

UNRBA  
Monitoring Program  
PFC Meeting  
February 2016



# Project Update





## FY 2016 Routine Monitoring

- Proceeding Smoothly
  - 18 Lake Loading stations
  - 20 Jurisdictional Boundary stations
  - 12 In-Lake stations (DWR sampling)
  - **Monitoring data through November 2015 posted to the online database**
    - Accessible through UNRBA website



## Routine Monitoring - Data Collection Status

Date	Sample Collection	Sample Analysis	Data Review	Posted to Database
Aug-2014	✓	✓	✓	✓
Sep-2014	✓	✓	✓	✓
Oct-2014	✓	✓	✓	✓
Nov-2014	✓	✓	✓	✓
Dec-2014	✓	✓	✓	✓
Jan-2015	✓	✓	✓	✓
Feb-2015	✓	✓	✓	✓
Mar-2015	✓	✓	✓	✓
Apr-2015	✓	✓	✓	✓
May-2015	✓	✓	✓	✓
Jun-2015	✓	✓	✓	✓
Jul-2015	✓	✓	✓	✓
Aug-2015	✓	✓	✓	✓
Sep-2015	✓	✓	✓	✓
Oct-2015	✓	✓	✓	✓
Nov-2015	✓	✓	✓	✓
Dec-2015	✓			



## FY 2016 Special Studies

- Sediment Evaluation [Study Plan posted on UNRBA website](#)
  - Draft report anticipated in the next few weeks
- High Flow Sampling [Study Plan posted on UNRBA website](#)
  - Awaiting suitable rain to collect next samples at target stations
- Obtain Light Penetration Data [Study Plan posted on UNRBA website](#)
  - Evaluating whether more data is needed for modeling, and how much
- Storm Event Sampling [Study Plan posted on UNRBA website](#)
  - Analyzing data from Sept-Oct event
  - Awaiting opportunity for next event
- Basic Evaluation of Model Performance [Study Plan posted on UNRBA website](#)
  - Work under way
- Recreational Use Surveys [Study Plan posted on UNRBA website](#)
  - Data compilation under way



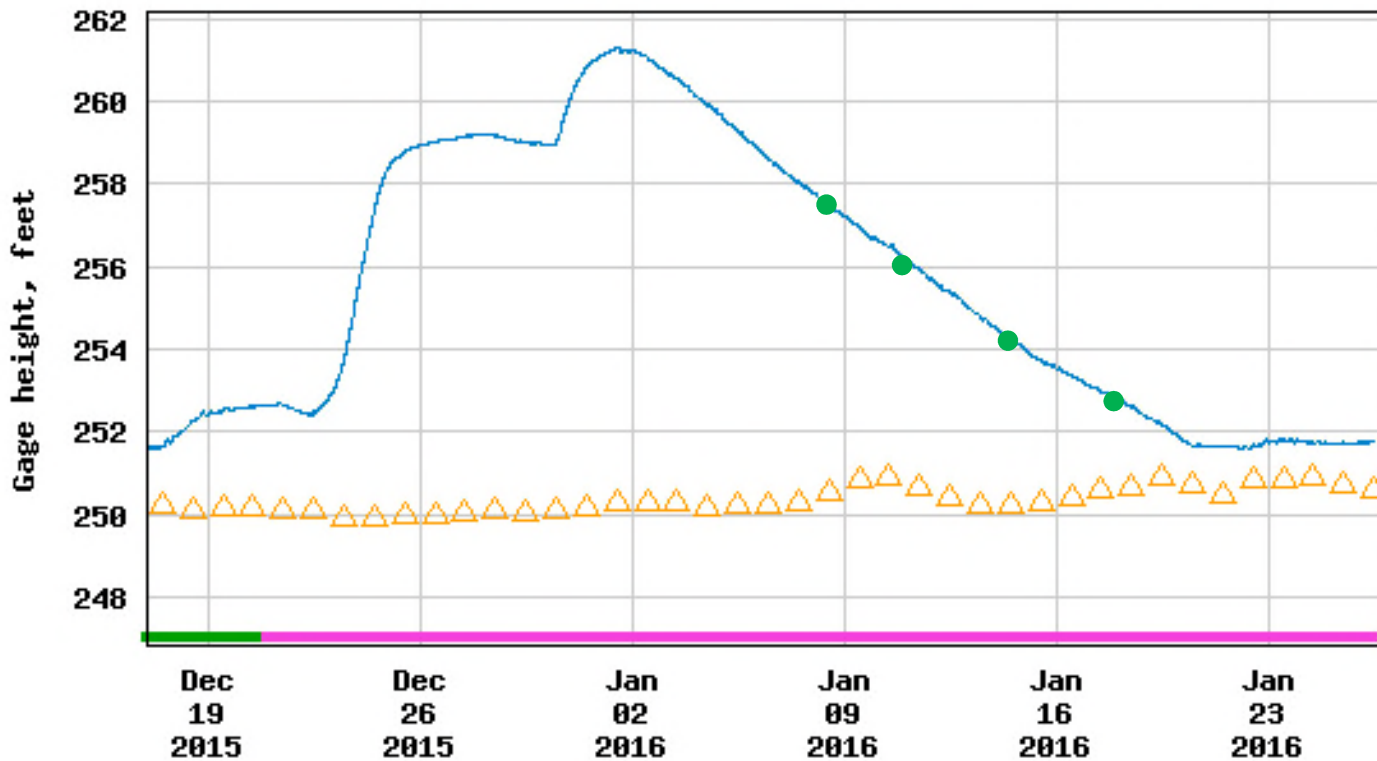
## FY 2016 Special Studies

- Lake Constriction Point Study [Study Plan posted on UNRBA website](#)
  - Designed to better quantify movement of water and nutrients between segments of Falls Lake
  - Data collected at the I-85 and Hwy 50 bridge crossings
  - Measures water movement and water quality
  - Targets sampling during periods of higher flows
  - Results will help improve new lake model
  - **Conducted first of two planned events in early January**





## USGS 02087182 FALLS LAKE ABOVE DAM NR FALLS, NC



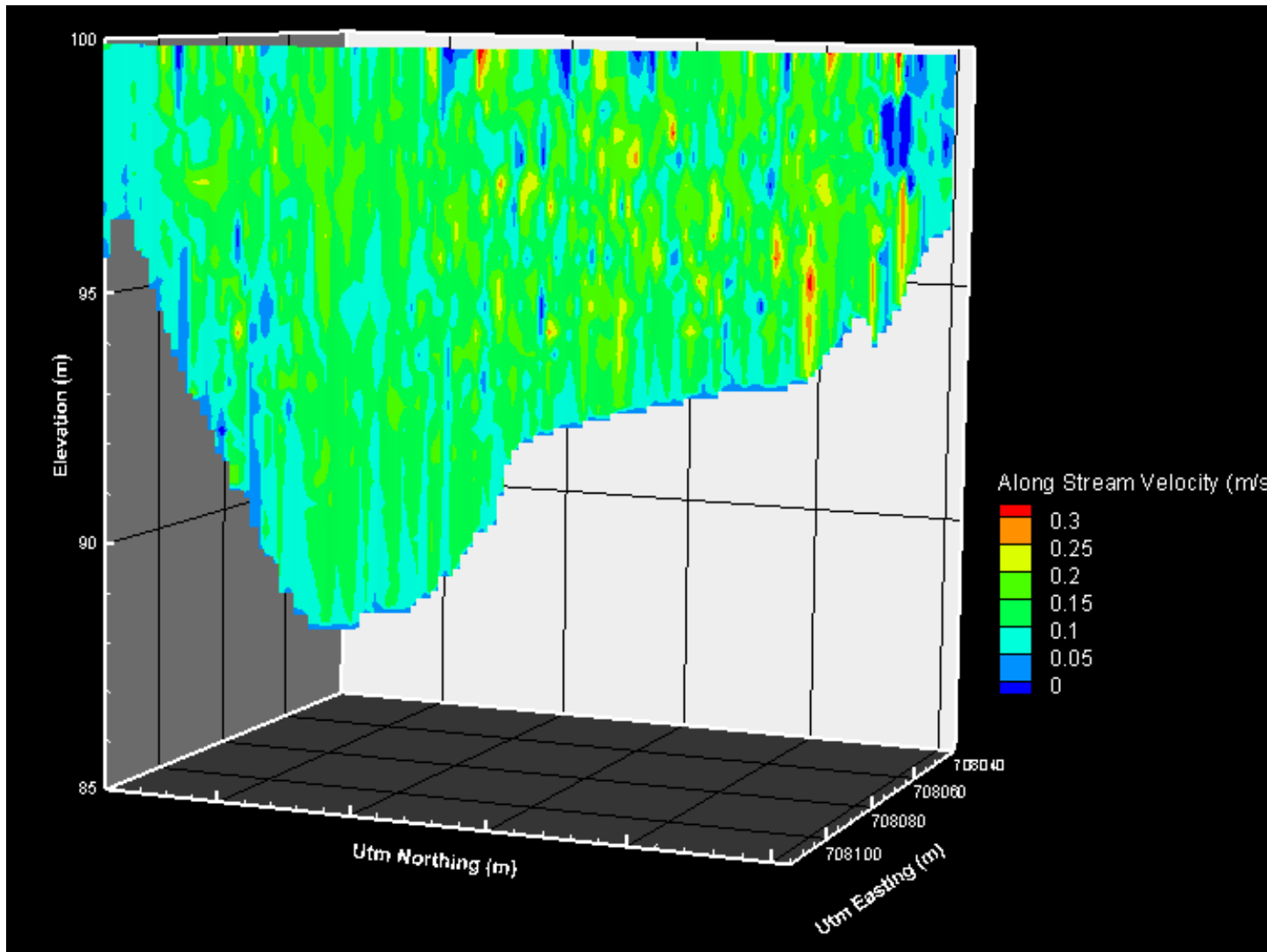
- △ Median daily statistic (27 years)
 ■ Period of approved data
- Gage height
 ■ Period of provisional data





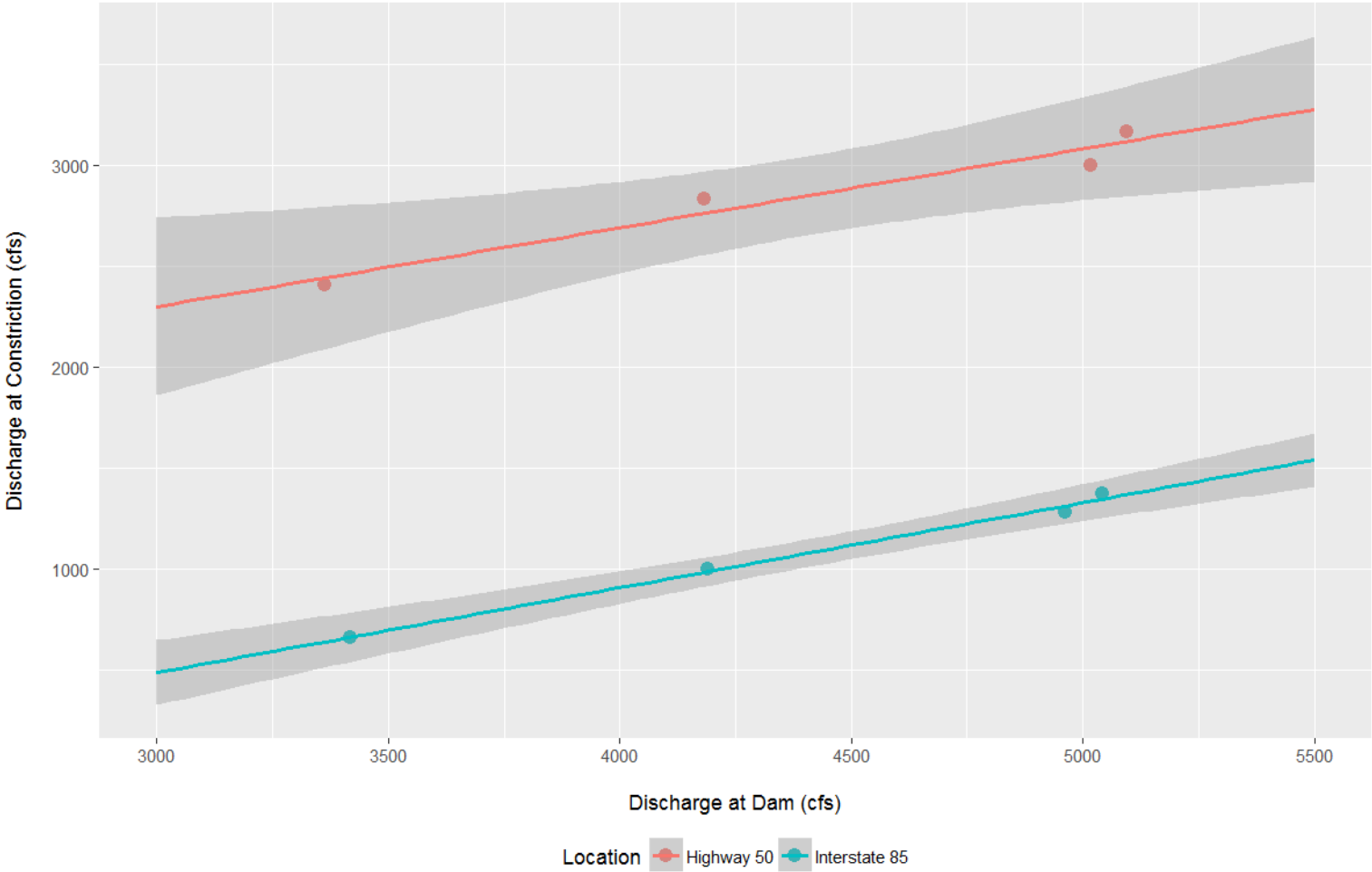


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Shaping the Future





Falls Lake  
January 8 - 18, 2016





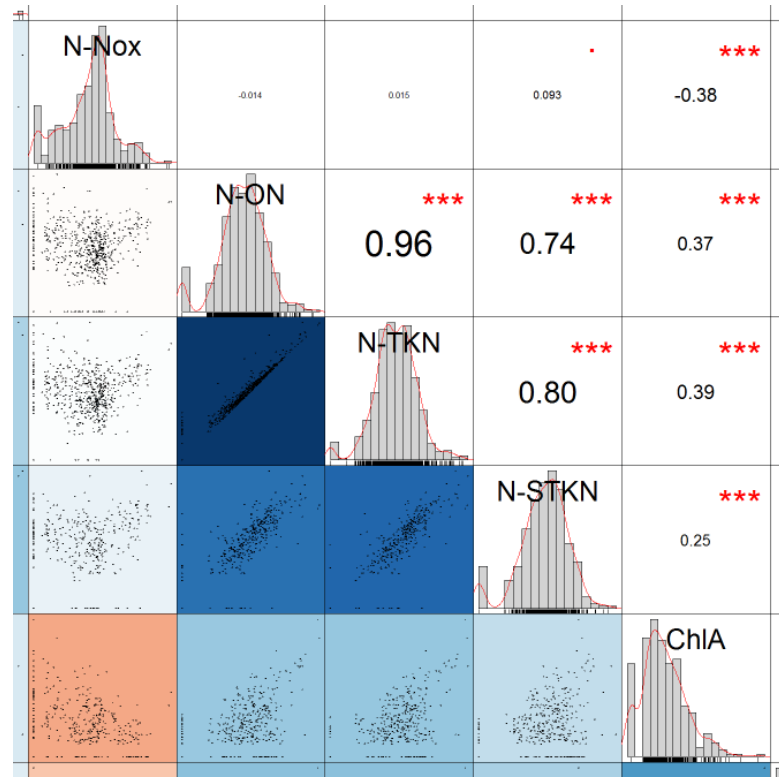
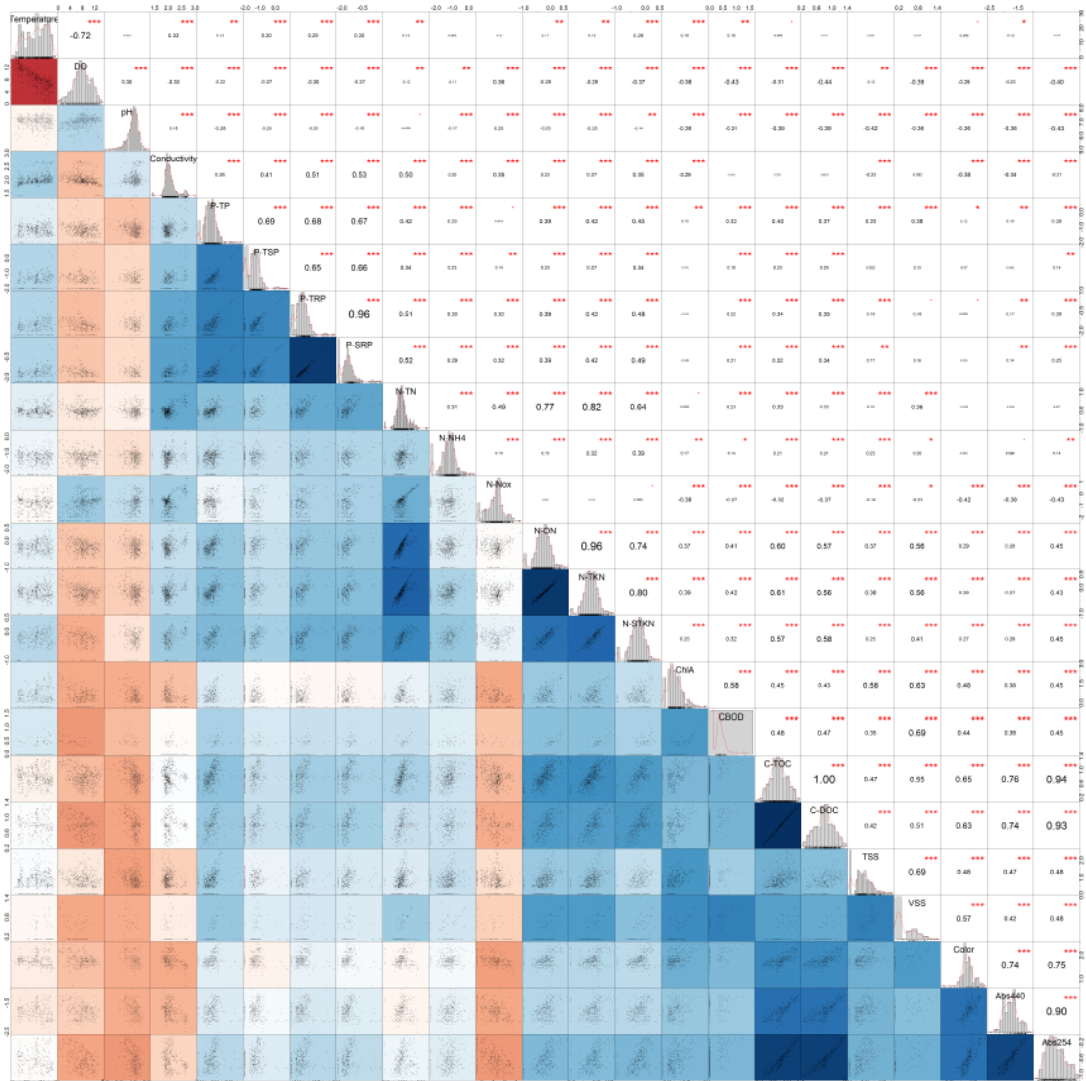
## FY 2016 Special Studies

- Lake Constriction Point Study
  - Water quality results due back from the lab in February
  - Overview of findings will be presented at future PFC and BOD meetings
  - Available results and analysis will be provided in the Annual Report



## Looking Ahead

- Monitoring Program Modifications
- Developing recommendations for Routine Monitoring and Special Studies
  - To ensure optimal and cost-effective data collection
  - To help make funds available to begin modeling efforts in FY 2017





## Looking Ahead

- Annual Report due in April 2016
  - Focus on efforts through December 2015
  - Summary of all Routine Monitoring
  - Status Update and/or Results for each Special Study
  - Recommendations on Modifications to Program

