackson County to the confluence of Campbell Branch west of Hallettsville in Lavaca County
- 1603 Navidad River Tidal from the confluence with the Lavaca River in Jackson County to Palmetto Bend Dam in Jackson County
- 1604 Lake Texana from Palmetto Bend Dam in Jackson County to a point 100 meters (110 yards) downstream of FM 530 in Jackson County, up to the normal pool elevation of 44 feet (impounds Navidad River)
- 1605 Navidad River Above Lake Texana from a point 100 meters (110 yards) downstream of FM 530 in Jackson County to the confluence of the East Navidad River and the West Navidad River in Colorado/Lavaca County
- 1701 Victoria Barge Canal Tidal from the confluence with San Antonio Bay in Calhoun County to Victoria Turning Basin in Victoria County
- 1801 Guadalupe River Tidal from the confluence with Guadalupe Bay in Calhoun/Refugio County to the Guadalupe-Blanco River Authority Salt Water Barrier 0.7 km (0.4 mi) downstream of the confluence of the San Antonio River in Calhoun/Refugio County
- Guadalupe River Below San Antonio River from the Guadalupe-Blanco River Authority Salt Water Barrier 0.7 km (0.4 mi) downstream of the confluence of the San Antonio River in Calhoun/Refugio County to a point immediately upstream of the confluence of the San Antonio River in Calhoun/Refugio/Victoria County
- 1803 Guadalupe River Below San Marcos River from a point immediately upstream of the confluence of the San Antonio River in Calhoun/Refugio/Victoria County to a point immediately upstream of the confluence of the San Marcos River in Gonzales County
- 1804 Guadalupe River Below Comal River from a point immediately upstream of the confluence of the San Marcos River in Gonzales County to a point immediately upstream of the confluence of the Comal River in Comal County
- 1805 Canyon Lake from Canyon Dam in Comal County to a point 2.7 km (1.7 mi) downstream of Rebecca Creek Road in Comal County, up to the normal pool elevation of 909 feet (impounds Guadalupe River)
- 1806 Guadalupe River Above Canyon Lake from a point 2.7 km (1.7 mi) downstream of Rebecca Creek Road in Comal County to the confluence of the North Fork Guadalupe River and the South Fork Guadalupe River in Kerr County

- 1807 Coleto Creek from the confluence with the Guadalupe River in Victoria County to the confluence of Fifteenmile Creek and Twelvemile Creek in Goliad/Victoria County, including Coleto Creek Reservoir
- 1808 Lower San Marcos River from the confluence with the Guadalupe River in Gonzales County to a point 1.0 km (0.6 mi) upstream of the confluence of the Blanco River in Hays County
- 1809 Lower Blanco River from the confluence with the San Marcos River in Hays County to a point 0.3 km (0.2 mi) upstream of Limekiln Road in Hays County
- 1810 Plum Creek from the confluence with the San Marcos River in Caldwell County to FM 2770 in Hays County
- 1811 Comal River from the confluence with the Guadalupe River in Comal County to Klingemann Street at New Braunfels in Comal County
- 1812 Guadalupe River Below Canyon Dam from a point immediately upstream of the confluence of the Comal River in Comal County to Canyon Dam in Comal County
- 1813 Upper Blanco River from a point 0.3 km (0.2 mi) upstream of Limekiln Road in Hays County to the confluence of Meier Creek in Kendall County
- 1814 Upper San Marcos River from a point 1.0 km (0.6 mi) upstream of the confluence of the Blanco River in Hays County to a point 0.7 km (0.4 mi) upstream of Loop 82 in San Marcos in Hays County (includes Spring Lake)
- 1815 Cypress Creek from the confluence with the Blanco River in Hays County to a point 6.4 km (4.0 mi) upstream of the most upstream unnamed county road crossing in Hays County
- 1816 Johnson Creek from the confluence with the Guadalupe River in Kerr County to a point 1.2 km (0.7 mi) upstream of the most upstream crossing of SH 41 in Kerr County
- 1817 North Fork Guadalupe River from the confluence with the Guadalupe River in Kerr County to a point 18.2 km (11.3 mi) upstream of Boneyard Draw in Kerr County
- 1818 South Fork Guadalupe River from the confluence with the Guadalupe River in Kerr County to a point 4.8 km (3.0 mi) upstream of FM 187 in Kerr County

- 1901 Lower San Antonio River from the confluence with the Guadalupe River in Refugio/Victoria County to a point 600 meters (660 yards) downstream of FM 791 at Mays Crossing near Falls City in Karnes County
- 1902 Lower Cibolo Creek from the confluence with the San Antonio River in Karnes County to FM 78 in Bexar/Guadalupe County

EPA took no action on the withdrawn revisions to segment 1902 (Lower Cibolo Creek). The 2014 WQS remain effective for CWA purposes.

- 1903 Medina River Below Medina Diversion Lake from the confluence with the San Antonio River in Bexar County to Medina Diversion Dam in Medina County
- 1904 Medina Lake from Medina Lake Dam in Medina County to a point immediately upstream of the confluence of Red Bluff Creek in Bandera County, up to the normal pool elevation of 1072 feet (impounds Medina River)
- 1905 Medina River Above Medina Lake from a point immediately upstream of the confluence of Red Bluff Creek in Bandera County to the confluence of the North Prong Medina River and the West Prong Medina River in Bandera County
- 1906 Lower Leon Creek from the confluence with the Medina River in Bexar County to a point 100 meters (110 yards) upstream of SH 16 northwest of San Antonio in Bexar County
- 1907 Upper Leon Creek from a point 100 meters (110 yards) upstream of SH 16 northwest of San Antonio in Bexar County to a point 9.0 km (5.6 mi) upstream of Scenic Loop Road north of Helotes in Bexar County
- 1908 Upper Cibolo Creek from the confluence with Balcones Creek in Kendall/Bexar County to a point 1.5 km (0.9 mi) upstream of the confluence of Champee Springs in Kendall County
- 1909 Medina Diversion Lake from Medina Diversion Dam in Medina County to Medina Lake Dam in Medina County, up to the normal pool elevation of 926.5 feet (impounds Medina River)
- 1910 Salado Creek from the confluence with the San Antonio River in Bexar County to the confluence of Beitel Creek in Bexar County
- 1911 Upper San Antonio River from a point 600 meters (660 yards) downstream of FM 791 at Mays Crossing near Falls City in Karnes County to a point 100 meters (110 yards) upstream of Hildebrand Avenue at San Antonio in Bexar County
- 1912 Medio Creek from the confluence with the Medina River in Bexar County to a point 1.0 km (0.6 mi) upstream of IH 35 at San Antonio in Bexar County

action on the withdrawn revisions to segment 1908 (Upper Cibolo Creek). The 2014 WQS remain effective for CWA purposes.

EPA took no

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action on the withdrawn revisions to segment 1913 (Middle Cibolo Creek). The 2014 WQS remain effective for CWA purposes.

EPA took no

- 1913 Mid Cibolo Creek from FM 78 in Bexar/ Guadalupe County to the confluence with Balcones Creek in Kendall/Bexar County
- 2001 Mission River Tidal from the confluence with Mission Bay in Refugio County to a point 7.4 km (4.6 mi) downstream of US 77 in Refugio County
- 2002 Mission River Above Tidal from a point 7.4 km (4.6 mi) downstream of US 77 in Refugio County to the confluence of Blanco Creek and Medio Creek in Refugio County
- 2003 Aransas River Tidal from the confluence with Copano Bay in Aransas/Refugio County to a point 1.6 km (1.0 mi) upstream of US 77 in Refugio/San Patricio County
- 2004 Aransas River Above Tidal from a point 1.6 km (1.0 mi) upstream of US 77 in Refugio/San Patricio County to the confluence of Poesta Creek and Aransas Creek in Bee County
- 2101 Nueces River Tidal from the confluence with Nueces Bay in Nueces County to Calallen Dam 1.7 km (1.1 mi) upstream of US 77/IH 37 in Nueces/San Patricio County
- 2102 Nueces River Below Lake Corpus Christi from Calallen Dam 1.7 km (1.1 mi) upstream of US 77/IH 37 in Nueces/San Patricio County to Wesley E. Seale Dam in Jim Wells/San Patricio County
- 2103 Lake Corpus Christi from Wesley E. Seale Dam in Jim Wells/San Patricio County to a point 100 meters (110 yards) upstream of US 59 in Live Oak County, up to the normal pool elevation of 94.0 feet (impounds Nueces River)
- 2104 Nueces River Above Frio River from the confluence of the Frio River in Live Oak County to Holland Dam in LaSalle County
- 2105 Nueces River Above Holland Dam from Holland Dam in LaSalle County to a point 100 meters (110 yards) upstream of FM 1025 in Zavala County
- 2106 Nueces/Lower Frio River from a point 100 meters (110 yards) upstream of US 59 in Live Oak County to Choke Canyon Dam in Live Oak County
- 2107 Lower Atascosa River from the confluence with the Frio River in Live Oak County to the confluence with Borrego Creek in Atascosa County

- 2108 San Miguel Creek from a point immediately upstream of the confluence of Mustang Branch in McMullen County to the confluence of San Francisco Perez Creek and Chacon Creek in Frio County
- 2109 Leona River from the confluence with the Frio River in Frio County to US 83 in Uvalde County
- 2110 Lower Sabinal River from the confluence with the Frio River in Uvalde County to a point 100 meters (110 yards) upstream of SH 127 in Uvalde County
- 2111 Upper Sabinal River from a point 100 meters (110 yards) upstream of SH 127 in Uvalde County to the most upstream crossing of FM 187 in Bandera County
- 2112 Upper Nueces River from a point 100 meters (110 yards) upstream of FM 1025 in Zavala County to the confluence of the East Prong Nueces River and Hackberry Creek in Edwards County
- 2113 Upper Frio River from a point 100 meters (110 yards) upstream of US 90 in Uvalde County to the confluence of the West Frio River and the East Frio River in Real County
- 2114 Hondo Creek from the confluence with the Frio River in Frio County to FM 470 in Bandera County
- 2115 Seco Creek from the confluence with Hondo Creek in Frio County to the confluence of West Seco Creek in Bandera County
- 2116 Choke Canyon Reservoir from Choke Canyon Dam in Live Oak County to a point 4.2 km (2.6 mi) downstream of SH 16 on the Frio River Arm in McMullen County and to a point 100 meters (110 yards) upstream of the confluence of Mustang Branch on the San Miguel Creek Arm in McMullen County, up to the normal pool elevation of 220.5 feet (impounds Frio River)
- 2117 Frio River Above Choke Canyon Reservoir from a point 4.2 km (2.6 mi) downstream of SH 16 in McMullen County to a point 100 meters (110 yards) upstream of US 90 in Uvalde County
- 2118 Upper Atascosa River from the confluence with Borrego Creek to the confluence with Galvan Creek in Atascosa County
- 2201 Arroyo Colorado Tidal from the confluence with Laguna Madre in Cameron/Willacy County to a point 100 meters (110 yards) downstream of Cemetery Road south of Port Harlingen in Cameron County

EPA is reviewing and has not approved the description for segment 2306. The segment description from 2010 standards (affecting underlined language) remains in effect for CWA purposes.

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- 2202 Arroyo Colorado Above Tidal from a point 100 meters (110 yards) downstream of Cemetery Road south of Port Harlingen in Cameron County to FM 2062 in Hidalgo County (includes La Cruz Resaca, Llano Grande Lake, and the Main Floodway)
- 2203 Petronila Creek Tidal from the confluence of Chiltipin Creek in Kleberg County to a point 1 km (0.6 mi) upstream of private road crossing near Laureles Ranch in Kleberg County
- 2204 Petronila Creek Above Tidal from a point 1 km (0.6 mi) upstream of private road crossing near Laureles Ranch in Kleberg County to the confluence of Agua Dulce and Banquete Creeks in Nueces County
- 2301 Rio Grande Tidal from the confluence with the Gulf of Mexico in Cameron County to a point 10.8 km (6.7 mi) downstream of the International Bridge in Cameron County
- 2302 Rio Grande Below Falcon Reservoir from a point 10.8 km (6.7 mi) downstream of the International Bridge in Cameron County to Falcon Dam in Starr County
- 2303 International Falcon Reservoir from Falcon Dam in Starr County to a point 0.66 km (0.41 mi) upstream of the confluence of the Arroyo El Lobo (Mexico) in Webb County, up to the normal pool elevation of 301.1 feet (impounds Rio Grande)
- 2304 Rio Grande Below Amistad Reservoir from a point 0.66 km (0.41 mi) upstream of the confluence of the Arroyo El Lobo (Mexico) in Webb County to Amistad Dam in Val Verde County
- 2305 International Amistad Reservoir from Amistad Dam in Val Verde County to a point 1.8 km (1.1 mi) downstream of the confluence of Ramsey Canyon on the Rio Grande Arm in Val Verde County and to a point 0.7 km (0.4 mi) downstream of the confluence of Painted Canyon on the Pecos River Arm in Val Verde County and to a point 0.6 km (0.4 mi) downstream of the confluence of Little Satan Creek on the Devils River Arm in Val Verde County, up to the normal pool elevation of 1117 feet (impounds Rio Grande)
- 2306 Rio Grande Above Amistad Reservoir from a point 1.8 km (1.1 mi) downstream of the confluence of Ramsey Canyon in Val Verde County to the confluence of Cow Canyon in Brewster County
- 2307 Rio Grande Below Riverside Diversion Dam from the confluence of the Rio Conchos (Mexico) in Presidio County to Riverside Diversion Dam in El Paso County

EPA is reviewing and has not approved the description for segment 2315. The segment description id not in effect for CWA purposes.

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- 2308 Rio Grande Below International Dam from the Riverside Diversion Dam in El Paso County to International Dam in El Paso County
- 2309 Devils River from a point 0.6 km (0.4 mi) downstream of the confluence of Little Satan Creek in Val Verde County to the confluence of Dry Devils River in Sutton County
- 2310 Lower Pecos River from a point 0.7 km (0.4 mi) downstream of the confluence of Painted Canyon in Val Verde County to a point immediately upstream of the confluence of Independence Creek in Crockett/Terrell County
- 2311 Upper Pecos River from a point immediately upstream of the confluence of Independence Creek in Crockett/Terrell County to Red Bluff Dam in Loving/Reeves County
- 2312 Red Bluff Reservoir from Red Bluff Dam in Loving/Reeves County to the New Mexico State Line in Loving/Reeves County, up to the normal pool elevation of 2842 feet (impounds Pecos River)
- 2313 San Felipe Creek from the confluence with the Rio Grande in Val Verde County to a point 4.0 km (2.5 mi) upstream of US 90 in Val Verde County
- 2314 Rio Grande Above International Dam from International Dam in El Paso County to the New Mexico State Line in El Paso County
- Rio Grande Below Rio Conchos from the confluence of Cow Canyon in Brewster County to the confluence of the Rio Conchos (Mexico) in Presidio County
- 2411 Sabine Pass * from the end of the jetties at the Gulf of Mexico to SH 82
- 2412 Sabine Lake *
- 2421 Upper Galveston Bay *
- 2422 Trinity Bay *
- 2423 East Bay *
- 2424 West Bay *
- 2425 Clear Lake *
- 2426 Tabbs Bay *
- 2427 San Jacinto Bay *

- 2428 Black Duck Bay *
- 2429 Scott Bay *
- 2430 Burnet Bay *
- 2431 Moses Lake *
- 2432 Chocolate Bay *
- 2433 Bastrop Bay/Oyster Lake *
- 2434 Christmas Bay *
- 2435 Drum Bay *
- 2436 Barbours Cut *
- 2437 Texas City Ship Channel *
- 2438 Bayport Channel *
- 2439 Lower Galveston Bay *
- 2441 East Matagorda Bay *
- 2442 Cedar Lakes *
- 2451 Matagorda Bay/Powderhorn Lake *
- 2452 Tres Palacios Bay/Turtle Bay *
- 2453 Lavaca Bay/Chocolate Bay *
- 2454 Cox Bay *
- 2455 Keller Bay *
- 2456 Carancahua Bay *
- 2461 Espiritu Santo Bay *
- 2462 San Antonio Bay/Hynes Bay/Guadalupe Bay/Mission Lake *
- 2463 Mesquite Bay/Carlos Bay/Ayres Bay *

2472 Copano Bay/Port Bay/Mission Bay *

2473 St. Charles Bay *

2481 Corpus Christi Bay *

2482 Nueces Bay *

2483 Redfish Bay *

2484 Corpus Christi Inner Harbor * - from US 181 to Viola Turning Basin

Oso Bay * - portion of the bay southeast of a line drawn from a point 550 meters west-northwest of the mouth of Oso Bay to the northern terminus of Shangrila Lane

2486 Blind Oso Bay * - portion of the bay northwest of a line drawn from a point 550 meters west-northwest of the mouth of Oso Bay to the northern terminus of Shangrila Lane

(2490) Upper Laguna Madre * - upper portion of bay north of the Saltillo Flats

2491 Lower Laguna Madre * - lower portion of the bay south of the Saltillo Flats

2492 Baffin Bay/Alazan Bay/Cayo del Grullo/Laguna Salada *

2493 South Bay *

2494 Brownsville Ship Channel *

2501 Gulf of Mexico * - from the Gulf shoreline to the limit of Texas' jurisdiction between Sabine Pass and the mouth of the Rio Grande

* The segment boundaries are considered to be the mean high tide line.

EPA is reviewing and has not approved descriptions for segments 2490 and 2491. These descriptions are not in effect for CWA purposes.

EPA is reviewing and has not approved proposed uses and dissolved oxygen criteria for segment reaches circled in red below. These criteria are not in effect for CWA purposes.

Appendix D - Site-specific Uses and Criteria for Unclassified Water Bodies

Water bodies listed in this appendix are those waters that are not designated segments listed in Appendix A of this section. The water bodies are included because a regulatory action has been taken or is anticipated to be taken by the commission or because sufficient information exists to provide an aquatic life use designation. The segment numbers listed refer to the designated segments as defined in Appendix C of this section. The county listed is the primary location where the use designation is. The water body is a tributary within the drainage basin of the listed segment. The aquatic life use (ALU) designations and dissolved oxygen (DO) criterion are the same as defined in §307.4(h) and §307.7(b)(3)(A) of this title (relating to General Criteria and Site-Specific Uses and Criteria, respectively). The description defines the specific area where the aquatic life use designation pertains. Recreational uses as defined in §307.4(j) of this title are assigned to the waters listed. Generally, there is not sufficient data on these waters to develop other conventional criteria and those criteria are the same as for the segment where the water body is located unless further site-specific information is obtained.

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0101	Carson, Hutchinson	Dixon Creek	I	4.0	Intermittent stream with perennial pools from the confluence with the Canadian River in Hutchinson County upstream to the confluence with Middle and East Dixon creeks in Carson County	The 24-hour minimum DO criterion is 2.0 mg/L.
0101	Hutchinson	Rock Creek	L	3.0	Perennial stream from the confluence with the Canadian River upstream to SH 136 in the City of Borger	
0201	Bowie	Jones Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Barkman Creek upstream to the western most crossing of FM 1398 near the City of Hooks	

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SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0202	Fannin	Bois d'Arc Creek	Н	5.0	Intermittent stream with perennial pools from the confluence with Sandy Creek near Davy Crockett Lake upstream to the confluence with Sandy Creek north of the City of Dodd City	
0202	Fannin	Bois d'Arc Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Sandy Creek north of the City of Dodd City upstream to the confluence with Pace Creek	
0202	Grayson	Corneliason Creek	L	3.0	Intermittent stream with perennial pools from the confluence with Mill Creek upstream to FM 1897 in the City of Bells	
0202	Lamar	Pine Creek	I	4.0	Perennial and intermittent stream from the confluence with the Red River upstream to the dam forming Lake Crook	
0203	Grayson	Big Mineral Creek	I	4.0	Intermittent stream with perennial pools from the normal pool elevation of Lake Texoma upstream to the confluence with an unnamed second order tributary on North Branch 2.4 km upstream of US 377 and upstream to the confluence with an unnamed second order tributary on South Branch 1.1 km upstream of US 377 north of the City of Whitesboro	
0203	Grayson	Little Mineral Creek	I	4.0	Intermittent stream with perennial pools from the normal pool elevation of Lake Texoma upstream to the confluence with an unnamed tributary approximately 0.7 km upstream of Reeves Road	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0204	Montague	Ritchie Creek	L	3.0	Intermittent stream with perennial pools from the confluence with Salt Creek upstream to SH 59 east of the City of Montague	
0302	Bowie	Big Creek	Ι	4.0	Intermittent stream with perennial pools from FM 2149 upstream to 1.3 km south of US 82 southeast of the City of New Boston	
0302	Bowie	Anderson Creek	I	4.0	Intermittent stream with perennial pools from the confluence with an unnamed tributary approximately 4.2 km downstream of SH 992 upstream to the confluence with an unnamed tributary approximately 2.2 km upstream of CR 4320	
0303	Franklin, Hopkins, Morris, Titus	White Oak Creek	I	4.0	Perennial stream from the confluence with the Sulphur River north of the City of Naples in Morris County upstream approximately 0.26 km upstream of FM 900 in northeast Hopkins County	
0303	Red River	Morrison Branch	Ι	4.0	Intermittent stream with perennial pools from the confluence with Little Mustang Creek upstream to approximately 0.7 km south of FM 909 southeast of the City of Bogata	
0304	Bowie	Wagner Creek	Ι	4.0	Perennial stream from the confluence with Days Creek upstream to a point 1.5 km upstream of IH 30	
0400	Harrison	Cross Bayou	Н	5.0	Perennial stream from the Texas/Louisiana border upstream to the headwaters approximately 0.2 km south of the cemetery at Stricklen Springs	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0401	Harrison	Harrison Bayou	Н	≤5.0	Intermittent stream with perennial pools from the confluence with Caddo Lake within the Caddo Lake National Wildlife Refuge (also known as the Longhorn Ordinance Works facility) east of the City of Karnack upstream to FM 1998 east of the City of Marshall	See footnote 1.
0402	Cass	Hughes Creek	Н	5.0	Perennial stream from the confluence with Black Cypress Creek upstream to the confluence with an unnamed first order tributary approximately 0.5 km downstream of FM 250	
0403	Marion, Upshur	Meddlin Creek	Н	5.0	Perennial stream from the confluence with Lake O' the Pines in Marion County upstream to US 259 in Upshur County	
0404	Camp	Dry Creek	Ι	4.0	Perennial stream from the confluence with Big Cypress Creek upstream to the confluence of Mile Branch and Little Creek	
0404	Camp	Sparks Branch	I	4.0	Perennial stream from the confluence with Dry Creek upstream to US 271	
0404	Morris	Brutons Creek	Ι	4.0	Perennial stream from the headwaters of Ellison Reservoir upstream to SH 49 near the City of Daingerfield	
0404	Morris	Unnamed tributary of Okry Creek	Ι	4.0	Perennial stream from the confluence with Okry Creek upstream to a point 0.26 km upstream of US 259 south of the City of Omaha	
0404	Titus	Hart Creek	Н	5.0	Perennial stream from the confluence with Big Cypress Creek upstream to 0.2 km upstream of FM 1402	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0404	Titus	Tankersley Creek	Н	5.0	Perennial stream from the confluence with Big Cypress Creek upstream to the confluence with an unnamed tributary 250 meters upstream of IH 30	
0407	Cass	Beach Creek	I	4.0	Perennial stream from Iron Ore Lake upstream to the confluence with an unnamed tributary 0.48 km upstream of Hwy 59	
0409	Upshur	Walnut Creek	Н	5.0	Perennial stream from the confluence with Little Cypress Creek upstream to the confluence with Little Walnut Creek	
0410	Cass	Black Cypress Creek/Bayou	Н	≤5.0	Intermittent stream with perennial pools from the confluence with Kelly Creek upstream to FM 250 north of the City of Hughes Springs	See footnote 1.
0502	Orange	County Relief Ditch	L	3.0	Perennial ditch from the confluence with the Sabine River upstream to SH 87	
0502	Newton	Caney Creek	Н	5.0	Perennial stream from the Sabine River upstream to the confluence with Martin Branch	
0502	Newton	Unnamed tributary of Dempsey Creek	I	4.0	Perennial stream from the confluence with Dempsey Creek to a headwater swamp near the City of Bon Weir	
0504	Shelby	Unnamed tributary of Flat Fork Creek	L	3.0	Intermittent stream with perennial pools from the confluence of an unnamed tributary 1.0 km upstream of FM 1645 upstream to 0.4 km upstream of SH 87	
0504	Shelby	Prairie Creek	Н	5.0	Perennial stream from the confluence with Cedar Creek upstream to SH 7	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0505	Gregg	Grace Creek	I	4.0	Perennial stream from the confluence with the Sabine River upstream to FM 1844	
0505	Gregg	Hawkins Creek	L	3.0	Perennial stream from the confluence with the Sabine River upstream to FM 2605 in the City of White Oak	
0505	Gregg	Rocky Creek	Н	5.0	Intermittent stream with perennial pools from the confluence with Prairie Creek upstream to the confluence with an unnamed first order tributary 0.6 km west of SH 135	
0505	Gregg, Rusk	Rabbit Creek	I	4.0	Perennial stream from the confluence with the Sabine River in Gregg County upstream to the confluence with Little Rabbit Creek in Rusk County	See footnote 2.
0505	Gregg	Campbells Creek	Ι	4.0	Intermittent stream with perennial pools from the confluence with Moody Creek upstream to the dam forming Lake Devernia	
0505	Harrison	Eightmile Creek	Ι	4.0	Perennial stream from the confluence with the Sabine River upstream to SH 31	A 24-hour average DO criterion of 3.0 mg/L applies from June through October.
0505	Harrison	Mason Creek	L	3.0	Intermittent stream with perennial pools from the confluence with a swamp 3.1 km downstream of IH 20 upstream to 0.2 km above IH 20 near the intersection with FM 968	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0505	Harrison	Wards Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Sewell Creek upstream to the confluence with an unnamed second order tributary approximately 0.6 km upstream of US 80	
0505	Panola	Wall Branch	I	4.0	Perennial stream from the confluence with Irons Bayou upstream to the confluence with an unnamed tributary 400 meters upstream of the City of Beckville wastewater treatment plant	
0505	Rusk	Little Rabbit Creek	I	4.0	Perennial stream from the confluence with Rabbit Creek upstream to the confluence with an unnamed tributary 0.15 km upstream of FM 850 east of the City of Overton	
0505	Rusk	Unnamed tributary of Sabine River	I	4.0	Perennial stream from the confluence with the Sabine River upstream 0.7 km above the Santa Fe Railroad crossing in the City of Easton	
0506	Rains	Sandy Creek	Н	5.0	Perennial stream from the confluence of Glade Creek upstream to the confluence of an unnamed tributary 0.3 km below SH 19	
0506	Smith	Wiggins Creek	Н	5.0	Perennial stream from the confluence with Harris Creek upstream to the dam impounding an unnamed reservoir located approximately 3.8 km upstream of FM 2015 northeast of the City of Tyler	
0506	Smith	Mill Creek	Н	5.0	Spring-fed perennial stream from the confluence with the Old Sabine River Channel upstream to the spring source at or above FM 2710	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0506	Van Zandt	Giladon Creek	I	4.0	Perennial stream from the confluence with Mill Creek upstream to the confluence with an unnamed tributary approximately 0.4 km upstream of FM 859 near the City of Edgewood	
0506	Van Zandt	Unnamed tributary of Grand Saline Creek	I	3.0	Perennial stream from the confluence with Grand Saline Creek upstream to the confluence with an unnamed tributary approximately 0.2 km downstream of US 80	A 24-hour average DO criterion of 3.0 mg/L applies due to low ambient levels of DO upstream of the City of Grand Saline discharge point.
0506	Wood	Unnamed tributary of Sabine River (Ninemile Creek)	Н	5.0	Perennial stream from the confluence with the Sabine River upstream to the confluence with an unnamed tributary immediately upstream of US 80 southeast of the City of Mineola	
0506	Wood	No. 5 Branch	Н	5.0	Intermittent stream with perennial pools from the confluence with Simpkins Creek upstream to US 69	
0507	Hunt	West Caddo Creek	L	3.0	Intermittent stream with perennial pools from the confluence with Brushy Creek upstream to the confluence of Middle Caddo Creek northwest of Caddo Mills	
0510	Rusk	Adaway Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Mill Creek upstream to the confluence with an unnamed tributary 0.36 km upstream of FM 782 north of the City of Henderson	
0510	Rusk	Mill Creek	I	4.0	Perennial stream from the confluence with Beaver Run upstream to the confluence with an unnamed tributary 50 meters upstream of FM 2276 north of the City of Henderson	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0511	Orange	Coon Bayou	Н	4.0	From the confluence with Cow Bayou upstream to the extent of tidal limits	
0511	Orange	Unnamed tributary of Cow Bayou	Н	4.0	From the confluence with Cow Bayou (north bank approximately 1.6 km from the Sabine River confluence) upstream to the extent of tidal limits	
0513	Newton, Jasper	Trout Creek	Н	5.0	Perennial stream from the confluence with Big Cow Creek in Newton County upstream to the confluence with Boggy Creek and Davis Creek in Jasper County	
0601	Orange	Tiger Creek	L	3.0	Perennial stream from the confluence with Meyer Bayou upstream to the confluence of Caney Creek near the City of Vidor	
0602	Hardin	Unnamed tributary (Booger Branch) of Massey Lake Slough	L	3.0	Perennial stream from Massey Lake Slough upstream to the Santa Fe Railroad crossing south of the City of Silsbee	
0603	Jasper	Sandy Creek	Н	5.0	Perennial stream from the confluence with B. A. Steinhagen Lake upstream to 0.5 km below FM 776 east of the City of Jasper	
0604	Anderson, Henderson	Caddo Creek	Н	5.0	Perennial stream from the confluence with the Neches River below Lake Palestine in Anderson County upstream to the dam of Caddo Creek Lake in Henderson County	
0604	Anderson	Unnamed tributary of Caddo Creek	Н	5.0	Perennial stream from the confluence with Caddo Creek approximately 1 km south of SH 175 upstream to its headwaters 0.6 km north of SH 175	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0604	Angelina	Cedar Creek	Ι	4.0	Perennial stream from the confluence with Jack Creek upstream to the confluence with an unnamed tributary adjacent to SH Loop 287	
0604	Jasper, Angelina	Graham Creek	Н	5.0	Perennial stream from the confluence with the Neches River in Jasper County upstream to the confluence with Mill Creek in Angelina County	
0604	Angelina	Hurricane Creek	I	4.0	Perennial stream from the confluence with Cedar Creek upstream to the confluence of two unnamed tributaries 100 meters upstream of SH Loop 287 in the City of Lufkin	
0604	Angelina	Sandy Creek	Н	5.0	Perennial stream from the confluence with Shawnee Creek upstream to the confluence with an unnamed tributary approximately 0.5 km upstream of US 69	
0604	Angelina	Shawnee Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Dry Creek upstream to the headwaters just downstream of the railroad line southeast of the City of Huntington	
0604	Cherokee	Alto Branch	Н	5.0	Perennial stream from the confluence of Larrison Creek upstream to FM 851 north of the City of Alto	
0604	Cherokee	Larrison Creek	Н	5.0	Perennial stream from US 69 southeast of the City of Alto upstream to 1.0 km above SH 21 east of Alto	
0604	Cherokee	One Eye Creek	Ι	4.0	Perennial stream from the confluence with McCann Creek upstream to the confluence with College Creek	

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0604	Polk	Dabbs Creek	Н	5.0	Perennial stream from the confluence of Caney Creek upstream to the confluence of Dabbs Branch approximately 4.5 km above FM 942	
0605	Henderson	Little Duncan Branch	I	4.0	Perennial stream from the confluence with Big Duncan Branch upstream to the dam impounding Jackson Lake	
0606	Smith	Black Fork Creek	L	3.0	Intermittent stream with perennial pools from a point 0.4 km downstream of FM 14 upstream to a point 0.2 km upstream of SH 31 in the City of Tyler	
0606	Smith	Black Fork Creek	Н	5.0	Perennial stream from the confluence with Prairie Creek upstream to a point 0.4 km downstream of FM 14 in the City of Tyler	A 24-hour average DO criterion of 4.0 mg/L applies from May through October.
0606	Smith	Prairie Creek	Н	5.0	Perennial stream from the confluence with the Neches River to a point immediately upstream of the confluence of Caney Creek	A 24-hour average DO criterion of 3.0 mg/L applies from May through October.
0606	Smith	Prairie Creek	Н	5.0	Perennial stream from a point immediately upstream of the confluence with Caney Creek upstream to the confluence with an unnamed tributary approximately 0.6 km downstream of the US 69 bridge crossing, which is located approximately 0.6 km south of the City of Lindale	
0607	Hardin	Boggy Creek	H	1.5	Intermittent stream with perennial pools from the confluence with Pine Island Bayou upstream to the confluence with an unnamed tributary 4.0 km downstream of the crossing of the Southern Pacific Railroad	The 24-hour minimum DO criterion is 0.5 mg/L.

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0607	Jefferson	Cotton Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Pine Island Bayou upstream to the confluence of an unnamed tributary 1.2 km south of the Southern Pacific Railroad	
0607	Hardin	Pine Island Bayou	I	1.5	Intermittent stream with perennial pools from the confluence with Willow Creek upstream to FM 787	The 24-hour minimum DO criterion is 1.0 mg/L.
0607	Jefferson, Liberty	Willow Creek	I	3.0	Intermittent stream with perennial pools from the confluence with Pine Island Bayou in Jefferson County upstream to the confluence with Bull Tongue Creek in Liberty County	A 24-hour average DO criterion of 2.0 mg/L and 24-hour minimum DO criterion of 1.5 mg/L apply for the months of June through September.
0608	Hardin	Cypress Creek	I	2.5	Intermittent stream with perennial pools from the confluence with Village Creek upstream to the confluence of Bad Luck Creek	The 24-hour minimum DO criterion is 2.0 mg/L.
0608	Tyler	Turkey Creek	Н	5.0	Perennial stream from the confluence with Village Creek upstream to 1.6 km above US 69 north of the City of Woodville	
0610	Sabine	Little Sandy Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Pomponaugh Creek upstream to 0.5 km above FM 83 north of the City of Pineland	
0610	San Augustine	Ayish Bayou	Н	5.0	Perennial stream from the headwaters of Sam Rayburn Reservoir upstream to the dam impounding Bland Lake approximately 0.1 km upstream of FM 1279 near the City of San Augustine	

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0611	Cherokee	Keys Creek	Н	5.0	Perennial stream from the confluence with Mud Creek upstream to the confluence of Barber Branch east of the City of Jacksonville	
0611	Cherokee, Smith	Mud Creek	Н	5.0	Perennial stream from the confluence with the Angelina River in Cherokee County upstream to a point immediately upstream of the confluence of Prairie Creek in Smith County	
0611	Cherokee	Ragsdale Creek	I	4.0	Perennial stream from the confluence with Keys Creek upstream to the confluence of an unnamed tributary 250 meters upstream of Canada Street in the City of Jacksonville	
0611	Nacogdoches	Bayou La Nana	Ι	4.0	Perennial stream from the confluence with the Angelina River upstream to FM 1878 in the City of Nacogdoches	
0611	Rusk	Unnamed tributary of Johnson Creek	L	3.0	Perennial stream from the confluence with Johnson Creek upstream to 2.4 km upstream of the confluence, which is 0.8 km south of SH 64 west of the City of Joinerville	
0611	Smith	Blackhawk Creek	I	4.0	Perennial stream from the confluence with Mud Creek upstream to the confluence of an unnamed tributary 120 meters upstream of SH 110 south of the City of Whitehouse	
0611	Smith	Henshaw Creek	Н	5.0	Perennial stream from the confluence with West Mud Creek upstream to FM 2813	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0611	Cherokee, Smith	West Mud Creek	L	3.0	Perennial stream from the confluence with Mud Creek in Cherokee County upstream to the confluence of an unnamed tributary 300 meters upstream of the most northern crossing of US 69 (approximately 2.25 km south of the intersection of Loop 323) in the City of Tyler	
0615	Angelina	Unnamed tributary of Mill Creek	L	3.0	Intermittent stream with perennial pools from the confluence with Mill Creek upstream to 1.0 km above FM 2251 north of the City of Lufkin	
0615	Angelina	Mill Creek	Н	5.0	Perennial stream from the confluence with Paper Mill Creek upstream to 1.0 km upstream of FM 2251 north of the City of Lufkin	
0701	Jefferson	Green Pond Gully	I	4.0	Perennial stream from the confluence with North Fork Taylor Bayou upstream to the confluence with an unnamed tributary approximately 2.4 km downstream of US 90 near the City of China	
0701	Jefferson	Mayhan Gully	I	4.0	Perennial stream from the confluence with Green Pond Gully upstream 6.0 km to the confluence with an unnamed tributary near the City of China	
0701	Jefferson	Rhodair Gully	I	4.0	Perennial stream from the confluence with Taylor Bayou upstream to US 69 near the City of Nederland	
0702	Jefferson	Main Canal D, Canal A, Canal B, Canal C	I	3.0	All perennial canals in Jefferson County Drainage District No. 7 that eventually drain into the tidal portion of Taylor Bayou at the pump house gate	The 24-hour average DO criterion is 3.0 mg/L.

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0704	Jefferson	Willow Marsh Bayou	I	4.0	Perennial stream from the confluence with Hillebrandt Bayou upstream to the confluence with an unnamed tributary immediately upstream of Old Sour Lake Road	
0801	Liberty	Linney Creek	Н	5.0	Intermittent stream with perennial pools from the confluence with Spring Branch upstream to its confluence with French Creek	
0801	Liberty	Spring Branch	Н	5.0	Intermittent stream with perennial pools from the confluence with Day Lake Slough upstream to the confluence with Big Bayou approximately 425 meters downstream of US 90	
0802	Polk	Choates Creek	Н	5.0	Perennial stream from the confluence with Long King Creek upstream to the confluence with an unnamed tributary approximately 3.0 km upstream of SH 146 near the City of Livingston	
0802	Polk	Long King Creek	Н	5.0	Perennial stream from the confluence with the Trinity River upstream to the confluence with an unnamed tributary approximately 1.2 km upstream of FM 350 near the City of Livingston	
0802	Polk	Crooked Creek	Н	5.0	Perennial spring-fed stream from the confluence with Long King Creek upstream to the headwaters	
0802	Polk	Unnamed tributary of Crooked Creek	Н	5.0	Perennial spring-fed stream from the confluence with Crooked Creek upstream to the headwaters	
0802	San Jacinto	Unnamed tributary of Coley Creek	Н	5.0	Perennial stream from the confluence with Coley Creek upstream to its origin at the culvert leading from Lake Run-Amuck at Wright Road	

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SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0803	Walker	Harmon Creek	Н	5.0	Perennial stream from the confluence with the normal pool elevation of Lake Livingston upstream to the confluence of East Fork Creek	
0803	Walker	Parker Creek	I	4.0	Perennial stream from the confluence with Harmon Creek upstream to the confluence with Town Branch	
0803	Walker	Turkey Creek	I	4.0	Perennial stream from the normal pool elevation of Lake Livingston upstream to the confluence with an unnamed tributary 2.85 km downstream of FM 980	
0804	Anderson	Box Creek	I	4.0	Perennial stream from the confluence of Elkhart Creek upstream to the Elkhart Lake dam northeast of the City of Elkhart	
0804	Anderson, Henderson	Catfish Creek	Н	4.0	Perennial stream from the confluence with Trinity River upstream to the confluence with Wolf Creek	A 24-hour average DO criterion of 3.0 mg/L and 24-hour minimum DO criterion of 2.0 mg/L apply for the months of May through September.
0804	Anderson	Keechi Creek	Н	5.0	Perennial stream from the confluence with the Trinity River upstream to a point 0.05 km upstream of FM 645	
0804	Anderson	Bassett Creek	Н	5.0	Perennial stream from the confluence with Town Creek upstream to Blue Lake	
0804	Anderson	Town Creek	Н	5.0	Perennial stream from the confluence with Keechi Creek upstream to SH 256	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0804	Freestone	Mims Creek	I	4.0	Perennial stream from the confluence with Upper Keechi Creek upstream to the confluence of an unnamed tributary approximately 2.1 km upstream of FM 1580 near the City of Fairfield	
0804	Henderson	Walnut Creek	Н	5.0	Intermittent stream with perennial pools from the confluence with an unnamed tributary approximately 0.5 km upstream of FM 753 upstream to FM 2494 in the City of Athens	
0804	Leon	Toms Creek	Н	5.0	Perennial stream from the confluence with the Trinity River upstream to the Missouri Pacific Railroad crossing near the City of Oakwood	
0804	Leon	Unnamed tributary (Northwest Branch)	Н	5.0	Perennial stream from the confluence with Toms Creek upstream to a point 0.3 km upstream of FM 831	
0809	Tarrant, Parker	Ash Creek	Н	5.0	Intermittent stream with perennial pools from Eagle Mountain Lake in Tarrant County upstream to its confluence with Mill Branch in Parker County	
0815	Ellis	Waxahachie Creek	I	4.0	Perennial stream from the confluence with the normal pool elevation of Bardwell Reservoir upstream to the confluence with North Prong Creek	
0818	Henderson	One Mile Creek	I	4.0	Perennial stream from the confluence with Valley View Reservoir upstream to the confluence with an unnamed tributary 0.8 km upstream of SH 19	

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SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0819	Kaufman, Dallas	Duck Creek	I	4.0	Perennial stream from the confluence with the East Fork Trinity River in Kaufman County upstream to the confluence of an unnamed tributary 0.6 km upstream of Jupiter Road in Dallas County	
0819	Rockwall	Buffalo Creek	L	3.0	Perennial stream from the confluence with the East Fork Trinity River upstream to 0.6 km above the confluence with Little Buffalo Creek	
0820	Collin	Cottonwood Creek	L	3.0	Perennial stream from the confluence with Rowlett Creek upstream to SH 5 (near Greenville Road)	
0820	Collin	Rowlett Creek	I	4.0	Perennial stream from the normal pool elevation of Lake Ray Hubbard upstream to the Parker Road crossing	
0821	Collin	Pilot Grove Creek	L	3.0	Perennial stream from the confluence of Desert Creek upstream to FM 121 approximately five mi north of the City of Blue Ridge	
0823	Collin, Grayson	Little Elm Creek	Ι	4.0	Perennial stream from FM 455 in Collin County upstream to 1.4 km above FM 121 in Grayson County near the City of Gunter	
0826	Denton	Denton Creek	Н	5.0	Perennial stream from the headwaters of Grapevine Lake upstream to the confluence of Trail Creek near the City of Justin	
0826	Denton	Trail Creek	Н	5.0	Perennial stream from the confluence with Denton Creek upstream to 2.1 km upstream of SH 156 in the City of Justin	

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0827	Dallas	Cottonwood Creek	I	4.0	Perennial stream from the confluence with White Rock Creek upstream to the confluence with an unnamed tributary approximately 0.25 km upstream of Campbell Road in the City of Richardson	
0827	Dallas	White Rock Creek	Ι	4.0	Perennial stream from the headwaters of White Rock Lake upstream to the confluence with McKamy Branch east of the City of Addison	
0831	Parker	Town Creek	I	4.0	Perennial stream from the confluence with Willow Creek to form the headwaters of South Fork Trinity River upstream to the confluence of an unnamed tributary 2.0 km (1.2 mi) upstream of US Highway 180	
0836	Limestone, Hill	Pin Oak Creek	I	4.0	Perennial stream from the confluence with the North Fork of Pin Oak Creek in Limestone County upstream to the confluence with Pin Oak Creek and an unnamed tributary flowing from the west approximately 2.8 km downstream of SH 171 near the City of Hubbard	
0840	Cooke	Spring Creek	Н	5.0	Perennial stream from the confluence with Pecan Creek upstream to the confluence with John's Branch	
0901	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
0901	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
0902	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
0902	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1001	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1001	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1001	Harris	Bear Lake	Н	4.0	Encompasses the entire tidal portion of the bay (tributary bay of San Jacinto River Tidal)	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1001	Harris	Gum Gully	Н	5.0	Perennial stream from the confluence with Jackson Bayou upstream to the confluence with an unnamed tributary approximately 0.4 km downstream of Huffman-Crosby Road	
1001	Harris	Jackson Bayou	Н	5.0	Perennial stream from a point immediately upstream of the tidal portion of Jackson Bayou upstream to the confluence with Gum Gully	
1001	Harris	Rickett Creek	L	3.0	Intermittent stream with perennial pools from San Jacinto River Tidal upstream to US 90	
1002	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1002	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1002	Liberty	Tarkington Bayou	I	4.0	Perennial stream from the confluence with Luce Bayou upstream to the confluence of Little Tarkington Bayou near the City of Cleveland	
1003	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1003	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1004	Montgomery	East Fork White Oak Creek	I	4.0	Perennial stream from the confluence with White Oak Creek upstream to the confluence with an unnamed tributary approximately 0.4 km upstream of League Line Road in the City of Panorama Village	
1004	Montgomery	Unnamed Tributary	I	4.0	Perennial stream from the confluence of the West Fork San Jacinto River upstream to the Missouri-Pacific Railroad bridge crossing located east of IH 45 and north of Needham Road approximately 10 km south of the City of Conroe	
1004	Montgomery	West Fork White Oak Creek	Н	5.0	Perennial stream from the confluence with White Oak Creek upstream to an on-channel impoundment on West Fork White Oak Creek 1.2 km upstream of League Line Road	
1004	Montgomery	Unnamed tributary of Woodsons Gully	Н	5.0	Perennial stream from the confluence with Woodsons Gully upstream to the headwaters	
1004	Montgomery	Woodsons Gully	Н	5.0	Perennial stream from the confluence with West Fork San Jacinto River upstream to the confluence with an unnamed tributary approximately 1.9 km upstream from Riley- Fussel Road	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1005	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1005	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1006	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1006	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1006	Harris	Carpenters Bayou	I	4.0	Perennial stream from 9.0 km upstream of the Houston Ship Channel upstream to 0.8 km upstream of Wallisville Road	
1006	Harris	Carpenters Bayou	L	3.0	Perennial stream from 0.8 km upstream of Wallisville Road upstream to Sheldon Reservoir	
1006	Harris	Halls Bayou	I	4.0	Perennial stream from the confluence with Greens Bayou upstream to US 59	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1006	Harris	Halls Bayou	L	3.0	Perennial stream from US 59 upstream to Frick Road	
1007	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1007	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1007	Harris	Berry Bayou Above Tidal	L	3.0	Perennial stream from 2.4 km upstream from the confluence with Sims Bayou upstream to the southern city limits of South Houston	
1007	Harris	Brays Bayou Above Tidal	L	3.0	Perennial stream from 11.5 km upstream from the confluence with the Houston Ship Channel upstream to SH 6	
1007	Harris	Keegans Bayou	L	3.0	Perennial stream from the confluence with Brays Bayou upstream to the Harris County line	
1007	Harris	Sims Bayou Above Tidal	L	3.0	Perennial stream from 11.0 km upstream of the confluence with the Houston Ship Channel upstream to Hiram Clark Drive	
1007	Harris	Willow Waterhole Bayou	L	3.0	Perennial stream from the confluence with Brays Bayou upstream to South Garden (in the City of Missouri City)	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1008	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1008	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1008	Harris	Metzler Creek	L	3.0	Intermittent stream with perennial pools from the confluence of Cannon Gully upstream to 0.2 km below Kuykendahl Road	
1008	Montgomery, Grimes	Mill Creek	I	4.0	Perennial stream from the normal pool elevation of Neidigk Lake in Montgomery County upstream to the confluence with Hurricane Creek and Kickapoo Creek in Grimes County	
1008	Montgomery	Panther Branch	L	3.0	Intermittent stream with perennial pools from the normal pool elevation of 125 feet of Lake Woodlands upstream to the confluence with Bear Branch	
1008	Montgomery	Panther Branch	I	4.0	Perennial stream from the confluence with Spring Creek upstream to the dam impounding Lake Woodlands	
1008	Montgomery	Arnold Branch	I	4.0	Intermittent stream with perennial pools from the confluence with Mink Branch upstream to the headwaters just upstream of FM 1774	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1008	Montgomery	Mink Branch	Н	5.0	Perennial stream from the confluence with Walnut Creek upstream to the confluence with an unnamed tributary approximately 1.0 km upstream of Nichols-Sawmill Road	
1008	Montgomery	Sulphur Branch	Н	5.0	Intermittent stream with perennial pools from an unnamed reservoir, known locally as Lake Apache, upstream to FM 1774. The unnamed reservoir impounds Sulphur Branch approximately 0.8 km upstream of the confluence with Walnut Creek.	
1009	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1009	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1009	Harris	Dry Creek	I	4.0	Perennial stream from the confluence with Cypress Creek upstream to the beginning of channelization at Jarvis Road, 0.6 km upstream from the confluence with Cypress Creek north of US 290	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1009	Harris	Dry Creek	L	3.0	Perennial stream from the point where channelization begins at Jarvis Road, which is 0.6 km upstream of the confluence with Cypress Creek, upstream to Harris County Flood Control District ditch K145-01-00, 0.29 km upstream of Spring Cypress Road north of US 290	
1009	Harris	Dry Gully	I	4.0	Perennial stream from its confluence with Cypress Creek upstream 3.2 km, which is approximately 1 km upstream of Louetta Road	
1009	Harris	Dry Gully	L	3.0	Perennial stream from a point 1.0 km upstream of Louetta Road upstream to Spring Cypress Road	
1009	Waller	Mound Creek	Н	5.0	Perennial stream from the confluence with Snake Creek, which together form Cypress Creek, upstream to an unnamed tributary 1.95 km upstream of FM 362	
1010	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1010	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1010	Montgomery	Dry Creek	I	4.0	Intermittent stream with perennial pools from Caney Creek upstream to the confluence with an unnamed tributary approximately 3.6 km upstream of SH 242	
1010	Montgomery	White Oak Creek	Н	5.0	Perennial stream from the confluence with Caney Creek upstream to the confluence with an unnamed tributary approximately 2.08 km upstream of US 59	
1012	Montgomery	Town Creek	I	4.0	Perennial stream from the confluence with Atkins Creek upstream to the confluence with Carwile Creek	
1012	Walker	Robinson Creek	I	4.0	Perennial stream from the confluence with the West Fork San Jacinto River upstream to the confluence with an unnamed second order tributary approximately 0.1 km upstream of Bethel Road	
1013	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1013	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1013	Harris	Little Whiteoak Bayou	Ι	4.0	Perennial stream from the confluence with Whiteoak Bayou upstream to the railroad tracks north of IH 610	
1013	Harris	Little Whiteoak Bayou	L	3.0	Perennial stream from the railroad tracks north of IH 610 upstream to Yale Street	
1014	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1014	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1014	Harris	Bear Creek	I	4.0	Perennial stream from the confluence with South Mayde Creek upstream to the confluence with an unnamed tributary 1.24 km north of Longenbaugh Road	
1014	Harris, Fort Bend	Buffalo Bayou	I	4.0	Perennial stream from SH 6 in Harris County upstream to the confluence with Willow Fork Buffalo Bayou in Fort Bend County	
1014	Harris	Dinner Creek	L	3.0	Perennial stream from the confluence with Langham Creek upstream to Frey Road	
1014	Harris	Horsepen Creek	L	3.0	Perennial stream from 0.62 km north of FM 529 upstream to a point 2.4 km upstream of SH 6	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1014	Harris	Horsepen Creek	I	4.0	Perennial stream from the confluence with Langham Creek upstream to where channelization begins, which is 0.62 km north of FM 529	
1014	Harris	Langham Creek	L	3.0	Perennial stream from the confluence with Dinner Creek upstream to FM 529	
1014	Harris	Langham Creek	I	4.0	Perennial stream from the confluence with Bear Creek upstream to the confluence with Dinner Creek	
1014	Harris	Mason Creek	I	4.0	Perennial stream from the confluence with Buffalo Bayou upstream to channelization, which is 1.55 km south of Franz Road	
1014	Harris	South Mayde Creek	L	3.0	Perennial stream from an unnamed tributary 1.3 km west of Barker-Cypress Road upstream to an unnamed tributary 1.05 km south of Clay Road	
1014	Harris	South Mayde Creek	I	4.0	Perennial stream in the Addicks Reservoir flood pool area from the confluence with Buffalo Bayou upstream to the confluence with an unnamed tributary 1.3 km (0.8 mi) west of Barker-Cypress Road	
1014	Harris	Turkey Creek	I	4.0	Perennial stream from the confluence with South Mayde Creek upstream to a point 0.16 km south of Clay Road	
1014	Fort Bend, Waller	Willow Fork Buffalo Bayou	I	4.0	Intermittent stream with perennial pools from the confluence with Buffalo Bayou in Fort Bend County upstream to 1.0 km above US 90 in Waller County	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1015	Montgomery	Mound Creek	Н	5.0	Perennial stream from the confluence with Lake Creek upstream to the confluence with an unnamed tributary approximately 0.75 km downstream of Rabon-Chapel Road	
1016	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1016	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1016	Harris	Garners Bayou	L	3.0	Perennial stream from the confluence with Greens Bayou Above Tidal upstream to 1.5 km north of Atascocita Road	
1017	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1017	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1017	Harris	Brickhouse Gully/Bayou	L	3.0	Perennial stream from the confluence with Whiteoak Bayou upstream to Gessner Road	
1017	Harris	Cole Creek	L	3.0	Perennial stream from the confluence with Whiteoak Bayou upstream to Flintlock Street	
1017	Harris	Vogel Creek	L	3.0	Perennial stream from the confluence with Whiteoak Bayou upstream to a point 3.2 km upstream of the confluence with Whiteoak Bayou	
1101	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
1101	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1101	Galveston	Magnolia Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Clear Creek upstream to 0.8 km upstream of the confluence with the second unnamed tributary	
1102	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1102	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1102	Galveston, Brazoria	Cowart Creek	L	3.0	Intermittent stream with perennial pools from the confluence with Clear Creek in Galveston County upstream to SH 35 in Brazoria County	
1102	Brazoria	Mary's Creek/North Fork Mary's Creek	Ī	4.0	Perennial stream from the confluence with Clear Creek upstream to the confluence with North Fork Mary's Creek and South Fork Mary's Creek near FM 1128, approximately 5 km southwest of the City of Pearland. Includes perennial portions of North Fork Mary's Creek from the confluence of Mary's Creek to the confluence of an unnamed tributary approximately 3.2 km upstream of FM 1128.	
1105	Brazoria	Flores Bayou	I	4.0	Perennial stream from a point 2.6 km downstream of County Road 171 upstream to SH 35	
1111	Brazoria	Flag Lake Drainage Canal	Ι	4.0	Perennial water body from the seaward pump station near the confluence with East Union Bayou upstream to the inland pump station near the confluence with the Brazos River	
1113	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1113	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
1202	Fort Bend	Rabbs Bayou	L	3.0	Perennial stream from Smithers Lake upstream to the confluence with an unnamed tributary below HW 59	
1202	Fort Bend	Unnamed oxbow slough	L	3.0	An unnamed oxbow slough immediately north of the intersection of US 90A and SH 6 at the head of Ditch H	
1202	Fort Bend	Big Creek	I	4.0	Intermittent stream with perennial pools from the confluence with an unnamed tributary 2.1 km downstream of FM 2977 upstream to the confluence of Cottonwood Creek and Coon Creek	
1202	Grimes	Beason Creek	I	4.0	Perennial stream from the confluence with the Brazos River upstream to the confluence with an unnamed tributary 2.8 km upstream of FM 362	
1202	Waller	Brookshire Creek	L	3.0	Perennial stream from the confluence of an unnamed tributary located 0.2 km downstream of SH 359 upstream to 500 meters upstream of US 90	
1202	Waller	Bessies Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Bessies Bayou upstream to the confluence with an unnamed tributary approximately 0.7 km upstream of FM 359 northwest of the City of Pattison	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1202	Waller	Clear Creek	Н	5.0	Perennial stream from the confluence with the Brazos River upstream to the confluence with an unnamed tributary approximately 0.2 km upstream of FM 1488	
1202	Washington	Hog Branch	Ι	4.0	Perennial stream from the confluence with Little Sandy Creek upstream to Loop 318 in the City of Brenham	
1202	Washington	Little Sandy Creek	Ι	4.0	Perennial stream from the confluence with New Year Creek to a point 100 meters upstream of SH 36	
1202	Washington	New Year Creek	Ι	4.0	Perennial stream from the confluence with Woodward Creek upstream to the confluence of Big Sandy Creek	
1203	Bosque	Steele Creek	Н	5.0	Perennial stream from the confluence with Whitney Lake upstream to 2.4 km above the confluence of Cox Branch	
1205	Hood	McCarthy Branch	L	3.0	Intermittent stream with perennial pools from the confluence with Lake Granbury upstream to FM 208	
1206	Parker, Hood, Erath	Kickapoo Creek	I	4.0	Intermittent stream with perennial pools from the confluence with the Brazos River in Parker County upstream to Bailey's Lake at the Hood- Erath county line near the City of Lipan	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1206	Parker	Rock Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Dry Creek upstream to the confluence with an unnamed second order tributary approximately 0.7 km downstream of Lake Mineral Wells	
1206	Parker	Unnamed tributary of Rock Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Rock Creek upstream to the confluence with an unnamed first order tributary approximately 0.2 km upstream of Hood Road, west of Lake Mineral Wells	
1209	Brazos	Carters Creek	I	4.0	Perennial stream from the confluence with the Navasota River upstream to the confluence of an unnamed tributary 0.5 km upstream of FM 158	
1209	Brazos	Wickson Creek	L	3.0	Perennial stream from the confluence with an unnamed first order tributary (approximately 1.3 km upstream of Reliance Road crossing) upstream to the confluence with an unnamed first order tributary approximately 15 meters upstream of Dilly Shaw Road	
1209	Brazos	Wolfpen Creek	L	3.0	Intermittent stream with perennial pools from the confluence with Carter Creek upstream to near Bizzell Street in the City of College Station	
1211	Burleson	Davidson Creek	Ι	4.0	Intermittent stream with perennial pools from the confluence with Yegua Creek upstream to 0.2 km above SH 21 near the City of Caldwell	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1217	Burnet	North Fork Rocky Creek	Ι	4.0	Intermittent stream with perennial pools from the confluence with South Rocky Creek upstream to its headwaters approximately 11 km west of US 183	A 24-hour average DO criterion of 2.0 mg/L and a 24-hour minimum DO criterion of 1.0 mg/L apply when stream flows are below 1.5 cfs.
1217	Lampasas	Sulphur Creek	Н	5.0	Perennial stream from the confluence with the Lampasas River upstream to the spring source located in the City of Lampasas	
1221	Comanche	Indian Creek	I	4.0	Perennial stream from the confluence with Armstrong Creek approximately 1.5 km downstream of SH 36 upstream to the confluence with an unnamed tributary approximately 0.1 km upstream of US 377	
1221	Hamilton	Pecan Creek	Ι	4.0	Perennial stream from the confluence with the Leon River upstream to the confluence with an unnamed tributary approximately 3.5 km upstream of SH 36 near the City of Hamilton	
1224	Eastland	Leon River Above Leon Reservoir	Н	5.0	From the headwaters of Leon Reservoir upstream to the confluence of the North Fork Leon River and the South Fork Leon River (includes Lake Olden)	
1224	Eastland	South Fork Leon River	Н	5.0	From the confluence of the North Fork Leon River upstream to the confluence of the Middle Fork Leon River	
1227	Johnson	Buffalo Creek	L	3.0	Intermittent stream with perennial pools from the confluence with the Nolan River upstream to the confluence of East Buffalo Creek and West Buffalo Creek	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1227	Johnson	Mustang Creek	I	4.0	Intermittent stream with perennial pools from the confluence with the Nolan River upstream to FM 916 near Rio Vista	
1230	Eastland	Palo Pinto Creek	Н	5.0	Perennial stream from the confluence with the normal pool elevation of Lake Palo Pinto which is near the confluence with an unnamed tributary at the Texas and Pacific Railroad crossing upstream to the dam forming Hagaman Lake	
1232	Stephens	Gonzales Creek	Н	5.0	Perennial stream from the confluence with Hubbard Creek upstream to the confluence with Brown Branch approximately 1.2 km upstream of Elliott Street in the City of Breckenridge	
1241	Lubbock	North Fork Double Mountain Fork Brazos River	L	3.0	Perennial stream from the confluence with Double Mountain Fork Brazos River upstream to the dam forming Lake Ransom Canyon	
1242	Brazos	Cottonwood Branch	I	4.0	Intermittent stream with perennial pools from the confluence with Still Creek upstream 0.95 km to the confluence with an unnamed tributary	
1242	Brazos	Still Creek	Н	5.0	Perennial stream from the confluence with Thompsons Creek upstream to the confluence with Cottonwood Branch	
1242	Brazos	Thompsons Creek	Н	5.0	Perennial stream from the confluence with the Brazos River upstream to the confluence with Still Creek	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1242	Brazos	Thompsons Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Still Creek upstream to the confluence with Thompsons Branch, north of FM 1687	A 24-hour average DO criterion of 2.0 mg/L and a 24-hour minimum DO criterion of 1.0 mg/L apply from June to September.
1242	Brazos	Unnamed tributary of Cottonwood Branch	Ι	4.0	Intermittent stream with perennial pools from the confluence with Cottonwood Branch upstream to the headwaters	
1242	Milam, Falls	Pond Creek	L	3.0	Perennial stream from the confluence with the Brazos River in Milam County, upstream to the confluence with Live Oak Creek in Falls County	
1242	Falls	Deer Creek	Н	5.0	Perennial stream from the confluence with the Brazos River upstream to the confluence with Dog Branch	
1242	McLennan	Tradinghouse Reservoir	Н	5.0	Encompasses the entire reservoir up to the normal pool elevation of 447 feet	
1242	Brazos, Robertson	Little Brazos River	Н	5.0	Perennial stream from the confluence with the Brazos River in Brazos County upstream to the confluence of Walnut Creek in Robertson County west of the City of Calvert	
1244	Williamson	Brushy Creek	Н	5.0	Perennial stream from the confluence of South Brushy Creek upstream to the confluence of North Fork Brushy Creek and South Fork Brushy Creek	
1244	Williamson	Mustang Creek	I	4.0	Perennial stream from the confluence with Brushy Creek upstream to the confluence of North Fork Mustang Creek	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1244	Williamson	Cluck Creek	Н	5.0	Perennial stream from the confluence with South Brushy Creek upstream to the confluence with an unnamed tributary 0.6 km downstream of US 183	
1245	Fort Bend	Red Gully	I	4.0	Perennial stream from the confluence with Oyster Creek upstream to 1.7 km upstream of Old Richmond Road	
1246	McLennan	Comanche Springs Spring Brook	Н	5.0	Spring-fed intermittent stream with perennial pools from the confluence with Harris Creek upstream to and including Comanche Springs approximately 2.1 km upstream of US 84 west of the City of McGregor	
1246	McLennan	Harris Creek	Н	5.0	Spring-fed intermittent stream with perennial pools from the confluence with South Bosque River upstream to the confluence with an unnamed tributary approximately 1.19 km upstream of US 84 west of the City of McGregor	
1246	McLennan	Tonk Creek	Н	5.0	Intermittent stream with perennial pools from the confluence with Middle Bosque/South Bosque River upstream to the confluence with an unnamed tributary 1.0 km upstream of FM 185 near Tonkawa Falls Park	
1246	McLennan	Unnamed tributary of South Bosque River (Sheep Creek)	I	4.0	Perennial stream from the confluence with the South Bosque River upstream to 1.0 km above SH 317 south of the City of McGregor	
1248	Williamson	Berry Creek	Н	5.0	Perennial stream from the confluence with the San Gabriel River upstream to the confluence of Stapp Branch southwest of the City of Florence	

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SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1304	Matagorda, Brazoria	Linnville Bayou	L	3.0	Intermittent stream with perennial pools from a point 1.1 km above the confluence with Caney Creek in Matagorda County upstream to a point 0.1 km above SH 35 in Brazoria/Matagorda counties	
1305	Matagorda	Hardeman Slough	I	4.0	Perennial stream from the confluence with Caney Creek upstream to the confluence with an unnamed tributary approximately 1.9 km downstream of FM 3156 near the City of Van Vleck	
1402	Colorado	Cummins Creek	E	6.0	Perennial stream from the confluence with the Colorado River upstream to the confluence of Boggy Creek at FM 1291	
1402	Fayette	Allen Creek	Ι	4.0	Intermittent stream with perennial pools from the confluence of Pool Branch upstream to its headwaters south of the City of Fayetteville	
1402	Fayette	Buckners Creek	Н	5.0	Perennial stream from the confluence with the Colorado River upstream to the confluence with Chandler Branch 1.6 km upstream of FM 154	
1402	Fayette	Cedar Creek Reservoir/Lake Fayette	Н	5.0	Encompasses the entire reservoir up to the normal pool elevation of 390 feet	
1402	Fayette	Cedar Creek	Н	5.0	Perennial stream from the confluence with the Colorado River upstream to the dam forming Cedar Creek Reservoir/Lake Fayette	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1402	Colorado	Skull Creek	Н	5.0	Perennial stream from the confluence with the Colorado River Below La Grange, upstream approximately 48 km (30 mi) to its headwaters	A 24-hour average DO criterion of 3.0 mg/L and a 24-hour minimum DO criterion of 2.0 mg/L apply from March 15 to October 15.
1404	Burnet	Hamilton Creek	I	4.0	Perennial stream from the confluence with Delaware Creek upstream to the confluence with an unnamed tributary in the City of Burnet 1.1 km upstream of the Southern Pacific Railroad	
1412	Mitchell, Howard	Beals Creek	L	3.0	Intermittent stream with perennial pools from the confluence with the Colorado River in Mitchell County upstream to the confluence of Mustang Draw and Sulphur Springs Draw in Howard County	
1412	Mitchell	North Fork Champion Creek	L	3.0	Intermittent stream with perennial pools from the confluence with an unnamed tributary approximately 2.3 km upstream of IH 20 to its headwaters north of the City of Loraine	
1412	Scurry	Deep Creek	I	4.0	Perennial stream from the confluence with Hell Roaring Hollow Creek upstream to the confluence with an unnamed first order tributary approximately 0.07 km downstream of RR 1605	
1414	Gillespie	Barons Creek	Н	5.0	Perennial stream from the confluence with the Pedernales River upstream to the most northern crossing of US 87 northwest of the City of Fredericksburg	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1415	Kimble	Johnson Fork Creek	Н	5.0	Perennial stream from the confluence with the Llano River upstream to source springs (Rio Bonito Springs) south of the City of Segovia	
1415	Mason	Comanche Creek	L	3.0	Intermittent stream with perennial pools from the confluence with the Llano River upstream to the confluence of West Comanche Creek near the City of Mason	
1416	McCulloch	Brady Creek	I	4.0	Perennial stream and intermittent stream with perennial pools from the confluence with an unnamed tributary approximately 5.0 km east of FM 2309 east of the City of Brady upstream to Brady Lake dam	
1418	Coleman	Hord Creek	I	4.0	Perennial stream from the confluence with an unnamed second order tributary approximately 0.7 km downstream of Live Oak Street crossing upstream to the confluence with Bachelor Prong Creek	
1420	Callahan	Kaiser Creek	L	3.0	Intermittent stream with perennial pools from the confluence with North Prong Pecan Bayou upstream to 0.5 km upstream of FM 2700 south of the City of Clyde	
1420	Brown, Callahan	Turkey Creek	Н	5.0	From the confluence with Pecan Bayou in Brown County upstream to SH 36 in Callahan County	
1426	Runnels	Elm Creek	Н	5.0	Perennial stream from the confluence with the Colorado River upstream to the dam approximately 300 meters downstream of US Highway 67	

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SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1427	Travis	Slaughter Creek	I	3.0	Intermittent stream with perennial pools from the confluence with Granada Hills Tributary upstream to the headwaters above US 290 west of the City of Austin	The 24-hour minimum DO criterion is 2.0 mg/L.
1427	Travis	Slaughter Creek	M	2.0	Intermittent stream from the confluence with an unnamed tributary 0.25 km upstream of FM 2304 upstream to the confluence with Granada Hills Tributary	
1427	Travis	Slaughter Creek	Н	5.0	Perennial stream from the confluence with Onion Creek upstream to the confluence with an unnamed tributary 0.25 km upstream of FM 2304	
1428	Travis	Gilleland Creek	Н	5.0	Perennial stream from the confluence with the Colorado River upstream to an unnamed tributary 0.39 km downstream of Edgemere Drive	
1428	Travis	Gilleland Creek	Н	5.0	Intermittent stream with perennial pools from the confluence with an unnamed tributary 0.39 km downstream of Edgemere Drive upstream to the spring source (Ward Spring) northwest of the City of Pflugerville	
1428	Bastrop	Dry Creek	Н	5.0	Perennial stream from the mouth of the Colorado River upstream to 150 meters upstream of the confluence with Cottonwood Creek	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1428	Bastrop, Travis	Dry Creek	L	3.0	Intermittent stream with perennial pools from 150 meters upstream of the confluence with Cottonwood Creek in Bastrop County upstream to just below the confluence with an unnamed tributary located approximately 2.73 km upstream of Wolf Lane in Travis County. Channel topography in this reach is a braided to anastomosing channel, and all channels within the reach are intermittent with perennial pools.	
1428	Travis	Dry Creek	E	6.0	Perennial stream from just below the confluence with an unnamed tributary located approximately 2.73 km upstream of Wolf Lane upstream to the confluence of North Fork Dry Creek and Dry Creek	
1428	Travis	Dry Creek	L	3.0	Intermittent stream with perennial pools from the confluence with North Fork Dry Creek upstream to US 183 south of Pilot Knob	
1428	Travis	Harris Branch	Н	5.0	Perennial stream from the confluence with Gilleland Creek upstream to the confluence with an unnamed tributary approximately 2.6 km downstream of Gregg Lane	
1428	Travis	Unnamed tributary of Harris Branch	L	3.0	Intermittent stream with perennial pools from the confluence with Harris Branch upstream to the confluence with an unnamed tributary approximately 0.7 km downstream of the Old Railroad grade	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1434	Travis	Wilbarger Creek	Н	5.0	Perennial stream from the confluence of an unnamed tributary approximately 2.3 km (1.4 mi) upstream of US 290 upstream to the confluence of an unnamed tributary 2.3 km (1.4 mi) upstream of Cameron Road	
1434	Travis	Wilbarger Creek	Н	5.0	Intermittent stream with perennial pools from the confluence of an unnamed tributary approximately 2.3 km (1.4 mi) upstream of Cameron Road upstream to the confluence of an unnamed tributary approximately 3.7 km (2.3 mi) downstream of FM 685	
1434	Travis	Unnamed tributary of Wilbarger Creek	Н	5.0	Perennial stream from the confluence with Wilbarger Creek approximately 2.3 km (1.4 mi) upstream of the Cameron Road crossing of Wilbarger Creek upstream to the confluence of two forks of the tributary downstream of Jesse Bohls Road	
1434	Bastrop	Cedar Creek	Н	5.0	Perennial stream from the confluence with the Colorado River upstream to the confluence of an unnamed tributary at FM 535	
1434	Bastrop	Gazley Creek	I	4.0	Perennial stream from the confluence with the Colorado River above the City of La Grange upstream to the confluence with an unnamed tributary approximately 3.25 km upstream of the southern-most crossing of the Missouri-Kansas-Texas Railroad south of the City of Smithville	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1434	Bastrop, Travis	Maha Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Cedar Creek in Bastrop County upstream to the confluence with an unnamed tributary approximately 0.25 km upstream of US 183 in Travis County	
1501	Matagorda	Wilson Creek	Н	5.0	Perennial stream from the confluence with the Tres Palacios River upstream to the confluence with the first tributary south of SH 35	
1602	Lavaca, DeWitt	Big Brushy Creek	Н	5.0	Perennial stream from the confluence with Clarks Creek in Lavaca County upstream to the confluence with an unnamed tributary just downstream of the Loop 51 (US Highway B77) bridge crossing in DeWitt County south of the City of Yoakum	
1602	Lavaca	Rocky Creek	Н	5.0	Perennial stream from the confluence with the Lavaca River upstream to 1.0 km above FM 533 west of the City of Shiner	
1602	Lavaca	Lavaca River	Н	5.0	Intermittent stream with perennial pools from the confluence of Campbells Creek west of the City of Hallettsville upstream to the confluence with West Prong Lavaca River downstream of the City of Moulton	A 24-hour average DO criterion of 3.0 mg/L and a 24-hour minimum DO criterion of 2.0 mg/L apply from March 15 through October 15.
1604	Wharton	East Mustang Creek	I	4.0	Intermittent stream with perennial pools from the confluence with Middle Mustang Creek upstream to the confluence with an unnamed tributary approximately 4.2 km upstream of US 59 northeast of the City of Louise	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1605	Lavaca, Fayette	West Navidad River	Н	5.0	Intermittent stream with perennial pools from the confluence with the Navidad River above Lake Texana in Lavaca County upstream to the confluence with Walker Branch approximately 0.5 km upstream of IH 10 in Fayette County	
1803	Gonzales, Karnes, Wilson	Elm Creek	I	3.0	Perennial stream from the confluence with Sandies Creek in Gonzales County upstream to the headwaters in Wilson County	
1803	DeWitt, Gonzales, Guadalupe	Sandies Creek	I	3.0	Perennial stream from the confluence with Guadalupe River in DeWitt County upstream to the headwaters in Guadalupe County	
1806	Kerr	Camp Meeting Creek	Н	5.0	Intermittent stream with perennial pools from the confluence with the Guadalupe River upstream to an unnamed impoundment, located downstream of Ranchero Road in the City of Kerrville.	A 24-hour average DO criterion of 4.0 mg/L and a 24-hour minimum DO criterion of 2.0 mg/L apply from July 1 to September 30.
1806	Kerr	Camp Meeting Creek	Н	5.0	Intermittent stream with perennial pools from an unnamed impoundment located downstream of Ranchero Road upstream to the dam of an unnamed impoundment approximately 0.65 km upstream of Tree Lane in the City of Kerrville.	A 24-hour average DO criterion of 2.0 mg/L and a 24-hour minimum DO criterion of 1.0 mg/L apply from July 1 to September 30.
1810	Caldwell	Town Branch	Н	5.0	Perennial stream from the confluence with Plum Creek upstream to US 183 in the City of Lockhart	
1902	Bexar	Martinez Creek	I	4.0	Perennial stream from the confluence with Escondido Creek upstream to Binz-Engleman Road	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
1903	Medina	Polecat Creek	Н	5.0	Perennial stream from 6.4 km above the confluence with the Medina River upstream to the spring source 1.3 km above FM 2790 southeast of the City of LaCoste	
1910	Bexar	Salado Creek	L	4.0	Intermittent stream with perennial pools from the confluence with Beitel Creek upstream to Nacogdoches Road	The 24-hour minimum DO criterion is 3.0 mg/L.
2108	Frio, Medina	Chacon Creek	I	4.0	Perennial stream from the confluence with San Francisco Perez Creek in Frio County upstream to the confluence of an unnamed tributary approximately 0.8 km north of SH 132 in Medina County	
2108	Medina	Fort Ewell Creek	I	4.0	Perennial stream from the confluence with Chacon Creek upstream to the confluence of the Natalia Canal approximately 0.8 km north of SH 132	
2118	Atascosa	Atascosa River	L	3.0	Intermittent stream with perennial pools from the confluence with Galvan Creek upstream to the confluence with Palo Alto Creek	
2118	Atascosa	West Prong Atascosa River	I	4.0	Intermittent stream with perennial pools from the confluence with the Atascosa River upstream to the confluence with an unnamed tributary at IH 35	
2201	Cameron, Hidalgo, Willacy	Drainage Ditches	L	3.0	Perennial freshwater drainage ditches that flow into the segment in the counties listed	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
2202	Cameron, Hidalgo	Drainage Ditches	L	3.0	Perennial freshwater drainage ditches that flow into the segment in the counties listed	
2304	Val Verde	Cienegas Creek	Н	5.0	Perennial stream from the confluence with the Rio Grande River upstream to the headwater spring source (Cienegas Springs) approximately 0.8 km north of Cienega Lane west of the City of Del Rio	
2310	Terrell	Independence Creek	E	6.0	Perennial stream from the confluence with the Pecos River upstream to the mouth of Surveyor Canyon (upstream of FM 2400)	
2421	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
2421	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
2422	Chambers	Anahuac Ditch	I	4.0	Perennial stream from the confluence with the West Fork Double Bayou upstream to FM 563 near the City of Anahuac	
2425	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
2425	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
2425	Harris	Taylor Lake	Н	4.0	Encompasses the entire tidal portion of the bay (tributary bay of Clear Lake) including Taylor Bayou Tidal	
2426	Harris	Goose Creek	I	4.0	Perennial stream from Baker Street upstream to the confluence of an unnamed tributary from Highlands Reservoir	
2426	Harris	Goose Creek	L	3.0	Perennial stream from the confluence with East Fork Goose Creek upstream to Baker Street	
2427	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
2427	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
2428	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
2428	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
2429	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
2429	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
2430	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
2430	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
2432	Brazoria	Mustang Bayou	I	4.0	Perennial stream from CR 166 upstream to the confluence with an unnamed tributary 0.3 km upstream of SH 35	

SEGMENT	COUNTY	WATER BODY	ALU	DO	DESCRIPTION	ADDITIONAL SITE-SPECIFIC FACTORS
2437	Galveston	Hurricane Levee Canal	I	3.0	Man-made tidal ditch from the confluence with the south shore of the Texas City Ship Channel upstream to the Texas City Hurricane Levee pump station 0.23 km upstream of Loop 197 South	
2438	Harris	Concrete lined and maintained channelized ditches and streams	L	3.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, whether concrete lined or earthen, and are maintained by the district	
2438	Harris	Unmaintained channelized ditches and streams	I	4.0	Perennial (including effluent-dominated) freshwater Harris County Flood Control District ditches that have been channelized into trapezoidal channels, are earthen, and are not maintained by the district	
2453	Jackson, Victoria	Garcitas Creek	Н	4.0	Perennial tidal stream from the confluence with Lavaca Bay in Jackson/Victoria County upstream to the confluence with Mercado Creek in Victoria County	A 24-hour average DO criterion of 3.0 mg/L and a 24-hour minimum DO criterion of 2.0 mg/L apply from June to September.
2491	Cameron, Hidalgo	Drainage Ditches	L	3.0	Perennial freshwater drainage ditches that flow into the segment in the counties listed	
2494	Cameron	Drainage Ditches	L	3.0	Perennial freshwater drainage ditches that flow into the segment in the counties listed	

The following site-specific multiple regression equation is used to determine the 24-hour average and minimum DO criteria. A 24-hour average DO criterion of 5 mg/L is the upper bounds if the indicated DO equation predicts DO values that are higher than 5.0 mg/L. When the 24-hour average DO is predicted to be lower than 1.5 mg/L, then the DO criterion is set as 1.5 mg/L. When the 24-hour average DO criterion is greater than 2.0 mg/L, the corresponding 24-hour minimum DO criterion should be 1.0 mg/L less than the calculated 24-hour average criterion. When the 24-hour average DO criterion is less than or equal to 2.0 mg/L, the corresponding 24-hour minimum DO criterion should be 0.5 mg/L less than the calculated 24-hour average criterion. When stream flow is below 0.1 cfs, then 0.1 cfs is the presumed flow that should be used in the equation. This equation supersedes Table 4 of §307.7(b)(3)(A) of this title.

DO = 12.11 - 0.309 T + 1.05 logQ - 1.02 logWS

where: DO = 24-hour average DO criterion

T = temperature in degrees Celsius (C) Q = flow in cubic feet per second cfs

WS = watershed size in square km (up to 1000 km²)

A site-specific low-flow of 5.95 cfs applies to achieve the 4.0 mg/L DO 24-hour average criterion at the critical summer-time temperatures of 29.7°C. A site-specific DO criterion of 3.0 mg/L as a 24-hour average applies from May to October when flows are \geq 1.2 ft³/s and < 5.95 cfs. The following site-specific multiple regression equation relating DO averages, flow, and temperature may be used to determine appropriate headwater flows:

 $O = e^{(0.253T-10.4 + DO)/0.625}$

where Q = flow in cfs

T = temperature in degrees Celsius

DO = 24-hour average DO

Appendix E - Site-specific Toxic Criteria

The water bodies found in this appendix have a site-specific standard for the chemical parameter listed. The procedures for obtaining a site-specific standard are specified in §307.2(d) of this title (relating to Description of Standards) and result in a site-specific adjustment factor (such as a water-effect ratio (WER), multiplier, etc.). For most of the chemical parameters listed, this factor is used along with hardness in the formulas listed in Table 1 of §307.6(c)(1) of this title (relating to Toxic Materials) to calculate the dissolved portion of the parameter. The newly calculated criteria from Table 1 of §307.6(c)(1) of this title are then used to calculate discharge limits for permitted facilities. To calculate discharge limits, use the site-specific adjustment factors listed in this appendix in accordance with the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194) as amended. If a smaller portion of a water body has a separate and different site-specific adjustment factor, this factor supersedes any other factor specified for the larger water body that includes the smaller water body. In establishing Texas Pollutant Discharge Elimination System (TPDES) permit conditions, the site-specific criteria only apply to the referenced facility except where otherwise noted in footnote 3 of this appendix.

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
0301	Remnant channel of Baker Slough from the edge of the mixing zone in Segment 0301 upstream to the permitted outfall in Cass County	01339-000	International Paper Co.	Aluminum ^{1, 4}	6.39	
0303	River Crest Reservoir	00945-000	Luminant Generation Co.	Copper ^{1, 3}	3.4	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
0305	Unnamed tributary of Cottonwood Branch from the edge of the mixing zone with an unnamed NRCS reservoir upstream to permitted Outfall 001 in Lamar County	04127-000	La Frontera Holdings, LLC	Copper ^{1, 4}	3.98	
0403	Johnson Creek Reservoir in Marion County	01331-000	SWEPCO	Copper ^{1, 3}	5.15	Hardness = 20 mg/L TSS = 4 mg/L
0404	Big Cypress Creek in Camp, Titus, and Morris Counties	00348-000	U.S. Steel Tubular Products, Inc.	Lead ^{2, 3}	Acute Criterion = 38.3 µg/L Chronic Criterion = 5.3 µg/L	Hardness = 40.1 mg/L Criteria listed in the "Site-Specific Adjustment Factor" column include a correction factor of 0.924152.
0404	Welsh Reservoir in Titus County	01811-000	SWEPCO	Aluminum ^{1, 3}	10	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
0404	Unnamed tributary of Hart Creek from the edge of the mixing zone in Hart Creek upstream to the permitted outfall in Titus County	10575-004	City of Mount Pleasant	Copper ^{1, 4}	7.16	
0409	Sugar Creek from the edge of the mixing zone in Segment 0409 upstream to the permitted outfall in Upshur County	10457-001	City of Gilmer	Copper ^{1, 4}	6.83	
0501	Sabine River Tidal in Orange County	00475-000	E.I. DuPont de Nemours	Copper ^{1, 4}	1.9	
0505	Sabine River from the confluence with Brandy Branch approximately 1 mi (1.6 km) upstream from Highway 43 in Harrison County upstream to SH 149 in Gregg County	00471-000	Eastman Chemical Co.	Copper ^{1, 4}	6.7	Hardness = 40 mg/L
0506	Mill Creek from CR 1106 upstream to the permitted outfall in Van Zandt County	10399-002	City of Canton	Copper ^{1, 4}	7.71	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
0510	Mill Creek from the edge of the mixing zone in Segment 0510 upstream to the confluence with Adaway Creek in Rusk County	10187-002	City of Henderson	Copper ^{1, 4}	4.95	
0511	Unnamed tidal drainage ditch from the edge of the mixing zone in Segment 0511 upstream to the permitted outfall in Orange County	00454-000	Firestone Polymers, Inc.	Copper ^{1, 4}	2.54	
0511	Unnamed tidal drainage ditch from the edge of the mixing zone in Segment 0511 upstream to the permitted outfall in Orange County	00670-000	Honeywell, Inc.	Copper ^{1, 4}	2.39	
0601	The entirety of the mixing zone for permitted Outfall 001 within the Neches River Tidal	00462-000	ExxonMobil	Zinc ^{1, 4}	2.89	
0601	All non-tidally influenced ditches upstream of Star Lake Canal upstream to permitted Outfall 001 in Jefferson County	04731-000	INEOS Calabrian Corp.	Copper ^{1,4}	3.26	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
0603	Sandy Creek from the edge of the mixing zone in Segment 0603 upstream to the permitted outfall in Jasper County	10197-001	City of Jasper	Copper ^{1, 4}	4.67	
0604	Buck Creek from the confluence with Clayton Creek upstream to the confluence with the unnamed tributary receiving the discharge from the permitted outfall in Angelina County	01268-000	Lufkin Industries, LLC	Copper ^{1, 4}	7.94	
0604	Unnamed tributary of Bear Creek from the edge of the zone of initial dilution in Bear Creek upstream to the permitted outfall in Polk County	01902-000	International Paper – Corrigan	Aluminum ^{1, 4}	5.58	
0604	One-eye Creek from the edge of the mixing zone in Box Creek upstream to the permitted outfall in Cherokee County	10447-001	City of Rusk	Copper ^{1, 4}	4.3	Hardness = 40 mg/L
0611	Lake Stryker	00946-000	Luminant	Aluminum ^{1, 3}	3.7	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
0611	Ragsdale Creek from the edge of the mixing zone in Keys Creek upstream to the permitted outfall in Cherokee County	10693-001	City of Jacksonville	Copper ^{1, 4}	4.6	Hardness = 48 mg/L
0615	Papermill Creek from the edge of the zone of initial dilution in Segment 0615 upstream to the permitted outfall in Angelina County	00368-000	Abitibi Consolidated	Aluminum ^{1, 4}	8.39	
0805	Forney Branch from the edge of the mixing zone in White Rock Creek upstream to the permitted outfall in Dallas County	01251-000	Luminant Generation Co.	Copper ^{1, 4}	3.9	
0806	West Fork Trinity River in Tarrant County	00555-000	Luminant Generation Co.	Copper ^{1, 4}	2.5	
0820	Muddy Creek from the edge of the mixing zone with Segment 0820 upstream to permitted Outfall 001 in Dallas County	14216-001	North Texas Municipal Water Dist.	Copper ^{1,4}	4.98	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
0823	Cantrell Slough from the edge of the mixing zone in Segment 0823 upstream to permitted Outfall 001 in Denton County	14323-001	UTRWD	Copper ^{1, 4}	6.43	
0901	Unnamed tributary from the edge of the mixing zone with Segment 0901 upstream to permitted Outfall 001 in Chambers County	02940-000	Enterprise Products Operating, LLC - Mont Belvieu	Copper ^{1,3}	6.314	
0901	Unnamed tributary from the edge of the mixing zone with Segment 0901 upstream through an unnamed ditch to permitted Outfall 002 in Chambers County	02940-000	Enterprise Products Operating, LLC - Mont Belvieu	Copper ^{1, 3}	3.247	
1001	San Jacinto River Tidal in Harris County	NA	NA	Copper ^{1, 3}	1.8	
1005	Houston Ship Channel/San Jacinto River Tidal in Harris County	NA	NA	Copper ^{1, 3}	1.8	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
1005	Phillips Ditch and Santa Anna Bayou: Phillips Ditch from the edge of the mixing zone in Santa Anna Bayou upstream to permitted Outfall 001 in Harris County	01539-000	Oxy Vinyls	Nickel ^{1, 4}	1.13	
1005	The Houston Ship Channel/San Jacinto River tidal from the edge of the mixing zone in Segment 2421 upstream to the confluence with Santa Anna Bayou in Harris County	02097-000	Oxy Vinyls	Copper ^{1, 4}	1.8	
1005	Santa Anna Bayou from the edge of the mixing zone in Segment 1005 upstream to permitted Outfall 001 in Harris County	04119-000	Akzo Nobel Chemicals LLC and Akzo Nobel Functional Chemicals LLC	Zinc ^{1, 4}	1.82	Based on total zinc - a partitioning coefficient will not be used to calculate permit limits (assume 100% is in dissolved form)
1005	Phillips Ditch from the edge of the MZ in Santa Anna Bayou upstream to permitted Outfall 001 in Harris County	04119-000	Akzo Nobel Chemicals LLC and Akzo Nobel Functional Chemicals LLC	Aluminum ^{1, 4}	3.93	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
1006	Houston Ship Channel Tidal in Harris County	NA	NA	Copper ^{1, 3}	1.8	
1006	Greens Bayou Tidal from the edge of the mixing zone in the Houston Ship Channel upstream to the confluence with Spring Gully in Harris County	01031-000	NRG Texas Power LLC	Copper ^{1, 4}	2.4	TSS = 14.75 mg/L Dissolved Fraction Available = 87%
1006	Tucker Bayou from the edge of the mixing zone in Segment 1006 upstream to the permitted outfall in Harris County	01429-000	Safety-Kleen	Copper ^{1, 4}	2.3	
1007	Houston Ship NA Channel/Buffalo Bayou Tidal in Harris County		NA	Copper ^{1, 3}	1.8	
1008	Montgomery County Drainage District No. 6 Channel IIDF from the confluence with Spring Creek, Segment 1008, upstream to the permitted outfall	12030-001	Rayford Road MUD	Copper ^{1,4}	6.82	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
1008	Panther Branch from the edge of the mixing zone in Lake Woodlands upstream to the permitted outfall in Montgomery County	zone in River Authority stream to all in		Copper ^{1, 4}	6.45	
1009	Faulkey Gully from the mixing zone with Segment 1009 upstream to permitted Outfall 001	11832-001	Faulkey Gully MUD	Copper ^{1, 3}	3.997	
1009	Cypress Creek and Harris County Flood Control District Ditch K159-00-00 from the edge of the mixing zone in Cypress Creek upstream to the permitted outfall in Harris County	13296-002	Harris County MUD No. 358	Copper ^{1, 4}	8.47	
1013	Buffalo Bayou Tidal in Harris County	NA	NA	Copper ^{1, 3}	1.8	
1014	Willow Fork Bayou from the edge of the mixing zone with Segment 1014 in Fort Bend County upstream to permitted Outfall 001 in Waller County	02229-000	Igloo Products Corp.	Aluminum ^{1,4}	5.43	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
1014	Unnamed ditch and Harris County Flood Control ditch W167-01-00 from the edge of the mixing zone in Turkey Creek upstream to the outfall in Harris County	03994-000	National Oilwell Varco, L.P.	Zinc ^{1,4}	5.24	
1014	Turkey Creek from the edge of the mixing zone with Segment 1014 upstream through Harris County Flood Control District W167-04-00 and a series of unnamed ditches to permitted Outfall 001 in Harris County	04760-000	Weatherford U.S. L.P.	Copper ^{1,4}	4.55	
1014	Horsepen Creek in Harris County	12726-001	Harris Co. MUD No. 155	Copper ^{1, 4}	4.65	
1014	Willow Fork Drainage Dist. Lateral Ditch VA1 from the edge of the mixing zone in Segment 1014 upstream to the permitted outfall in Fort Bend County	13558-001	Cinco MUD No. 1	Copper ^{1, 4}	7.26	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
1113	Horsepen Bayou in Harris County	10539-001	City of Clear Lake Water Authority	Copper ^{1, 4}	2.74	
1201	Segment 1201 in Brazoria County	00007-000	Dow Chemical	Copper ^{1, 4}	1.6	
1209	Unnamed ditch from the edge of the zone of initial dilution of the unnamed ditch in Gibbons Creek Reservoir upstream to the permitted Outfall 001 in Grimes County	02120-000	Texas Municipal Power Agency	Aluminum ^{1, 4}	6.81	
1209	Unnamed tributary of Sulphur Creek from the edge of the mixing zone with Sulphur Creek upstream to the permitted outfall	03996-000	Tenaska Frontier Partners, LTD.	Copper ^{1, 4}	2.64	
1236	Ft. Phantom Hill Reservoir in Jones County	01422-000	AEP North Texas	Aluminum ^{1, 3}	2.9	
1242	Lake Creek Reservoir in McClennan County	00954-000	Luminant Generation Co.	Copper ^{1, 3}	2.4	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
1412	Red Draw Reservoir in Howard County	01768-000	768-000 ALON USA Selenium		Acute Criterion = 219 µg/L Chronic Criterion = 7.5 µg/L	
1701	Victoria Barge Canal in Calhoun County	00447-000	Dow Chemical	Copper ^{1, 4}	1.81	
1701	Victoria Barge Canal in Victoria County	03943-000	Air Liquide	Copper ^{1, 4}	2.55	
2427	San Jacinto Bay in Harris County	NA	NA	Copper ^{1, 3}	1.8	
2431	Moses Bayou from the edge of the mixing zone in Segment 2431 upstream to the drainage ditches receiving the discharge from the permitted outfall in Galveston County	01263-000	ISP Technologies	Copper ^{1, 4}	1.88	
2453	Saltwater portion of Lynn Bayou below the facility's outfall.	10251-001	City of Port Lavaca	Copper ^{1, 4}	1.57	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
2481	Kinney Bayou tidal/Jewel Fulton Canal from the edge of the mixing zone in Ingleside Cove upstream to the permitted outfall in San Patricio County	10422-001	City of Ingleside	Copper ^{1, 4}	2.0	
2481	Kinney Bayou tidal/Jewel Fulton Canal from the edge of the mixing zone in Ingleside Cove upstream to the permitted outfall in San Patricio County	10422-001	City of Ingleside	Zinc ^{1, 4}	1.14	
2484	Tidal portion of concrete lined ditches receiving effluent from the permitted outfall from the edge of the mixing zone with the Tule Lake portion of Segment 2484 upstream to the end of tidal influence	03137-000	MarkWest Javelina Company, L.L.C.	Copper ^{1,4}	4.13	Based on total copper - a partitioning coefficient will not be used to calculate permit limits (assume 100% is in dissolved form)
2485	La Volla Creek from the edge of the mixing zone in Oso Creek upstream to the permitted outfall in Nueces County	10401-003	City of Corpus Christi	Copper ^{1, 4}	2.07	

SEGMENT	SITE DESCRIPTION	TPDES	FACILITY	PARAMETER	SITE-SPECIFIC ADJUSTMENT FACTOR	ADDITIONAL SITE- SPECIFIC CONSIDERATIONS
2494	Vadia Ancha from the edge of the mixing zone in Segment 2494 upstream to the tidal mud flats receiving the discharge from the permitted outfall in Cameron County	10350-001	Laguna Madre Water District	Copper ^{1, 4}	2.52	

- 1 Results based on a water-effect ratio study.
- The equation used for acute criterion calculation is $e^{(1.273(\ln hardness) \cdot 0.9744)}$, and the equation used for chronic criterion calculation is $e^{(1.273(\ln hardness) \cdot 2.958)}$.
- 3 Site-specific criteria apply to the entire water body listed under the "Site Description" column. If the site described is a designated segment, the boundaries of the segment are given in Appendix C in this section.
- 4 Site-specific criteria may only be used in the evaluation of permit limits for the facility listed under the "TPDES" and "Facility" columns.

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Appendix F: Site-specific Nutrient Criteria for Selected Reservoirs

In the following table, nutrient criteria for selected reservoirs are specified in terms of concentrations of chlorophyll *a* in water as a measure of the density of phytoplankton (suspended microscopic algae). Notes on the derivation of criteria are described below¹.

Long-term medians of chlorophyll *a* data will be used in the assessment. The criteria are applicable to the monitoring site(s) listed in the Site Identification (ID) column for each reservoir or to comparable monitoring sites. If sampling data are available from more than one of the listed sites, then the data are pooled to provide a single median for purposes of comparing to the criteria. Segment numbers in parentheses () indicate that the water body is in close proximity to the segment listed, but the water body is not part of the segment.

Criteria in the following table are adjusted to minimum levels that could generally be historically quantified by laboratory chemical analyses. When a chlorophyll a criterion is below 5.00 μ g/L, then the criterion is set at the minimum default criterion of 5.00 μ g/L. The calculated values are shown in parentheses ().

Procedures to assess attainment for chlorophyll a criteria are described in §307.9(c)(2) and (e)(7) of this title (relating to Determination of Standards Attainment).

Segment	Reservoir Name	Site ID	Chlorophyll a
No.			Criteria (µg/L)
0208	Lake Crook	10137	7.38
0209	Pat Mayse Lake	10138	12.40
0213	Lake Kickapoo	10143	6.13
0217	Lake Kemp	10159	8.83
0223	Greenbelt Lake	10173	5.00 (4.59)
0405	Lake Cypress Springs	10312	17.54
0510	Lake Cherokee	10445	8.25
0603	B. A. Steinhagen Lake	10582	11.67
0610	Sam Rayburn Reservoir	14906	6.22
0613	Lake Tyler	10637	13.38
0613	Lake Tyler East	10638	10.88
0614	Lake Jacksonville	10639	5.60
0811	Bridgeport Reservoir	10970	5.32
0813	Houston County Lake	10973	11.10
0816	Lake Waxahachie	10980	19.77
0817	Navarro Mills Lake	10981	15.07
1207	Possum Kingdom Lake	11865	10.74
1216	Stillhouse Hollow Lake	11894	5.00 (2.07)
1220	Belton Lake	11921	6.38
1228	Lake Pat Cleburne	11974	19.04
1231	Lake Graham	11979	6.07

Segment	Reservoir Name	Site ID	Chlorophyll <i>a</i>
No.	Tieser von Transe		Criteria (µg/L)
1233	Hubbard Creek Reservoir	12002	5.61
1234	Lake Cisco	12005	5.00 (4.64)
1235	Lake Stamford	12006	16.85
1240	White River Lake	12027	13.85
1249	Lake Georgetown	12111	5.00 (3.87)
1403	Lake Austin	12294	5.00 (3.58)
1404	Lake Travis	12302	5.00 (3.66)
1405	Marble Falls Lake	12319	10.48
1406	Lake Lyndon B. Johnson	12324	10.29
1408	Lake Buchanan	12344	9.82
1419	Lake Coleman	12398	6.07
1422	Lake Nasworthy	12418	16.91
(1426)	Oak Creek Reservoir	12180	6.93
1429	Lady Bird Lake (Town	12476	7.56
	Lake)		
1433	O.H. Ivie Reservoir	12511	5.77
1805	Canyon Lake	12597	5.00 (4.11)
1904	Medina Lake	12826	5.00 (2.15)
2116	Choke Canyon Reservoir	13019	12.05

1 Criteria for chlorophyll *a* were calculated from historical sampling data and set at the upper parametric prediction intervals (Hahn and Meeker, 1991, Statistical Intervals, a Guide for Practitioners. Wiley Series in Probability and Mathematical Statistics. Wiley-Interscience Publications). Historical sampling data was used from 1990 through 2008, and only reservoirs with 30 or more datapoints for chlorophyll *a* are included. As needed, the historical period was extended back through the period of record (potentially back as far as 1969) in order to acquire sufficient data for individual reservoirs. Values that were less than the minimum historical reporting limit were assigned a value of one-half the reporting limit. Data outside an interquartile range of 1.5 on a Tukey box plot were excluded as outliers. Statistical calculations of prediction intervals were based on a 0.01 confidence level, and the number of samples that are available for assessing compliance was assumed to be 10.

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EPA is reviewing site-specific recreational uses and criteria for unclassified water bodies in Appendix G. Criteria circled in red are not in effect for CWA purposes.

Appendix G - Site-specific Recreational Uses and Criteria for Unclassified Water Bodies

The water bodies listed in this appendix are those waters that are not designated segments listed in Appendix A of this section. The water bodies are included because a regulatory action has been taken or is anticipated to be taken by the commission or because sufficient information exists to provide a recreational use designation. The segment numbers listed refer to the designated segments as defined in Appendix C of this section. The county listed is the primary location where the use designation is assigned. The water body is a tributary within the drainage basin of the listed segment. The recreation use designations and bacteria indicator criteria are the same as defined in §307.4(j) of this title (relating to General Criteria) and §307.7(b) of this title (relating to Site-Specific Uses and Criteria). The description defines the specific area where the recreation use designation applies. Generally, there is not sufficient data on these waters to develop other conventional criteria and those criteria are the same as for the segment where the water body is located unless further site-specific information is obtained.

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION	
0101	Hutchinson, Carson	Dixon Creek	SCR 1	630	E. coli	From the confluence with the Canadian River in Hutchinson County upstream to the confluence of the Middle, West, and East Dixon creeks in Carson County	
0201	Bowie	Mud Creek	SCR 1	630	E. coli	From the confluence with the Red River upstream to the headwaters near the intersection of US 82 and CR 3403	
0202	Grayson, Fannin	Bois d' Arc Creek	SCR 1	630	E. coli	From the confluence with the Red River in Fannin County upstream to the headwaters northwest of the City of Whitewright in Grayson County	
						wintewright in Grayson County	
0202	Grayson, Fannin	Choctaw Creek	SCR 1	630	E. coli	From the confluence with the Red River east of the City of Denison in Fannin County to the upstream perennial portion	
						near the intersection of SH 56 and SH 289 in Grayson County	

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
0202	Lamar	Smith Creek	SCR 1	630	E. coli	From the confluence with Pine Creek upstream to the confluence of two unnamed streams south of Loop 286 in
					349.	the City of Paris
0202	Grayson	Iron Ore Creek	SCR 1	630	E. coli	From the confluence with Choctaw Creek upstream to the headwaters near FM 120 west of the City of Denison
0214	Wichita	Buffalo Creek	SCR 1	630	E. coli	From the confluence with the Wichita River upstream to the headwaters east of the City of Electra
0230	Wilbarger, Foard	Paradise Creek	SCR 1	630	E. coli	From the confluence with the Pease River east of the City of Vernon in Wilbarger County upstream to the headwaters 0.5 km west of the intersection of US 70 and CR 233 in Foard County
0404	Titus	Tankersley Creek	SCR 1	630	E. coli	From the confluence with Big Cypress Creek upstream to the confluence with an unnamed tributary 0.25 km upstream of
						IH 30
0404	Titus	Hart Creek	SCR 1	630	E. coli	From the confluence with Big Cypress Creek upstream to 0.2 km upstream of FM 1402

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
0502	Jasper, Newton	Nichols Creek	SCR 1	630	E. coli	From the confluence with the Sabine River in Newton County upstream to the headwaters at FM 1013 northwest of the City of Kirbyville in Jasper County
0505	Gregg	Grace Creek	SCR 1	630	E. coli	From the confluence with the Sabine River upstream to the headwaters at FM 1844
0507	Hunt, Rockwall	South Fork of Sabine River	SCR 1	630	E. coli	From the confluence with Lake Tawakoni in Hunt County upstream to the confluence of Parker and Sabine creeks in Rockwall County
0512	Hopkins, Wood	Running Creek	SCR 1	630	E. coli	From the confluence with Lake Fork at the Hopkins/Wood County line upstream to the headwaters 0.4 km south of SH 11,
						southeast of the City of Sulphur Springs, excluding Elberta Lake, in Hopkins County
0512	Hopkins, Rains	Elm Creek	SCR 1	630	E. coli	From the confluence with Lake Fork in Rains County upstream to the headwaters at CR 1110 southwest of the City of
						Sulphur Springs in Hopkins County
0606	Smith	Prairie Creek	SCR 1	630	E. coli	From the confluence with the Neches River upstream to an unnamed tributary
						approximately 0.6 km downstream of US 69

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
0611	Smith, Mud Creek Cherokee	Mud Creek	SCR 1	630	E. coli	From the confluence with the Angelina River in Cherokee County upstream to
						the confluence with Prairie Creek in Smith County
0615	Angelina	Paper Mill Creek	SCR 1	630	E. coli	From the confluence with Angelina River/Sam Rayburn Reservoir upstream to the confluence with Mill Creek
						to the confluence with Mill Creek
0810	Wise	Big Sandy Creek	SCR 1	630	E. coli	From the confluence with Waggoner Creek to FM 1810 west of the City of Alvord
0810	Wise	Garrett Creek	SCR 1	630	E. coli	From the confluence with Salt Creek upstream to Wise County Road approximately 22.5 km upstream of SH 114
0810	Wise	Salt Creek	SCR 1	630	E. coli	From the confluence with Garrett Creek to a point 17.7 km upstream
0838	Tarrant, Johnson	Walnut Creek	SCR 1	630	E. coli	From the confluence with Joe Pool Lake in Tarrant County upstream to the
						headwaters at Spring Street in the City of Burleson in Johnson County
1017	Harris	Brickhouse Gully/Bayou	SCR 1	630	E. coli	From the confluence with Whiteoak Bayou Above Tidal upstream to the headwaters 1.1 km upstream of Gessner Road

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
1017	Harris	Unnamed tributary of Whiteoak Bayou	SCR 1	630	E. coli	From the confluence with Whiteoak Bayou Above Tidal downstream of TC Jester Blvd upstream to Hempstead Hwy north of US Hwy 290
1017	Harris	Unnamed tributary of Whiteoak Bayou	SCR 1	630	E. coli	From the confluence with Whiteoak Bayou Above Tidal near W 11th Street upstream to a point immediately upstream of W 26th Street south of Loop 610 W
1202	Austin	Allens Creek	SCR 1	630	E. coli	From the confluence with the Brazos River upstream to the headwaters 1.6 km north of IH 10
1209	Brazos	Wickson Creek	SCR 1	630	E. coli	From the confluence with an unnamed first order tributary approximately 1.3
						km upstream of Reliance Road crossing upstream to the confluence with an unnamed first order tributary approximately 15 meters upstream of Dilly Shaw Road
1209	Robertson, Brazos	Cedar Creek	SCR 1	630	E. coli	From the confluence with the Navasota River in Brazos County upstream to the
						confluence with Moores Branch and Rocky Branch in Robertson County
1209	Robertson	Duck Creek	SCR 1	630	E. coli	From the confluence with the Navasota River upstream to Twin Oak Reservoir dam excluding Twin Oak Reservoir

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
1209	Grimes	Gibbons Creek	SCR 1	630	E. coli	From the confluence with the Navasota River upstream to SH 90, excluding Gibbons Creek Reservoir
1209	Madison	Shepherd Creek	SCR 1	630	E. coli	From the confluence with the Navasota River upstream to a point 1.1 km upstream of FM 1452
1209	Limestone, Robertson	Steele Creek	SCR 1	630	E. coli	From the confluence with Navasota River in Robertson County upstream to a point
						3.8 km upstream of FM 147 in Limestone County
1210	Hill, Limestone	Navasota River Above Lake Mexia	SCR 1	630	E. coli	From the confluence with the headwaters of Lake Mexia in Limestone County to a point 2.0 km upstream of SH 31 in Hill County
1212	Burleson, Lee, Milam	East Yegua Creek	SCR 1	630	E. coli	From the confluence with Middle Yegua and Yegua creeks southeast of the City of Dime Box in Lee County to the upstream portion of the stream south of Alcoa Lake in Milam County

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
1221	Comanche, Erath	Resley Creek	SCR 2	1030	E. coli	From the confluence of the Leon River east of the City of Gustine in Comanche County to the headwaters 3.3 km upstream of SH 6 in Erath County
1221	Comanche	South Leon River	SCR 1	630	E. coli	From the confluence of the Leon River south of the City of Gustine to the upstream perennial portion of the stream south of the City of Comanche
1221	Comanche	Indian Creek	SCR 2	1030	E. coli	From confluence with Leon River upstream to the confluence with Armstrong Creek

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
1221	Comanche, Erath	Walnut Creek	SCR 2	1030	E. coli	From the confluence with Leon River in Comanche County upstream to the headwaters 3.8 km west of the City of Dublin in Erath County
1222	Comanche	Duncan Creek	SCR 1	630	E. coli	From the confluence with Proctor Lake northeast of the City of Comanche to the upstream perennial portion of the stream west of the City of Comanche
1223	Erath, Comanche	Armstrong Creek	SCR 2	1030	E. coli	From the confluence with the Leon River downstream of Leon Reservoir in Comanche County upstream to the headwaters 9.9 km east of SH 16 in Erath County
1226	Erath	Indian Creek	SCR 1	630	E. coli	From the confluence with the North Bosque River upstream to the headwaters 5.6 km east of the City of Stephenville
1226	Erath	Sims Creek	SCR 1	630	E. coli	From the confluence with the North Bosque River upstream to the headwaters 5.6 km southeast of the City of Stephenville, excluding reservoir UB19
1226	Erath	Alarm Creek	SCR 1	630	E. coli	From the confluence with the North Bosque River upstream to the headwaters 4.8 km west of the City of Stephenville, excluding reservoir UB17

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
1226	Erath	Little Green Creek	SCR 1	630	E. coli	From the confluence with Green Creek upstream to the confluence with the North Fork and South Fork of Little Green Creek 3.8 km south of SH 6
1242	Brazos	Cottonwood Branch	SCR 1	630	E. coli	From the confluence with Still Creek upstream 0.95 km to the confluence with an unnamed tributary
1242	Brazos	Thompsons Creek	SCR 1	630	E. coli	From the confluence with the Brazos River upstream to the confluence with Thompsons Branch north of FM 1687
1242	Robertson	Campbells Creek	SCR 1	630	E. coli	From the confluence with the Little Brazos River upstream to the headwaters 1.6 km west of Old San Antonio Road
1242	Robertson	Mud Creek	SCR 1	630	E. coli	From the confluence with the Little Brazos River upstream to the confluence with Touchstone Branch and Wolf Den Branch
1242	Robertson	Pin Oak Creek	SCR 1	630	E. coli	From the confluence with the Little Brazos River upstream to the headwaters 3.3 km south of the City of Franklin
1242	Robertson	Spring Creek	SCR 1	630	E. coli	From the confluence with the Little Brazos River upstream to the headwaters 2.4 km north of FM 391

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
1242	Robertson	Walnut Creek	SCR 1	630	E. coli	From the confluence with the Little Brazos River upstream to the headwaters 1.6 km south of the City of White Rock
1242	Falls, McLennan, Limestone	Big Creek	SCR 1	630	E. coli	From the confluence with the Little Brazos River upstream to the confluence with unnamed creeks near the northeast corner of the City of Mart
1245	Fort Bend	Bullhead Bayou	SCR 1	630	E. coli	From the confluence with Steep Bank Creek in the City of First Colony upstream to the headwaters in the City of Pecan Grove
1245	Fort Bend	Unnamed tributary of Bullhead Bayou	SCR 1	630	E. coli	From the confluence with Bullhead Bayou upstream to the headwaters
1246	Coryell, McLennan	Wasp Creek	SCR 1	630	E. coli	From the confluence with Tonk Creek in the City of Crawford in McLennan County upstream to the headwaters in Coryell County 0.24 km east of FM 185
1247	Williamson	Willis Creek	SCR 1	630	E. coli	From the confluence with the headwaters of Granger Lake upstream to CR 313

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
1255	Erath	Goose Branch	SCR 2	1030	E. coli	From the confluence with the South Fork of the North Bosque River 4.0 km west of the City of Stephenville upstream to the headwaters 0.8 km north of FM 8, excluding Goose Branch Reservoir
1255	Erath	North Fork Upper North Bosque River	SCR 2	1030	E. coli	From the confluence with the South Fork of the Upper North Bosque River in the City of Stephenville upstream to the headwaters 3.2 km north of FM 219, excluding reservoirs UB1 and UB2
1255	Erath	Scarborough Creek	SCR 2	1030	E. coli	From the confluence with the North Fork of the Upper North Bosque River upstream to the headwaters 0.2 km southeast of FM 219, excluding Scarborough Creek Reservoir
1255	Erath	Unnamed Tributary of Goose Branch	SCR 2	1030	E. coli	From the confluence with Goose Branch upstream to the headwaters 0.3 km southeast of the intersection of FM 8 and FM 219

SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
1255	Erath	Unnamed Tributary of Scarborough Creek	SCR 1	630	E. coli	From the confluence with Scarborough Creek 1.6 km west of SH 108 upstream to the headwaters 0.48 km north of FM 219
1255	Erath	Woodhollow Branch	SCR 2	1030	E. coli	From the confluence with the South Fork of the North Bosque River 9.65 km northwest of the City of Stephenville upstream to the headwaters 2.4 km north of FM 219
1255	Erath	Dry Branch	SCR 1	630	E. coli	From the confluence with the Upper North Bosque River upstream to the headwaters 3.7 km east of SH 106, excluding reservoir UB6
1302	Colorado, Wharton	Gum Tree Branch	SCR 1	630	E. coli	From the confluence with West Bernard Creek near CR 252 in Wharton County upstream approximately 24.1 km to the headwaters near RR 102

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SEGMENT	COUNTY	WATER BODY	USE	GEOMETRIC MEAN colonies/100 mL	INDICATOR BACTERIA	DESCRIPTION
2004	Bee	Aransas Creek	SCR 1	630	E. coli	From the confluence with the Aransas River upstream approximately 10 km to the headwaters upstream of US 59