A PRELIMINARY EVALUATION OF TRINITY RIVER SEDIMENT AND NUTRIENT LOADS INTO GALVESTON BAY, TEXAS, DURING TWO PERIODS OF HIGH FLOW

Michael T. Lee

U.S. Department of the Interior
U.S. Geological Survey
- Physical Water Properties
  - Water Temperature, pH, Specific Conductance,
  - Dissolved Oxygen Concentration, Turbidity

- Nutrients – Total and Dissolved Components
  - Ammonia, Nitrite, Nitrite+Nitrate,
  - Orthophosphate

- Sediment - Suspended Sediment Concentration
  and Sand/Fine Break
The graph shows a strong positive correlation between suspended-sediment concentration in milligrams per liter and turbidity in FNU. The correlation coefficient, $r^2$, is 0.9298, indicating a high level of agreement between the variables described. The data points are closely aligned with the trend line, suggesting a reliable measurement of the relationship between these two environmental indicators.
Ranges of percentages of filtered component concentrations in total nutrient constituents

<table>
<thead>
<tr>
<th>Constituent</th>
<th>April 20–23, 2009</th>
<th>September 22–November 3, 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtered ammonia (NH₃)</td>
<td>&lt;LRL – 8.9%</td>
<td>&lt;LRL – 7.6%</td>
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<tr>
<td>Filtered nitrite (NO₂)</td>
<td>0.5% – 1.5%</td>
<td>&lt;LRL – 3.3%</td>
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<tr>
<td>Filtered nitrite + nitrate (NO₂ + NO₃)</td>
<td>11.0% – 13.8%</td>
<td>&lt;LRL – 37.8%</td>
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<tr>
<td>Orthophosphate (ο-PO₄)</td>
<td>&lt;LRL – 6.6%</td>
<td>11.4% – 24.8%</td>
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Contact Information

Michael T. Lee, mtle@usgs.gov
USGS Texas Water Science Center
Gulf Coast Program Office
19241 David Memorial Drive, Suite 180
Conroe, TX, 77385