

EPA-approved Water Effects Ratios (WERs) for Texas Surface Water Quality Standards (updated April 29, 2009)							
Segment	Water body	TPDES (1)	Facility	Parameter	WER	Site-specific criteria (2)	EPA approval (4)
0301	Baker Slough and Sulfur River	01339	International Paper - Texarkana	aluminum	6.39	6,332 ug/l	04/29/09
0303	River Crest Reservoir	00945	TXU	copper	3.4	50.2 ug/l (3) 34.1 ug/l	5/7/03
0404	unnamed tributary to Hart Creek and Hart Creek	10575	City of Mount Pleasant	copper	7.16	55.22 ug/l 40.07 ug/l	11/20/06
0409	Sugar Creek	10457	City of Gilmer	copper	6.83	37.92 ug/l 28.26 ug/l	10/14/03
0510	Mill Creek	10187	City of Henderson	copper	4.95	32.1 ug/l 23.6 ug/l	7/3/02
0511	unnamed canal to Cow Bayou tidal	00670	Honeywell, Inc.	copper	2.39	38.88 ug/l (5) 10.44 ug/l	11/24/03
0511	Cow Bayou tidal	00454	Firestone Polymers, Inc.	copper	2.54	41.24 ug/l (5) 11.08 ug/l	2/7/06
0603	Sandy Creek	10197	City of Jasper	copper	4.67	28.81 ug/l 21.34 ug/l	2/1/05
0604	unnamed trib. to Bear Creek	01902	International Paper – Corrigan	aluminum	5.58	5,527 ug/l	9/28/05
0604	Buck Creek	01268	Lufkin Industries	copper	7.94	55.87ug/l 40.74 ug/l	10/14/03
0615	Paper Mill Creek/ Angelina River	00368	Abitibi Consolidated	aluminum	8.39	8314 ug/l	5/7/03
0805	Forney Branch	01251	TXU	copper	3.9	94.7 ug/l 61.5 ug/l	5/7/03
0806	West Fork Trinity River	00555	TXU	copper	2.5	63.2 ug/l 40.9 ug/l	5/7/03
1008	Panther Branch above Lake Woodlands	12597	San Jacinto River Authority - Woodlands	copper	6.45	38.2 ug/l 28.3 ug/l	6/25/03
1009	Harris County Flood Control Ditch No K159-00-00 Cypress Creek	13296	Harris County MUD 358	copper	8.47	50.82 ug/l 37.61 ug/l	11/12/08
1014	Horsepen Creek	12726	Harris County MUD 155	copper	4.65	38.73 ug/l 27.80 ug/l	6/25/08

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1209	Gibbons Creek Reservoir	02120	Texas Municipal Power Agency	aluminum	6.81	6,750 ug/l	11/26/2008
1701	Victoria Barge Canal	03943	Air Liquide America, Inc.	copper	2.55	41.56 ug/l (5) 11.16 ug/l	11/23/05
1701	Victoria Barge Canal	00447	Dow Chemical Company - Seadrift Plant	copper	1.81	29.38 ug/l (5) 7.89 ug/l	8/31/06
2431	Moses Bayou	01263	ISP Technologies	copper	1.88	30.64 ug/l (5) 8.23 ug/l	1/13/05
2481	Kinney Bayou tidal and Jewel Fulton Canal tidal	10422	City of Ingleside	zinc	1.14	111.7 ug/l (5) 101.5 ug/l	9/19/06
2485	La Volla Creek/Oso Creek	10401	City of Corpus Chrisit - Greenwood	copper	2.07	27.95 ug/l 7.45 ug/l	5/16/07
2494	Brownsville Ship Channel	10350	Laguna Madre Water District's Port Isabel WWTP	copper	2.52	41 ug/l (5) 11 ug/l	4/28/06

- 1) TPDES - Texas Pollutant Discharge Elimination System
- 2) Appendix E of the *Texas Surface Water Quality Standards* (TX WQS) includes site-specific criteria which have been developed by one or more regulated facilities. These criteria are to be used in place of the aquatic life criteria in Table 1 of the TX WQS. Unless otherwise specified, the WER applies to the portion of the segment near the facility which conducted the study. Section 307.6(c)(9) of the TX WQS allows the use of site-specific criteria based on a WER prior to adoption in Appendix E of the TX WQS. At the time of the next WQS revision, TCEQ will add the criteria in the above table to Appendix E and they will be deleted from this table. Please note that these site-specific values may change based on the hardness value used for hardness-dependent criteria (cadmium, chromium-trivalent, copper, lead, nickel, zinc).
- 3) Site-specific acute and chronic criteria apply to entire water body.
- 4) EPA reviews WERs and consults under the Endangered Species Act prior to approval of site-specific aquatic life criteria. The approval date in the table may either be the date of concurrence by the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service or an approval letter from EPA.
- 5) The acute and chronic site-specific criteria in the above table may be calculated with the 1997 TX WQS. EPA approved the saltwater aquatic life criteria in Table 1 of the 2000 TX WQS in December 2006. The 2000 TX WQS must be used to calculate site-specific criteria when these TPDES permits are renewed.