

UNRBA
Monitoring Program
BOC Meeting
January 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 eight stations
- Obtain Light Penetration Data [Study Plan posted on UNRBA website](#)
 - DWR collected data in October 2016 and provided brief report
 - 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
- Basic Evaluation of Model Performance [Study Plan posted on UNRBA website](#)
 - Work is under way
- Recreational Use Surveys [Study Plan posted on UNRBA website](#)
 - Data compilation under way



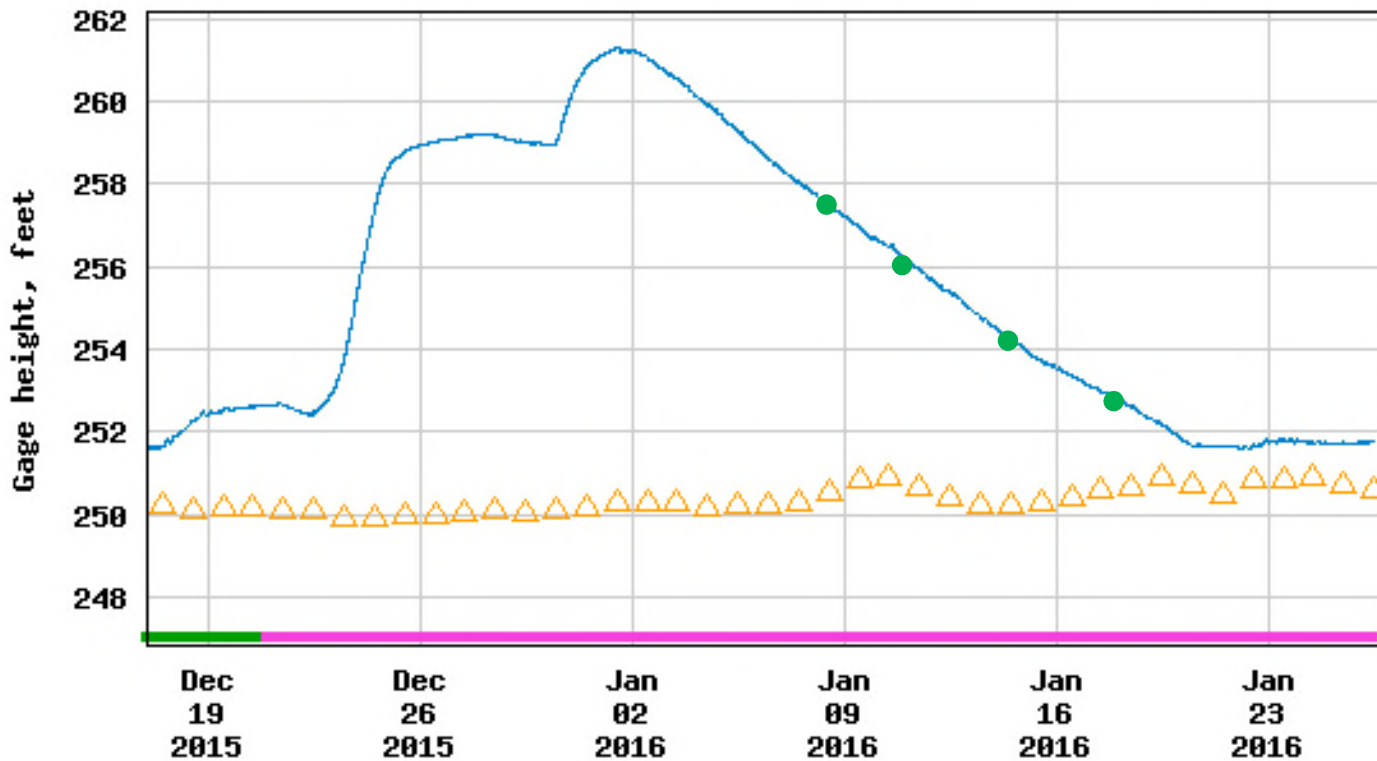
FY 2016 Special Studies

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





USGS 02087182 FALLS LAKE ABOVE DAM NR FALLS, NC

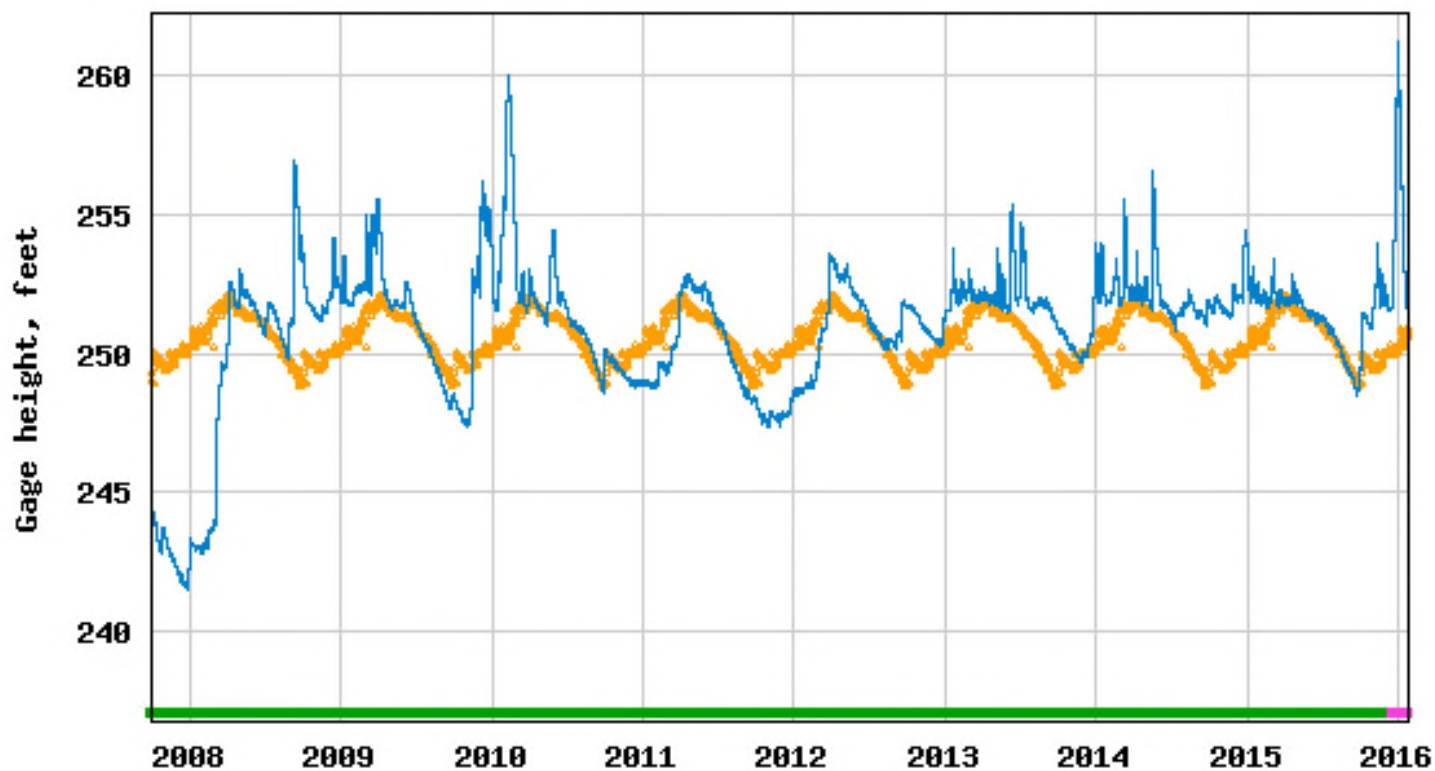


△ Median daily statistic (27 years) ■ Period of approved data
— Gage height ■ Period of provisional data





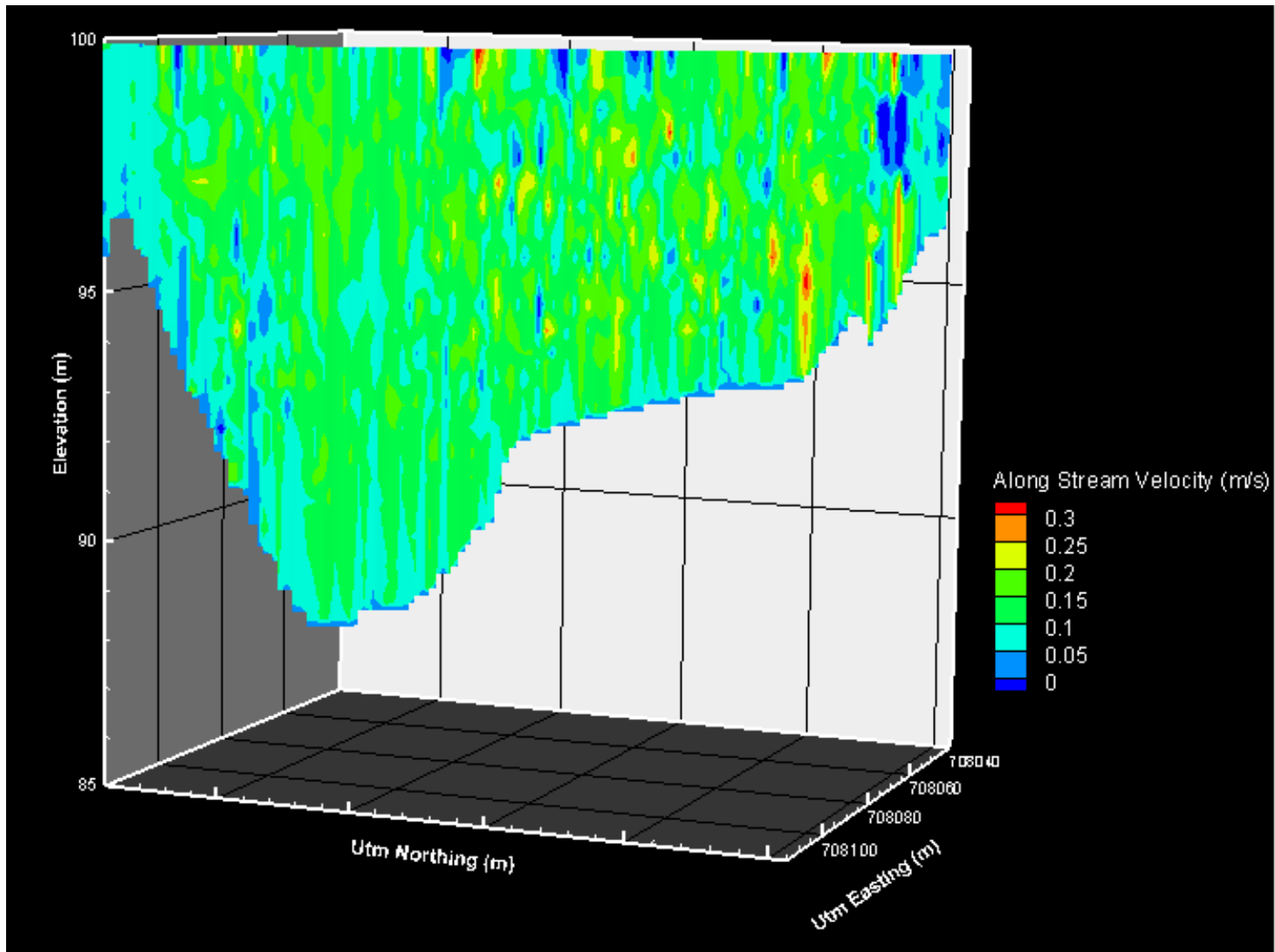
USGS 02087182 FALLS LAKE ABOVE DAM NR FALLS, NC



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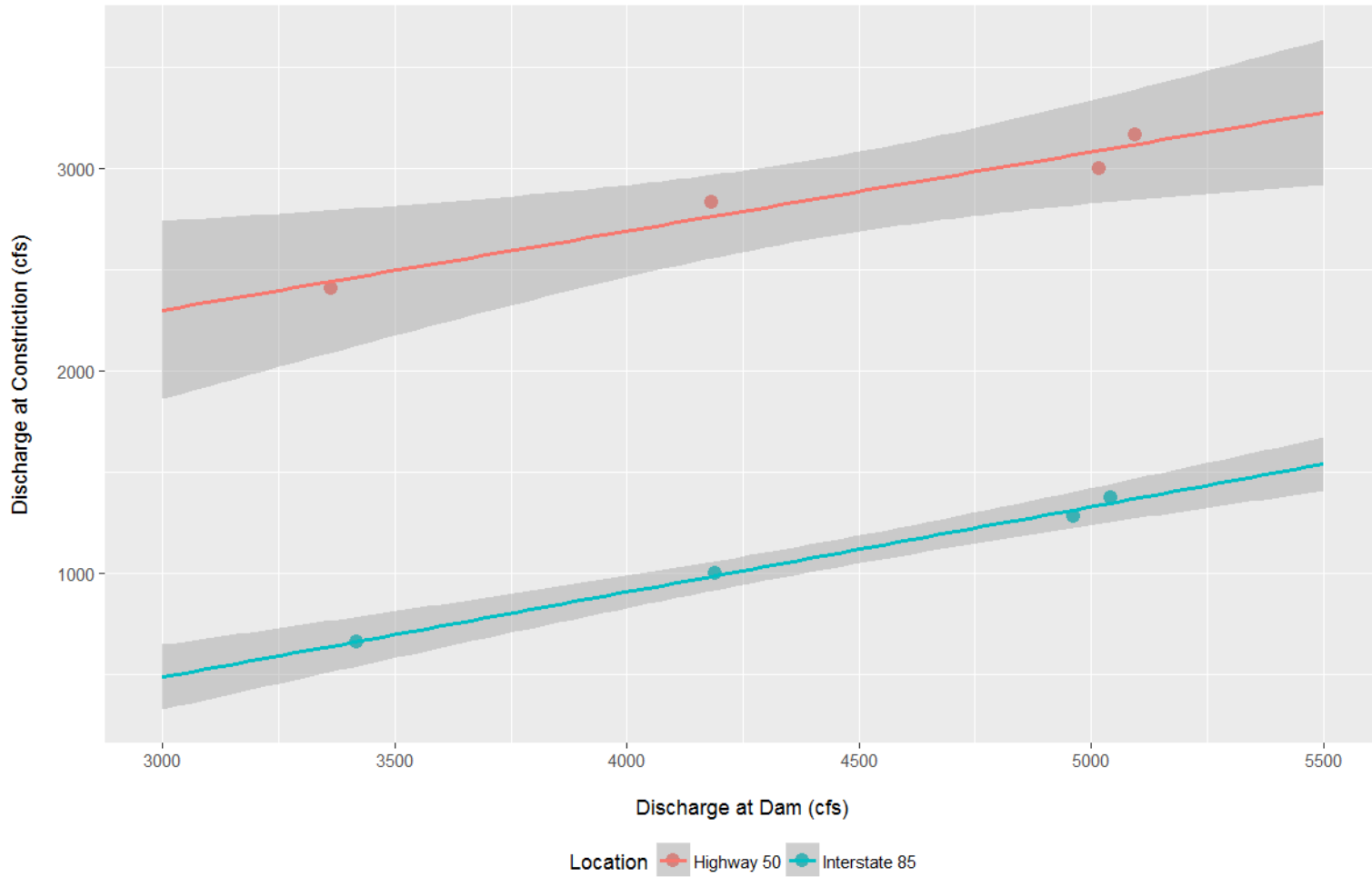


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Shaping the Future





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 in future PFC and BOD meetings
 - Available results will be provided in the Annual Report



Interim Report

- Posted on the UNRBA website
- Focuses on efforts through June 2015 (FY2015)
- Includes
 - Review of monitoring program status and data collection efforts
 - Routine Monitoring
 - Special Studies
 - Preliminary exploration of the data
 - Focuses on tributary data; lake data will be included in 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
- Annual Report due in April 2016
 - Focuses on efforts through December 2015
 - Summary of all Routine Monitoring
 - Status Update and/or Results for each Special Study
 - Recommendations on Modifications to Program

