Proposed Changes to Classified Water Bodies in Appendix A
TCEQ Staff DRAFT December 12, 2008

• **Recreational use**

- Change classified freshwater segments to a criterion of 206 *E. coli*/100 ml
- Houston Ship Channel (Segments 1006, 1007): add noncontact recreation use (but don't change the existing numerical bacteria criteria)
- Change indicator bacteria from E. coli to Enterococci due to high inland salinity

0204- Red River Above Lake Texoma
0205- Red River Below Pease River
0206- Red River Above Pease River
0207- Lower Prairie Dog Town Fork Red River
0217- Lake Kemp
0218- Wichita/North Fork Wichita River
0220- Upper Pease/North Fork Pease River
0226- South Fork Wichita River
0230- Pease River
1208- Brazos River Above Possum Kingdom Lake
1238- Salt Fork Brazos River
1241- Double Mountain Fork Brazos River
1412- Colorado River Below Lake J.B. Thomas
2311- Upper Pecos River
2312- Red Bluff Reservoir

• **New classified segment (0410- Black Cypress Bayou (Creek))**

Uses: PCR, High aquatic life use
Criteria: Cl & SO 50; TDS 200; DO 5.0, a site-specific multiple regression equation shall be used to determine 24-hr DO if ambient values fall below 5.0 mg/L from May-Oct.; pH 5.5-8.0; Indicator bacteria 206; Temperature 90°F

• **TDS, chloride, and sulfate criteria adjustments**

0507- Lake Tawakoni (increase based on new water transfers)
Current: Cl 50 SO 50 TDS 200 Draft: Cl 75 SO 75 TDS 400
0803- Lake Livingston
Current: SO 50 Draft: SO 70
0812- W. Fork Trinity River Above Bridgeport Reservoir
Current: Cl 100 SO 100 TDS 500 Draft: Cl 230 SO 260 TDS 990
0819- East Fork Trinity River
Current: Cl 100 SO 100 TDS 500 Draft: Cl 80 SO 85 TDS 530
0821- Lavon Lake (increase based on new water transfers)
Current: Cl 80 SO 60 TDS 400 Draft: Cl 100 SO 100 TDS 500
1206- Brazos River Below Possum Kingdom Lake
Current: Cl 1020 SO 500 TDS 2300 Draft: Cl 1036 SO 595 TDS 2325
1227- Nolan River (increase to address new source waters)
Current: Cl 75 SO 75 TDS 500 Draft: Cl 372 SO 320 TDS 1383
1238- Salt Fork Brazos River
Current: Cl 23000 SO 4000 TDS 40000 Draft: Cl 33670 SO 3990 TDS 62880
1239- White River
Current: Cl 100 SO 100 TDS 500 Draft: Cl 210 SO 110 TDS 870
1240- White River Lake
Current: Cl 150 SO 100 TDS 650 Draft: Cl 210 SO 110 TDS 870

1241- Double Mountain Fork Brazos River
Current: Cl 2500 Draft: Cl 3270
1411- E.V. Spence Reservoir
Current: Cl 950 SO 450 TDS 1500 Draft: Cl 480 SO 400 TDS 1790
1412- Colorado River Below Lake J.B. Thomas
Current: Cl 11000 SO 2500 TDS 20000 Draft: Cl 5960 SO 1870 TDS 11120
1413- Lake J.B. Thomas
Current: Cl 80 SO 110 TDS 500 Draft: Cl 180 SO 350 TDS 590
1421- Concho River
Current: Cl 775 SO 425 TDS 1600 Draft: Cl 700 SO 520 TDS 1790
1426- Colorado River Below E.V. Spence Reservoir
Current: Cl 610 SO 980 TDS 2000 Draft: Cl 1170 SO 1310 TDS 3360
1433- O.H. Ivie Reservoir
Current: No criteria Draft: Cl 470 SO 370 TDS 1690
2106- Nueces/Lower Frio River
Current: Cl 250 SO 250 TDS 500 Draft: Cl 370 SO 180 TDS 1080
2116- Choke Canyon Reservoir
Current: TDS 500 Draft: TDS 830
2307- Rio Grande Below Riverside Diversion Dam
Current: Cl 300 TDS 1500 Draft: Cl 820 TDS 2910

• **pH criteria in East Texas: increase allowable ranges to address natural conditions**

0306- Upper South Sulphur River Current: 6.5-8.0 Draft: 6.5-9.0
0307- Jim L. Chapman Lake (Cooper Lake) Current: 6.0-8.5 Draft: 6.5-9.0
0401- Caddo Lake Current: 6.0-8.5 Draft: 5.5-9.0
0402- Big Cypress Creek Below Lake O' the Pines Current: 6.0-8.5 Draft: 5.5-8.0
0406- Black Bayou Current: 6.0-8.5 Draft: 5.5-8.0
0407- James' Bayou Current: 6.0-8.5 Draft: 5.5-8.0
0608- Village Creek Current: 6.0-8.5 Draft: 5.5-8.0

• **New designated seagrass propagation use**

2424- West Bay
2433- Bastrop Bay/Oyster Lake
2434- Christmas Bay
2435- Drum Bay
2441- East Matagorda Bay
2451- Matagorda Bay/Powderhorn Lake
2452- Tres Palacios Bay/Turtle 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
2471- Aransas Bay
2472- Copano Bay/Port Bay/Mission Bay
2473- St. Charles Bay
2481- Corpus Christi Bay
2482- Nueces Bay
2483- Redfish Bay
2485- Oso Bay
2491- Laguna Bay
2492- Baffin Bay/Alazan Bay/Cayo del Grullo/Laguna Salada
2493- South Bay

• **Temperature: lower criteria to protect sensitive habitat & endangered species**

1811- Comal River Current: 90°F Draft: 78°F in upper reach (Landa Lake)
1814- Upper San Marcos River Current: 90°F Draft: 78°F in upper reach (Spring Lake)

• **Aquatic life use and dissolved oxygen criteria**

0406- Black Bayou Current: I; 4.0 Draft: H; 5.0*
0407- James Bayou Current: I; 4.0 Draft: H; 5.0*

*a site-specific multiple regression equation shall be used to determine 24-hr DO if ambient values fall below 5.0 mg/L from May-Oct.

0615- Angelina River/Sam Rayburn Reservoir Current: I; 4.0 Draft: H; 5.0

0812- West Fork Trinity River Above Bridgeport Reservoir Current: H; 5.0 Draft: I; 3.0

0833- Clear Fork Trinity River Above Lake Weatherford Current: H; 5.0 Draft: I; 4.0*

*24-hr average DO of 2.0 mg/L & no minimum DO applies from June-Sept.

• **Dissolved oxygen criteria: to less stringent criteria, but not lowering aquatic life uses**

0211- Little Wichita River Current: 5.0 Draft: 3.0/2.0

0409- Little Cypress Bayou (Creek) Current: 5.0 Draft: 5.0*

*a site-specific multiple regression equation shall be used to determine 24-hr DO if ambient values fall below 5.0 mg/L from May-Oct.

0831- Clear Fork Trinity River Below Lake Weatherford Current: 5.0 Draft: 5.0*

*24-hr average DO of 3.0 mg/L (2.0 mg/L minimum) applies from the confluence with Squaw Creek upstream to Weatherford Dam

1305- Caney Creek Above Tidal Current: 5.0 Draft: 4.0*

*24-hr average DO of 2.5 mg/L (2.0 mg/L minimum) applies from May-Oct. when stream flows are less than 5.0 cfs.

2485- Oso Bay & 2491-Laguna Madre Current: 5.0 Draft: 5.0*

* 24-hr average DO of 4.0 mg/L (no minimum) applies from June-Oct.

• **Critical low-flow for spring-fed segments**

5% or 0.1% probability value derived from a lognormal distribution for the period of record at specific USGS gaging station

0218- Wichita/North Fork Wichita River Draft: 5% probability value

1424- Middle Concho/South Concho Rivier Draft: 5% probability value

1430- Barton Creek Draft: 0.1% probability value

1808- Lower San Marcos River Draft: 5% probability value

1811- Comal River Draft: 0.1% probability value

1813- Upper Blanco River Draft: 5% probability value

1814- Upper San Marcos River Draft: 0.1% probability value

1817- North Fork Guadalupe River Draft: 5% probability value

1905- Medina River Above Medina Lake Draft: 5% probability value

2109- Leona River Draft: 5% probability value

2309- Devils River Draft: 0.1% probability value

2313- San Felipe Creek Draft: 0.1% probability value

• **PWS Removal**

Portion of 1245- Upper Oyster Creek below Dam #3

1603- Navidad River Tidal

2308- Rio Grande Below International Dam

• **Acute aquatic life criteria for zinc (assessment purposes only)**

2482- Nueces Bay (29 micrograms/L; approved zinc TMDL & Implementation Plan)

• **Recent Changes to Draft**

1008- Spring Creek

Based on additional information, DO will not be changed this revision.

1245- Upper Oyster Creek below Dam #3

Site-specific minimum DO criteria of 1.0 mg/L