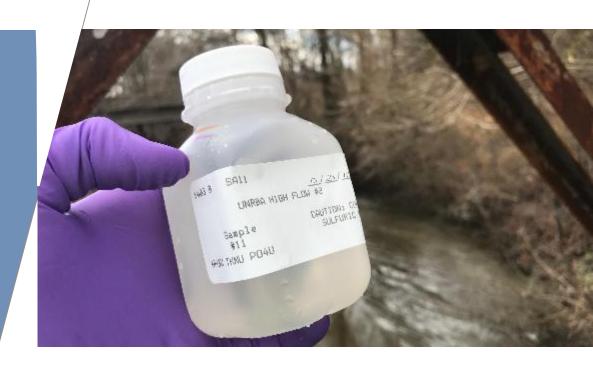


Monitoring Program Update

Path Forward Committee
Meeting

January 2017













Routine Monitoring – Data generation status

Date	Sample Collection	Sample Analysis	Data Review	Posted to Database
Aug-Dec 2014	✓	✓	✓	✓
Jan-Dec 2015	✓	✓	✓	✓
Jan-2016	✓	✓	✓	✓
Feb-2016	✓	✓	✓	✓
Mar-2016	✓	✓	✓	✓
Apr-2016	✓	✓	✓	✓
May-2016	✓	✓	✓	✓
Jun-2016	✓	✓	✓	✓
Jul-2016	✓	✓	✓	✓
Aug-2016	✓	✓	✓	✓
Sep-2016	✓	✓	✓	✓
Oct-2016	✓	✓	✓	✓
Nov-2016	✓	✓		
Dec-2016	✓	✓		
Jan-2017	✓			





Special Studies Updates



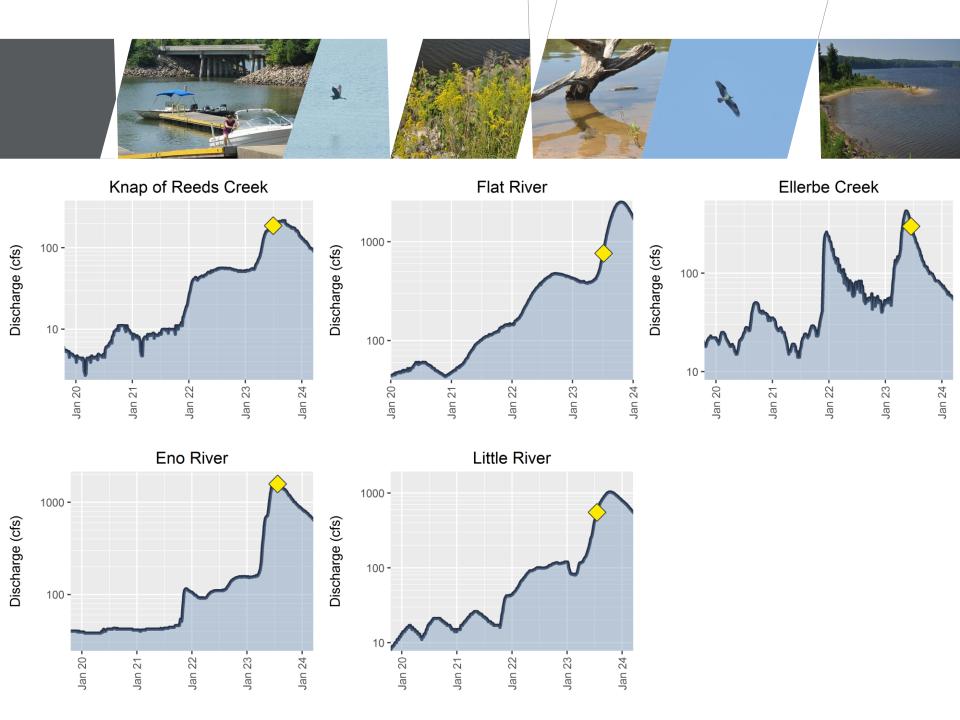


High Flow Sampling

- Collect water quality data when inflows to Falls Lake are high
- No samples collected in November or December (no high flow events)
 - below average rainfall
 - precipitation occurred in small amounts which did not produce significant runoff events

	November	December
Average Precipitation	3.1 inches	3.1 inches
2016 Precipitation	0.6 inches	1.5 inches

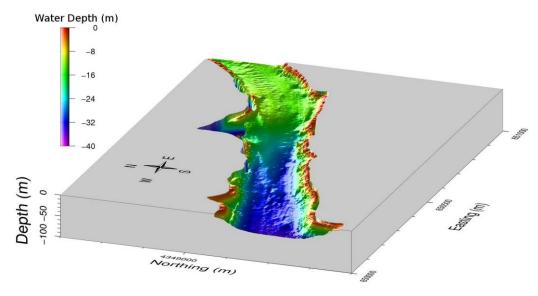
Average Precipitation is 30 year average from weather.gov for RDU. **2016 Precipitation** values are averages from USGS rain gages within the basin.





Bathymetry and Sediment Mapping

- Map the underwater topography for improved modeling of the retention and movement of water through the reservoir.
- Planned for Spring 2017
- Study plan is complete and will be posted online.

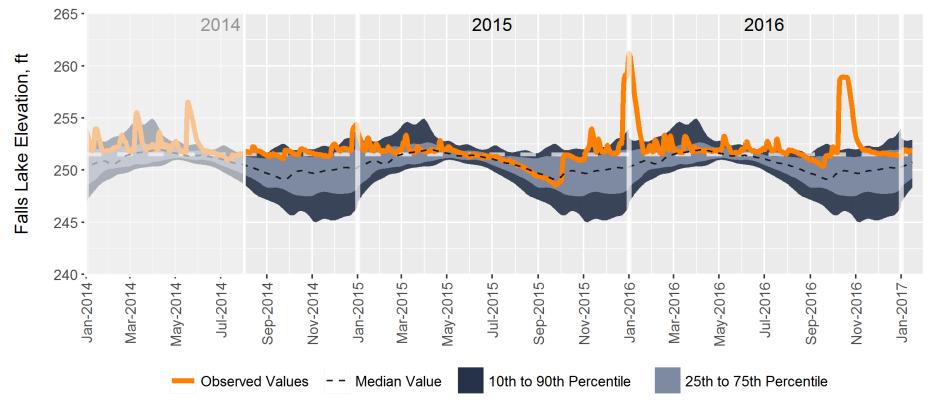






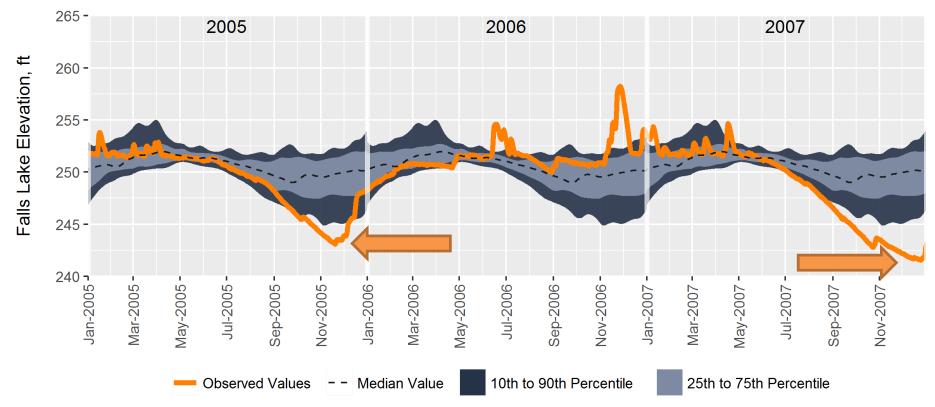


Lake Level – UNRBA Monitoring Program

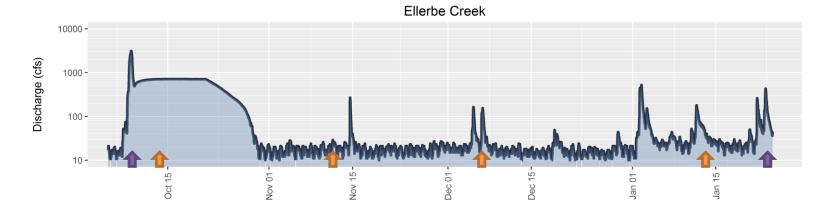


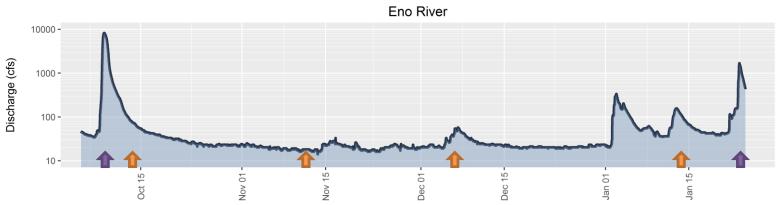


Lake Level - Model baseline years





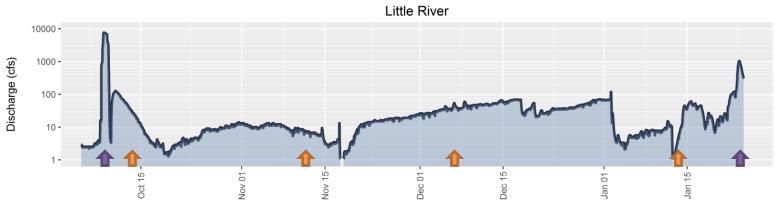


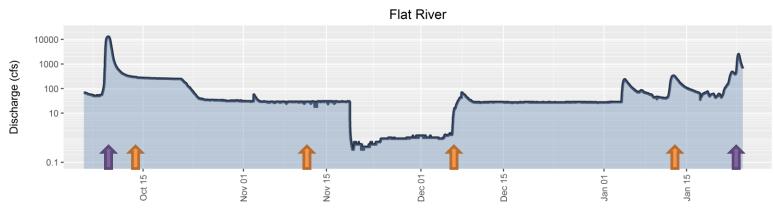


Routine monitoring event

1 High Flow sampling event



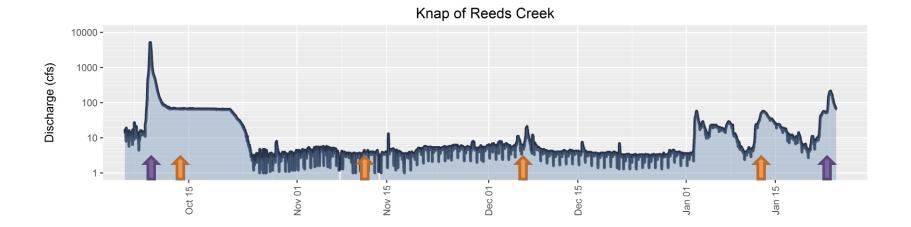




Routine monitoring event

THigh Flow sampling event





1 Routine monitoring event

1 High Flow sampling event



