DRAFT Threshold (T) and Criteria (C) Value Determination, from Table 1. of Guidance Advisory Workgroup Handout #1

Attainment of Numeric Criteria: Reservoirs with Chl-a criteria APPROVED by EPA		
Parameter	**Source**	**Notes**
Secchi Depth[T]	Rule Project no. 2007-002-307-PR	Calculated from historical sampling data, set at the lower parametric prediction interval, 90% CI
Dissolved Oxygen [C]	2014 Surface Water Quality Standards	Impairments or Concerns identified in the Integrated Report (from any assessment unit in reservoir)
Total Nitrogen[T]	University of Arkansas 2013 Report	Determined 0.58 mg/L of TN to be the level at which statistically significant changes in Secchi depth and chl-a occur
Total Phosphorus[T]	Rule Project no. 2007-002-307-PR	Calculated from historical sampling data, set at the upper parametric prediction interval, 90% CI
Chl-a[C]	2014 Surface Water Quality Standards	Appendix F

Attainment of Narrative Criteria: Reservoirs with Chl-a Criteria DISAPPROVED by EPA or no criteria adopted		
Parameter	**Source**	**Notes**
Secchi Depth[T]	Rule Project No. 2007-002-307-PR	Calculated from historical sampling data, set at the lower parametric prediction interval, 90% CI
Dissolved Oxygen[C]	2014 Surface Water Quality Standards	Impairments or Concerns identified in the Integrated Report (from any assessment unit in reservoir)
Total Nitrogen[T]	University of Arkansas 2013 Report	Determined 0.58 mg/L of TN to be the level at which statistically significant changes in Secchi depth occur
Total Phosphorus[T]	Rule Project No. 2007-002-307-PR	Calculated from historical sampling data, set at the upper parametric prediction interval, 90% CI
Chl-a[T]	2010 Surface Water Quality Standards (if >30, 30 ug/L used)	Calculated from historical sampling data, set at the upper parametric prediction interval, 95% CI

Attainment of Numeric Criteria: Reservoirs with APPROVED Chl-a Criteria

DRAFT Thresholds and EPA-Approved Numeric Chl-a Criteria for use in Reservoir Nutrient Assessment

Reservoir Name	Station	Segment #	Chl-a (ug/L) Criteria (>)	TN (mg/L) Threshold (>)	TP (mg/L) Threshold(>)	Secchi (m) Threshold (<)
Lake Crook	10137	208	7.38	0.58	0.2	0.19
Pat Mayse Lake	10138	209	12.4	0.58	0.04	1.12
Lake Kickapoo	10143	213	6.13	0.58	0.09	0.28
Lake Kemp	10159	217	8.83	0.58	0.03	1.08
Greenbelt Lake	10173	223	5	0.58	0.03	1.73
Lake Cypress Springs	10312	405	17.54	0.58	0.03	1.19
Lake Cherokee	10445	510	8.25	0.58	0.02	1.21
B.A. Steinhagen Lake	10582	603	11.67	0.58	0.08	0.37
Sam Rayburn Reservoir	14906	610	6.22	0.58	0.03	1.82
Lake Tyler	10637	613	13.38	0.58	0.03	1.06
Lake Tyler East	10638	613	10.88	0.58	0.03	1.06
Lake Jacksonville	10639	614	5.6	0.58	0.03	1.34
Bridgeport Reservoir	10970	811	5.32	0.58	0.06	1.01
Houston County Lake	10973	813	11.1	0.58	0.03	1.27
Lake Waxahachie	10980	816	19.77	0.58	0.03	0.63
Navarro Mills Lake	10981	817	15.07	0.58	0.08	0.37
Possum Kingdom Lake	11865	1207	10.74	0.58	0.05	2.22
Stillhouse Hollow Lake	11894	1216	5	0.58	0.03	2.84
Belton Lake	11921	1220	6.38	0.58	0.03	1.81
Lake Pat Cleburne	11974	1228	19.04	0.58	0.08	0.45
Lake Graham	11979	1231	6.07	0.58	0.05	0.61
Hubbard Creek Reservoir	12002	1233	5.61	0.58	0.04	1.16
Lake Cisco	12005	1234	5	0.58	0.02	1.33
Lake Stamford	12006	1235	16.85	0.58	0.07	0.42
White River Lake	12027	1240	13.85	0.58	0.06	0.42
Lake Georgetown	12111	1249	5	0.58	0.04	1.86
Lake Austin	12294	1403	5	0.58	0.03	1.82
Lake Travis	12302	1404	5	0.58	0.03	3.13
Marble Falls Lake	12319	1405	10.48	0.58	0.03	1.24
Lake Lyndon B. Johnson	12324	1406	10.29	0.58	0.03	1.23
Lake Buchanan	12344	1408	9.82	0.58	0.03	1.64
Lake Coleman	12398	1419	6.07	0.58	0.02	1.08
Lake Nasworthy	12418	1422	16.91	0.58	0.05	0.46
Oak Creek Reservoir	12180	1426	6.93	0.58	0.03	0.59
Lady Bird Lake	12476	1429	7.56	0.58	0.04	1.69
O.H. Ivie Reservoir	12511	1433	5.77	0.58	0.03	1.74
Canyon Lake	12597	1805	5	0.58	0.03	2.17
Medina Lake	12826	1904	5	0.58	0.01	2.49
Choke Canyon Reservoir	13019	2116	12.05	0.58	0.05	0.99

Attainment of Narrative Criteria: Reservoirs with DISAPPROVED Chl-a Criteria
DRAFT Thresholds a for use in Reservoir Nutrient Assessment

Reservoir Name	Station	Segment #	Chl-a (ug/L) Threshold (>)	TN (mg/L) Threshold (>)	TP (mg/L) Threshold (>)	Secchi (m) Threshold (<)
Palo Duro Reservoir	10005	100	19.02	0.58	0.24	0.3
Lake Arrowhead	10142	212	9.93	0.58	0.16	0.55
Lake Tanglewood	10192	229	30	0.58	1.23	0.57
Wright Patman Lake	10213	302	18.74	0.58	0.11	0.52
Lake Tawakoni	10434	507	30	0.58	0.05	0.89
Murvaul Lake	10444	509	30	0.58	0.07	0.55
Lake Fork Reservoir	10458	512	13.1	0.58	0.04	1.46
Lake Palestine	16159	605	24.29	0.58	0.03	0.82
Lake Livingston	10899	803	20.64	0.58	0.16	0.67
Lake Worth	10942	807	30	0.58	0.09	0.65
Eagle Mountain Reservoir	10944 , 10945	809	22.94	0.58	0.07	0.8
Bardwell Reservoir	10979	815	20.44	0.58	0.05	0.56
Cedar Creek Reservoir	10982, 16749	818	27.81	0.58	0.07	0.8
Lewisville Lake	11027	823	16.39	0.58	0.06	0.6
Grapevine Lake	11035, 16113, 17827	826	10.48	0.58	0.1	0.84
White Rock Lake	11038	827	29.73	0.58	0.1	0.4
Benbrook Lake	15151, 11046	830	24.42	0.58	0.07	0.75
Richland-Chambers Reservoir	15168	836	13.88	0.58	0.04	1.13
Lake Conroe	11342	1012	21.72	0.58	0.05	0.82
Whitney Lake	11851	1203	16.18	0.58	0.03	1.32
Lake Granbury	11860	1205	20.15	0.58	0.07	0.99
Millers Creek Reservoir	11679	1208	14.02	0.58	0.08	0.24
Somerville Lake	11881	1212	30	0.58	0.09	0.63
Proctor Lake	11935	1222	25.22	0.58	0.1	0.52
Waco Lake	11942	1225	21.07	0.58	0.09	0.76
Lake Sweetwater	12021	1237	11.81	0.58	0.74	0.74
Granger Lake	12095	1247	10.43	0.58	0.06	0.41
Lake Limestone	12123	1252	17.4	0.58	0.08	0.7
Aquilla Reservoir	12127	1254	12.48	0.58	0.04	0.58
Lake Colorado City	12167	1412	13.94	0.58	0.05	0.67
Brady Creek Reservoir	12179	1416	21.97	0.58	0.03	0.59
Twin Buttes Reservoir	12422	1423	12.7	0.58	0.09	0.55
O.C. Fisher Lake	12429	1425	30	0.58	0.14	0.28
Lake Corpus Christi	12967	2103	15.01	0.58	0.18	0.41
Red Bluff Reservoir	13267	2312	21.96	0.58	0.04	0.78
Cox Lake	12514	2454	11.9	0.58	0.29	0.12