

Figure: 30 TAC §307.10(6)

**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 below<sup>1</sup>.

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 µg/L, then the criterion is set at the minimum default criterion of 5.00 µg/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 No.	Reservoir Name	Site ID	Chlorophyll <i>a</i> 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

Segment No.	Reservoir Name	Site ID	Chlorophyll <i>a</i> Criteria (µg/L)
1231	Lake Graham	11979	6.07
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 Lake)	12476	7.56
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.