

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

### General Information

*This report includes the data used to evaluate excessive algal growth as part of the line-of-evidence framework established to evaluate nutrients in Texas reservoirs.*

### Explanation of Column Headings

**SegID and Name:** *The unique identifier (SegID) and name of the water body. Items may be one of three types of numbers for SegID. The first type is a classified segment number (4 digits, e.g., 0218), as defined in the Texas Surface Water Quality Standards (TSWQS). The second type is an unclassified water body (e.g., 0218A), not defined in the Standards and associated with a classified water body because it is in the same watershed. The third type includes special Segments for Oyster Water Use (e.g., 2421OW) and Beach Watch Use (e.g., 2481CB) special areas. The segment name follows SegID.*

**Nutrient Reservoir Criteria:** *Identifies whether the reservoir includes chlorophyll-a criteria which were approved (Numeric) or disapproved (Narrative) by EPA.*

**Station(s) used in the evaluation:** *Stations from which the chlorophyll-a, Total Nitrogen, Total Phosphorus and Secchi data were collected. Stations from which dissolved oxygen data were collected for assessment of the aquatic life use can be found in the "Waterbodies Evaluated" report.*

**Parameter:** *Specific water quality parameter of the dissolved oxygen assessment used in the line-of-evidence framework to evaluate excessive algal growth in reservoir*

**Criteria/Threshold:** *Numeric value derived to evaluate excessive algal growth in reservoirs. See Table 3 and 4, Appendix F of the 2018 Guidance for Assessing and Reporting Surface Water Quality in Texas.*

**Samples Assessed:** *Number of samples in the dataset used to develop the median parameter value used to compare to the Criteria/Threshold.*

**Median:** *Median value of the samples used to compare to the Criteria/Threshold within the line-of-evidence framework.*

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:0199A- Palo Duro Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	20	61.68	10005
Chlorophyll-a	19.02	14	36.05	
Secchi Depth	0.3	15	0.2	
Total Nitrogen	0.8	12	1.575	
Total Phosphorus	0.24	13	0.25	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0208 - Lake Crook Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	0	NA	10137
Chlorophyll-a	7.38	26	17.15	
Secchi Depth	0.19	28	0.3	
Total Nitrogen	0.8	20	1.0246	
Total Phosphorus	0.2	27	0.13	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0209 - Pat Mayse Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	0	NA	10138, 16343
Chlorophyll-a	12.4	26	14.2	
Secchi Depth	1.12	27	1.1	
Total Nitrogen	0.8	23	0.78	
Total Phosphorus	0.04	25	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:0212 - Lake Arrowhead Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	36	53.48	10142
Chlorophyll-a	9.93	25	10.4	
Secchi Depth	0.55	25	0.5	
Total Nitrogen	0.8	16	0.77	
Total Phosphorus	0.16	24	0.175	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0213 - Lake Kickapoo Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	0	NA	10143
Chlorophyll-a	6.13	24	5.56	
Secchi Depth	0.28	25	0.35	
Total Nitrogen	0.8	16	0.4633	
Total Phosphorus	0.09	24	0.0582	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0217 - Lake Kemp Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	33	51.72	10159
Chlorophyll-a	8.83	24	8.33	
Secchi Depth	1.08	25	1.1	
Total Nitrogen	0.8	16	0.578	
Total Phosphorus	0.03	24	0.026	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:0223 - Greenbelt Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	31	44.86	10173
Chlorophyll-a	5	13	6.91	
Secchi Depth	1.73	15	0.9	
Total Nitrogen	0.8	16	0.81	
Total Phosphorus	0.03	15	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0229A- Lake Tanglewood Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	30	69.7	10192
Chlorophyll-a	30	20	61.5	
Secchi Depth	0.57	22	0.8	
Total Nitrogen	0.8	19	11.08	
Total Phosphorus	1.23	18	1	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0302 - Wright Patman Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	NA	NA	10213, 14907
Chlorophyll-a	18.74	27	26.2	
Secchi Depth	0.52	54	0.57	
Total Nitrogen	0.8	23	0.9	
Total Phosphorus	0.11	24	0.0939	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:0405 - Lake Cypress Springs Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	36	57.26	10312
Chlorophyll-a	17.54	25	27	
Secchi Depth	1.19	27	1.1	
Total Nitrogen	0.8	22	0.8795	
Total Phosphorus	0.03	25	0.0311	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0507 - Lake Tawakoni Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	104	64.42	10434
Chlorophyll-a	30	71	28	
Secchi Depth	0.89	72	0.87	
Total Nitrogen	0.8	69	1.005	
Total Phosphorus	0.05	68	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0509 - Murvaul Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	36	67.02	10444
Chlorophyll-a	30	24	31.05	
Secchi Depth	0.55	28	0.7	
Total Nitrogen	0.8	24	0.8965	
Total Phosphorus	0.07	26	0.0559	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:0510 - Lake Cherokee Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	0	NA	10445, 15514
Chlorophyll-a	8.25	23	10	
Secchi Depth	1.21	42	0.895	
Total Nitrogen	0.8	0	0	
Total Phosphorus	0.02	0	0	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:0512 - Lake Fork Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	107	54.48	10458
Chlorophyll-a	13.1	74	12	
Secchi Depth	1.46	76	1.1	
Total Nitrogen	0.8	70	0.8575	
Total Phosphorus	0.04	71	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0603 - B.A. Steinhagen Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	36	52.5	10582
Chlorophyll-a	11.67	24	8.9	
Secchi Depth	0.37	25	0.35	
Total Nitrogen	0.8	22	0.575	
Total Phosphorus	0.08	22	0.06	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:0605 - Lake Palestine Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	38	63.46	16159
Chlorophyll-a	24.29	27	24.4	
Secchi Depth	0.82	28	1	
Total Nitrogen	0.8	24	0.9045	
Total Phosphorus	0.03	25	0.0361	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0610 - Sam Rayburn Reservoir Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	34	48.66	14906
Chlorophyll-a	6.22	44	7.485	
Secchi Depth	1.82	52	1.1	
Total Nitrogen	0.8	45	0.484	
Total Phosphorus	0.03	44	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0613 - Lake Tyler (0613_01 and 0613_02) Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	31	54.94	10637
Chlorophyll-a	13.38	22	11.95	
Secchi Depth	1.06	26	1.6	
Total Nitrogen	0.8	22	0.5165	
Total Phosphorus	0.03	23	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:0613.- Lake Tyler East (0613_03 and 0613_04) Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	31	53.34	10638
Chlorophyll-a	10.88	22	10.9	
Secchi Depth	1.06	26	1.5	
Total Nitrogen	0.8	19	0.57	
Total Phosphorus	0.03	23	0.02	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0614 - Lake Jacksonville Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	29	45.34	10639
Chlorophyll-a	5.6	19	2.6	
Secchi Depth	1.34	27	2.7	
Total Nitrogen	0.8	22	0.37	
Total Phosphorus	0.03	24	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0803 - Lake Livingston Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	35	57.72	10899
Chlorophyll-a	20.64	24	14.5	
Secchi Depth	0.67	24	0.395	
Total Nitrogen	0.8	18	0.91	
Total Phosphorus	0.16	24	0.085	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				



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Seg ID:0807 - Lake Worth Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	NA	NA	10942
Chlorophyll-a	30	32	10.95	
Secchi Depth	0.65	32	0.61	
Total Nitrogen	0.8	30	1.0595	
Total Phosphorus	0.09	32	0.049	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0809 - Eagle Mountain Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	NA	NA	10944, 10945
Chlorophyll-a	22.94	30	9.895	
Secchi Depth	0.8	32	0.84	
Total Nitrogen	0.8	31	0.87	
Total Phosphorus	0.07	31	0.047	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:0811 - Bridgeport Reservoir Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	0	NA	10970
Chlorophyll-a	5.32	30	5.34	
Secchi Depth	1.01	31	0.86	
Total Nitrogen	0.8	31	0.623	
Total Phosphorus	0.06	31	0.025	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

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Seg ID:0813 - Houston County Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	34	54.14	10973
Chlorophyll-a	11.1	22	18.6	
Secchi Depth	1.27	27	1.1	
Total Nitrogen	0.8	20	0.722	
Total Phosphorus	0.03	23	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0815 - Bardwell Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	35	58.82	10979
Chlorophyll-a	20.44	27	20	
Secchi Depth	0.56	27	0.35	
Total Nitrogen	0.8	1	0.93	
Total Phosphorus	0.05	27	0.06	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0816 - Lake Waxahachie Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	36	58.22	10980
Chlorophyll-a	19.77	28	12	
Secchi Depth	0.63	28	0.55	
Total Nitrogen	0.8	1	1.15	
Total Phosphorus	0.03	28	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

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Seg ID:0817 - Navarro Mills Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	33	53.98	10981
Chlorophyll-a	15.07	23	13.4	
Secchi Depth	0.37	25	0.49	
Total Nitrogen	0.8	23	1	
Total Phosphorus	0.08	24	0.06	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0818 - Cedar Creek Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	NA	NA	10982, 16748
Chlorophyll-a	27.81	64	8.855	
Secchi Depth	0.8	60	0.91	
Total Nitrogen	0.8	62	0.90625	
Total Phosphorus	0.07	62	0.035	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:0823 - Lewisville Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	NA	NA	11027, 17830
Chlorophyll-a	16.39	34	9.5	
Secchi Depth	0.6	0	0	
Total Nitrogen	0.8	9	0.7922	
Total Phosphorus	0.06	34	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

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Seg ID:0826 - Grapevine Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	NA	NA	11035, 16113
Chlorophyll-a	10.48	25	13.5	
Secchi Depth	0.84	27	0.92	
Total Nitrogen	0.8	21	0.764	
Total Phosphorus	0.1	24	0.03025	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:0827 - White Rock Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	35	64.46	11038
Chlorophyll-a	29.73	25	33.3	
Secchi Depth	0.4	28	0.6	
Total Nitrogen	0.8	22	1.0895	
Total Phosphorus	0.1	26	0.06825	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:0830 - Benbrook Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	NA	NA	11046, 15151
Chlorophyll-a	24.42	32	8.85	
Secchi Depth	0.75	32	0.8	
Total Nitrogen	0.8	32	0.78625	
Total Phosphorus	0.07	30	0.0345	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

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Seg ID:0836 - Richland-Chambers Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	NA	NA	15168
Chlorophyll-a	13.88	31	5.4	
Secchi Depth	1.13	31	1	
Total Nitrogen	0.8	32	0.8485	
Total Phosphorus	0.04	31	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:1012 - Lake Conroe Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	37	58.82	11342
Chlorophyll-a	21.72	27	14	
Secchi Depth	0.82	83	0.9	
Total Nitrogen	0.8	4	0.74	
Total Phosphorus	0.05	83	0.06	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1203 - Whitney Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	31	57.42	11851
Chlorophyll-a	16.18	16	8.485	
Secchi Depth	1.32	25	1.6	
Total Nitrogen	0.8	15	0.727	
Total Phosphorus	0.03	17	0.02	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

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Seg ID:1205 - Lake Granbury Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	114	61.34	11860
Chlorophyll-a	20.15	78	17.75	
Secchi Depth	0.99	77	0.9	
Total Nitrogen	0.8	0	0	
Total Phosphorus	0.07	77	0.025	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:1207 - Possum Kingdom Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	115	54.1	11865
Chlorophyll-a	10.74	80	6.95	
Secchi Depth	2.22	80	2.1	
Total Nitrogen	0.8	0	0	
Total Phosphorus	0.05	78	0.025	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1212 - Somerville Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	37	54.68	11881
Chlorophyll-a	30	22	32	
Secchi Depth	0.63	22	0.7	
Total Nitrogen	0.8	20	1.025	
Total Phosphorus	0.09	22	0.07	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:1216 - Stillhouse Hollow Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	52	41.16	11894
Chlorophyll-a	5	26	1.5	
Secchi Depth	2.84	27	2.9	
Total Nitrogen	0.8	0	0	
Total Phosphorus	0.03	26	0.025	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1220 - Belton Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	38	45.8	11921
Chlorophyll-a	6.38	26	3.8	
Secchi Depth	1.81	27	1.9	
Total Nitrogen	0.8	0	0	
Total Phosphorus	0.03	26	0.025	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1222 - Proctor Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	19	64.58	11935
Chlorophyll-a	25.22	13	35.7	
Secchi Depth	0.52	14	0.48	
Total Nitrogen	0.8	0	0	
Total Phosphorus	0.1	13	0.09	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:1225 - Waco Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	37	58.36	11942
Chlorophyll-a	21.07	25	14.5	
Secchi Depth	0.76	25	0.79	
Total Nitrogen	0.8	23	0.73	
Total Phosphorus	0.09	22	0.0354	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1228 - Lake Pat Cleburne Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	37	59.96	11974
Chlorophyll-a	19.04	25	25.9	
Secchi Depth	0.45	28	0.7	
Total Nitrogen	0.8	26	0.831	
Total Phosphorus	0.08	27	0.05	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1231 - Lake Graham Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	22	49.64	11979
Chlorophyll-a	6.07	13	11.6	
Secchi Depth	0.61	13	0.54	
Total Nitrogen	0.8	12	0.605	
Total Phosphorus	0.05	13	0.04	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				



## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:1233 - Hubbard Creek Reservoir Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	20	46.6	12002
Chlorophyll-a	5.61	12	4.645	
Secchi Depth	1.16	15	1.1	
Total Nitrogen	0.8	14	0.5175	
Total Phosphorus	0.04	15	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1234 - Lake Cisco Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	19	44.6	12005
Chlorophyll-a	5	14	3.96	
Secchi Depth	1.33	16	0.65	
Total Nitrogen	0.8	13	0.523	
Total Phosphorus	0.02	16	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1235 - Lake Stamford Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	25	56.46	12006
Chlorophyll-a	16.85	14	13.25	
Secchi Depth	0.42	15	0.5	
Total Nitrogen	0.8	14	0.89	
Total Phosphorus	0.07	15	0.06	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:1237 - Lake Sweetwater Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	NA	NA	12021
Chlorophyll-a	11.81	18	14.9	
Secchi Depth	0.74	20	0.5	
Total Nitrogen	0.8	19	1.74	
Total Phosphorus	0.74	19	0.04	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1240 - White River Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	35	56.3	12027
Chlorophyll-a	13.85	21	10.5	
Secchi Depth	0.42	25	0.22	
Total Nitrogen	0.8	23	0.8	
Total Phosphorus	0.06	23	0.06	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1247 - Granger Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	52	55.08	12095
Chlorophyll-a	10.43	26	13.2	
Secchi Depth	0.41	26	0.44	
Total Nitrogen	0.8	0	0	
Total Phosphorus	0.06	26	0.025	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

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Seg ID:1249 - Lake Georgetown Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	49	44.46	12111
Chlorophyll-a	5	26	3.2	
Secchi Depth	1.86	26	1.7	
Total Nitrogen	0.8	0	0	
Total Phosphorus	0.04	26	0.025	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1252 - Lake Limestone Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	70	59.16	12123
Chlorophyll-a	17.4	58	20.13	
Secchi Depth	0.7	61	0.75	
Total Nitrogen	0.8	0	0	
Total Phosphorus	0.08	60	0.05	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:1254 - Aquilla Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	36	54.68	12127
Chlorophyll-a	12.48	24	14.3	
Secchi Depth	0.58	25	0.52	
Total Nitrogen	0.8	22	1.0515	
Total Phosphorus	0.04	21	0.04	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

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Seg ID:1403 - Lake Austin Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	64	44.14	12294
Chlorophyll-a	5	46	4.7	
Secchi Depth	1.82	46	1.6	
Total Nitrogen	0.8	42	0.52	
Total Phosphorus	0.03	45	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1404 - Lake Travis Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	71	42	12302
Chlorophyll-a	5	53	2	
Secchi Depth	3.13	53	3.5	
Total Nitrogen	0.8	48	0.405	
Total Phosphorus	0.03	53	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:1405 - Marble Falls Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	68	52.56	12319
Chlorophyll-a	10.48	51	10.9	
Secchi Depth	1.24	51	1.4	
Total Nitrogen	0.8	50	0.625	
Total Phosphorus	0.03	51	0.02	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

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Seg ID:1406 - Lake Lyndon B. Johnson Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	69	52.72	12324
Chlorophyll-a	10.29	52	11.4	
Secchi Depth	1.23	52	1.5	
Total Nitrogen	0.8	49	0.6	
Total Phosphorus	0.03	52	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1408 - Lake Buchanan Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	71	52.08	12344
Chlorophyll-a	9.82	53	8.3	
Secchi Depth	1.64	53	1.6	
Total Nitrogen	0.8	46	0.62	
Total Phosphorus	0.03	53	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1416B- Brady Creek Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	24	59.24	12179
Chlorophyll-a	21.97	17	23.1	
Secchi Depth	0.59	17	0.92	
Total Nitrogen	0.8	17	1.77	
Total Phosphorus	0.03	17	0.05	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:1419 - Lake Coleman Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	20	46.7	12398
Chlorophyll-a	6.07	10	6.745	
Secchi Depth	1.08	12	1.2	
Total Nitrogen	0.8	10	0.646	
Total Phosphorus	0.02	12	0.02	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1422 - Lake Nasworthy Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	24	55.1	12418
Chlorophyll-a	16.91	16	14.7	
Secchi Depth	0.46	14	0.585	
Total Nitrogen	0.8	16	1.28	
Total Phosphorus	0.05	16	0.045	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1423 - Twin Buttes Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	23	60.4	12422
Chlorophyll-a	12.7	16	11.6	
Secchi Depth	0.55	15	0.95	
Total Nitrogen	0.8	16	0.8025	
Total Phosphorus	0.09	16	0.03	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

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Seg ID:1425 - O.C. Fisher Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	17	74	12429
Chlorophyll-a	30	14	17.95	
Secchi Depth	0.28	13	0.88	
Total Nitrogen	0.8	13	1.018	
Total Phosphorus	0.14	14	0.06	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1426A- Oak Creek Reservoir Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	23	53.18	12180
Chlorophyll-a	6.93	17	4.9	
Secchi Depth	0.59	15	1.7	
Total Nitrogen	0.8	15	0.77	
Total Phosphorus	0.03	16	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1429 - Lady Bird Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	48	51	12476
Chlorophyll-a	7.56	37	7.9	
Secchi Depth	1.69	36	1.6	
Total Nitrogen	0.8	35	0.69	
Total Phosphorus	0.04	34	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

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Seg ID:1433 - O.H. Ivie Reservoir Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	18	47.2	12511
Chlorophyll-a	5.77	13	5.1	
Secchi Depth	1.74	13	1.6	
Total Nitrogen	0.8	12	0.86	
Total Phosphorus	0.03	13	0.02	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:1805 - Canyon Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	34	43.4	12597
Chlorophyll-a	5	22	0.995	
Secchi Depth	2.17	21	4	
Total Nitrogen	0.8	21	0.35	
Total Phosphorus	0.03	22	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:1904 - Medina Lake Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	0	NA	12825, 12826
Chlorophyll-a	5	10	2	
Secchi Depth	2.49	33	3.4	
Total Nitrogen	0.8	35	0.333	
Total Phosphorus	0.01	35	0.01	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				



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Seg ID:2103 - Lake Corpus Christi Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	40	57.18	12967
Chlorophyll-a	15.01	28	12.5	
Secchi Depth	0.41	29	0.31	
Total Nitrogen	0.8	24	0.99275	
Total Phosphorus	0.18	28	0.2385	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

Seg ID:2116 - Choke Canyon Reservoir Nutrient Reservoir Criteria - Numeric				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	0	NA	13019, 13020
Chlorophyll-a	12.05	31	18.1	
Secchi Depth	0.99	31	0.53	
Total Nitrogen	0.8	25	1.2	
Total Phosphorus	0.05	31	0.0721	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				

Seg ID:2312 - Red Bluff Reservoir Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	18	55.68	13267
Chlorophyll-a	21.96	13	15.8	
Secchi Depth	0.78	11	0.79	
Total Nitrogen	0.8	11	0.98	
Total Phosphorus	0.04	12	0.015	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? No				

## 2022 Texas Integrated Report - Supplemental Data For Reservoir Nutrient Assessment

Seg ID:2454A- Cox Lake Nutrient Reservoir Criteria - Narrative				
Parameter	Criteria Threshold	Samples Assessed	Median	Stations Used In Evaluation
10 Year Change in TSI	10	33	54.36	12514
Chlorophyll-a	11.9	21	7.73	
Secchi Depth	0.12	23	0.1	
Total Nitrogen	0.8	18	1.115	
Total Phosphorus	0.29	19	0.21	
Concerns or impairments for dissolved oxygen identified in any portion (assessment unit) of the reservoir? Yes				