Real-time Continuous Monitoring in the Susquehanna River Basin

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ACWA Annual Meeting – August 2016
Real-Time Continuous Monitoring

- Conductance
- Temperature
- pH
- Dissolved oxygen
- Turbidity
- Depth
- UVAS
- TOC
Data Challenges

- Data volume
- Suspect data
- Correcting for equipment fouling and drift
Supplemental Sampling

- Stream flows/levels
- Lab water chemistry
- Aquatic Insects
- Habitat
- Fish

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Parameter</th>
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<tbody>
<tr>
<td>Acidity</td>
<td>Chloride</td>
</tr>
<tr>
<td>Alkalinity</td>
<td>Bromide</td>
</tr>
<tr>
<td>Carbonate Alkalinity</td>
<td>Carbon Dioxide</td>
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<tr>
<td>Bicarbonate Alkalinity</td>
<td>Total Dissolved Solids</td>
</tr>
<tr>
<td>Barium</td>
<td>Total Organic Carbon</td>
</tr>
<tr>
<td>Aluminum</td>
<td>Sulfate</td>
</tr>
<tr>
<td>Calcium</td>
<td>pH</td>
</tr>
<tr>
<td>Magnesium</td>
<td>Specific Conductance</td>
</tr>
<tr>
<td>Sodium</td>
<td>Nitrate</td>
</tr>
<tr>
<td>Potassium</td>
<td>Phosphorus</td>
</tr>
<tr>
<td>Strontium</td>
<td>Gross Alpha</td>
</tr>
<tr>
<td>Lithium</td>
<td>Gross Beta</td>
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</tbody>
</table>
Real-Time Data Access on the Web

www.srbc.net/programs/remotenetwork.htm

Remote Water Quality Monitoring Network
Susquehanna River Basin - Monitoring Station Map

Legend - Scale Dependent
- Monitoring Stations
- Watersheds
  - Monitored Drainage Area

Zoom to Station
- Apalachin Cr. - Apalachin, NY
- Baldwin Cr. - Lowman, NY
- Blockhouse Cr. - English Center, PA
- Bowman Cr. - Bowman Creek, PA

Zoom to State or County
- State: Select State
- County: Select County

Susquehanna River Basin Commission

www.srbc.net
Data Use/Applications

- Drinking Water Protection
- Water Quality Tracking
- Sustainable Water Use
- Climate Change
- Habitat Alteration
- Better Science and Partnerships
- Public Outreach and Education