May 2015 Flooding
May 2015 Flooding

- Wetter than average Spring
- Parts of Comal, Hays & Blanco Counties reported over 13” of rain between May 23rd and May 25th.
- Blanco River in Wimberley set record at 44.90 ft of gage height & ~175,000 cfs
- San Marcos River in Martindale over 45 ft of gage height.
Aquatic Vegetation Management on Hydro Lakes

- The Guadalupe-Blanco River Authority Received a TPWD grant to treat for invasive Water Hyacinth & Hydrilla on Lake Gonzales & Lake Wood in 2015.
- TPWD performed surveys in April 2015
- Found 65 Acres of Hydrilla & 54 Acres of Water Hyacinth on Lake Gonzales (H-4)
- Found 44 Acres of Water Hyacinth on Lake Wood (H-5)
- GBRA Hired Licensed operator to spray for 13 days in July of 2015.
Assessment Categories from Texas Integrated Report

- **Category 5** – water body does not meet applicable water quality standards for one or more designated uses
  - 5a – a TMDL or WPP is underway, scheduled or will be scheduled
  - 5b – a review of water quality standards will be conducted
  - 5c – Additional data and info will be collected
  - Example – Sandies Creek

- **Category 4** – Standard is not supported but does not require a Total Maximum Daily Load (TMDL)
  - 4a – TMDL has been completed and approved by EPA
  - 4b – Activities being conducted that will result in improved water quality
  - Example – Plum Creek
Assessment Categories from Texas Integrated Report

- Concerns
  - Exceeds screening concentration (CS)
    - Example: Plum Creek
      - Nitrate Nitrogen, Ammonia Nitrogen, Total Phosphorus
  - Has Use Concern (CN)
    - Example: Guadalupe River below San Marcos River
      - Bacteria Geometric Mean- 141 organisms/100 mL
Priority Water Bodies

- Victoria Barge Canal (Segment 1701)
  - Chlorophyll-a
  - Nitrate-Nitrogen
  - Listed with concerns in 2002
Guadalupe-Lavaca Coastal Basin

Legend
- Station ID
- Sub Watershed Boundary
- Roadways
- Cities
- Counties
- Rivers and Streams
Priority Water Bodies

- Guadalupe River Tidal (Segment 1801)
  - Nitrate-Nitrogen
  - Listed with concerns in 2002
Priority Water Bodies

- Guadalupe River Below San Antonio River (Segment 1802)
  - Nitrate Nitrogen
  - Listed with concerns in 2002
Priority Water Bodies

- Guadalupe River Below San Marcos River (Segment 1803)
  - 1803_04 – 25 mi from confluence with Coleto Creek upstream to confluence with Sandies Creek
  - Bacteria
  - Removed listing in 2014
- 1803_01 – Lower 25 Miles
  - Nitrate Nitrogen
  - Listed as Concern in 2014
Priority Water Bodies

- Elm Creek (Segment No. 1803A)
  - Depressed Dissolved Oxygen listed in category 5b in 1999;
  - Chlorophyll-a listed as a concern
Priority Water Bodies

- Sandies Creek (Segment 1803A)
  - Depressed Dissolved Oxygen, Bacteria & Fish & Macrōinvertebrates Communities
  - Listed in Category 5b in 1999
  - Chlorophyll-a and Impaired Biological Habitat listed as concerns
Priority Water Bodies

- Peach Creek (Segment No. 1803C)
  - Depressed Dissolved Oxygen & Bacteria listed in categories 5b and 5c in 2002.
  - Chlorophyll-a & Total Phosphorus listed as concerns
  - Denton Creek (1803F) & Sandy Fork (1803G) removed from list in 2014.
Priority Water Bodies

- Geronimo Creek (Segment No. 1804A)
  - Bacteria impairment listed in 2006 under category 5c
  - Nitrate Nitrogen listed as a concern
  - Baer Creek (1804D) listed as concern for Bacteria in 2014
Canyon Lake (Segment 1805)
  - Mercury in Edible Fish Tissue listed in 2006 under category 5c
  - Ammonia Nitrogen listed as a concern in 2014 at 1805_01 – Cove near Jacob’s Creek
Priority Water Bodies

- Guadalupe River Above Canyon Reservoir (Segment 1806)
  - Bacteria at 1806_06 & 1806_08 Portions of the segment from confluence with Third Creek to confluence of Town Creek; Honey Creek to confluence of Joshua Creek - Kerr Co. Bacteria was listed in 1999 and later moved to category 4a and Removed in 2014.
  - Impaired Biological Habitat listed as a concern in 2014.
Priority Water Bodies

- Quinlan Creek (Segment 1806D) & Town Creek (Segment 1806E)
  - Listed for Bacteria in category 5a in 2010
  - Listed as a concern for Dissolved Oxygen
Priority Water Bodies

- Plum Creek (Segment 1810)
  - Listed for Bacteria in 2004 then moved to category 4b.
  - Listed for Depressed DO, Nitrate-Nitrogen, Total Phosphorus and Impaired Biological Habitat Concerns
  - Town Branch (1810) tributary has concerns for Bacteria, Do and Nitrate-Nitrogen
Comal River (Segment 1811) and Dry Comal Creek (Segment 1811A)
- The Comal River is currently not listed but bacteria has been increasing
- The Dry Comal Creek was listed for bacteria under category 5c in 2010
Priority Water Bodies

- Upper Blanco River (Segment 1813)
  - Listed for Depressed DO in 2006 but removed from list in 2014
Priority Water Bodies

- Cypress Creek (Segment 1815)
- Listed as a concern in 2010 for Depressed Dissolved Oxygen and Impaired Biological Habitat
- Dissolved Oxygen may be moved to 5c in 2016
Priority Water Bodies

• South Fork of Guadalupe River (Segment 1818)
  ○ Listed as a concern for Depressed Dissolved Oxygen in 2014
Questions?

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