

# Monongahela River TMDL Calibrations

Hydrology Calibration

Gauge Height Comparisons

Fecal Coliform Water Quality Calibration

# Hydrology Calibration

Group D3  
Monongahela River EFDC Model  
Hydrology Calibration  
November 15, 2017

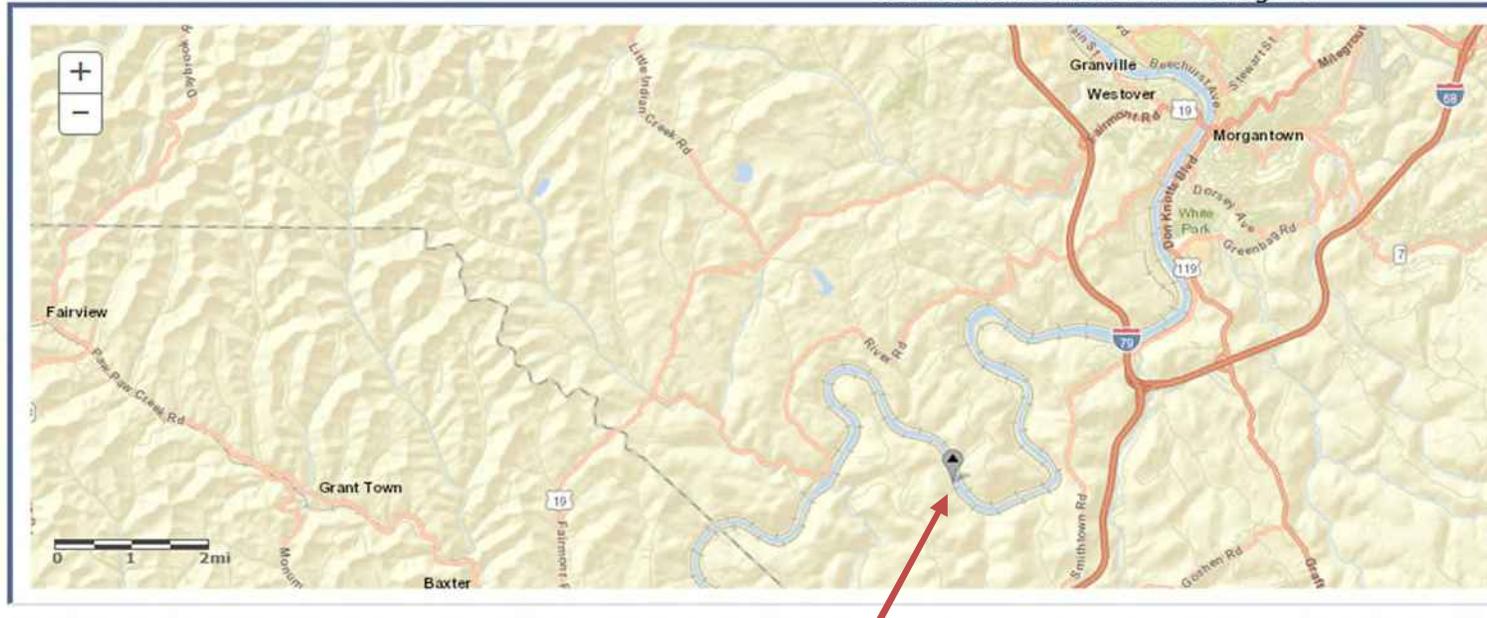
Note: Orange line on the graph represents daily average modeled flow. Blue dots show daily average flow observations from USGS stream gage on Monongahela River at Flaggy Meadow.

**USGS 03062235 MONONGAHELA RIVER AT FLAGGY MEADOW, WV**

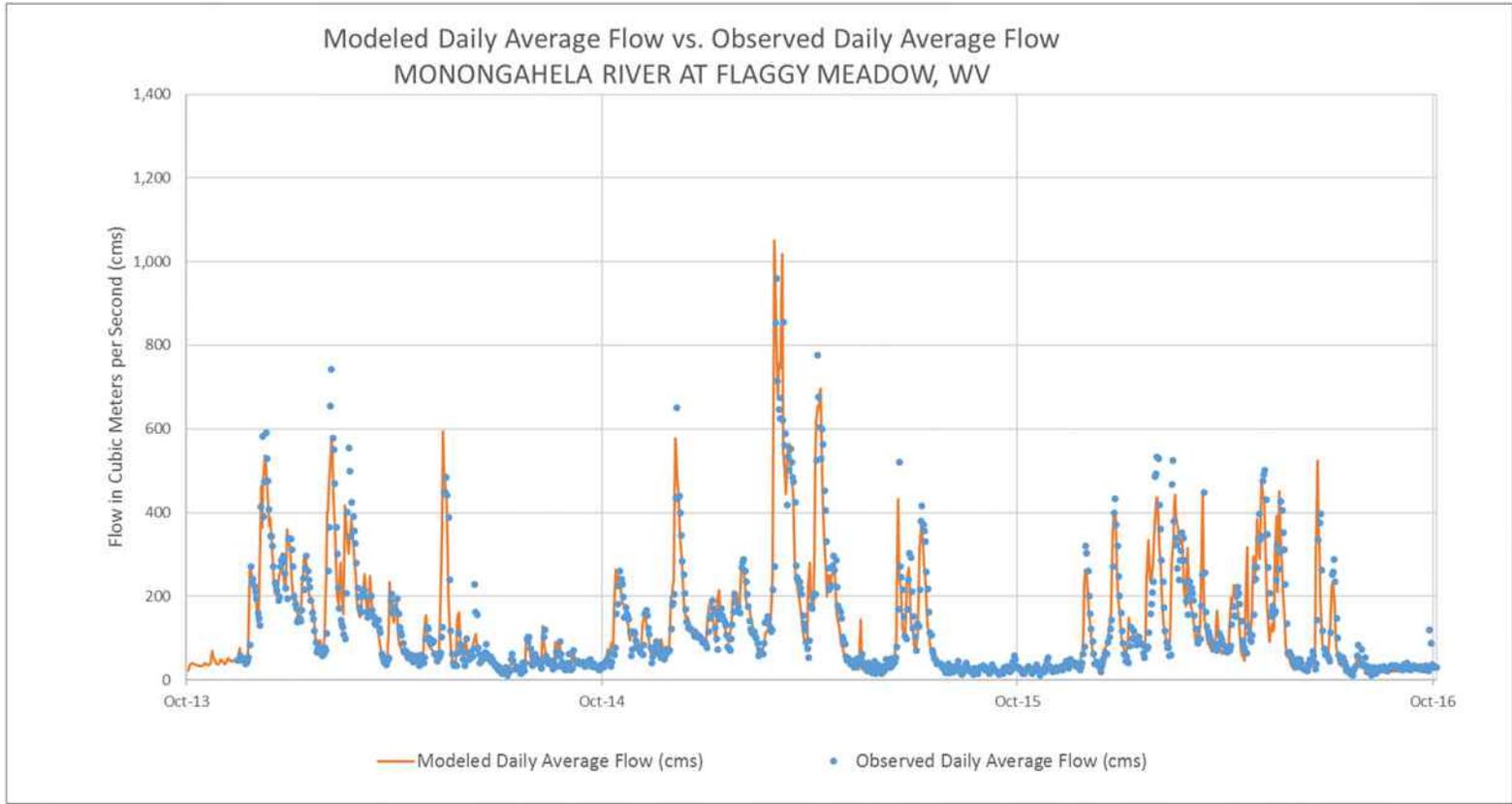
Available data for this site

Monongalia County, West Virginia  
Hydrologic Unit Code 05020003  
Latitude 39°33'47", Longitude 80°01'18" NAD83  
Drainage area 2,532 square miles  
Contributing drainage area 2,532 square miles

**Location of the site in West Virginia**



Gage is located at approximately River Mile 113

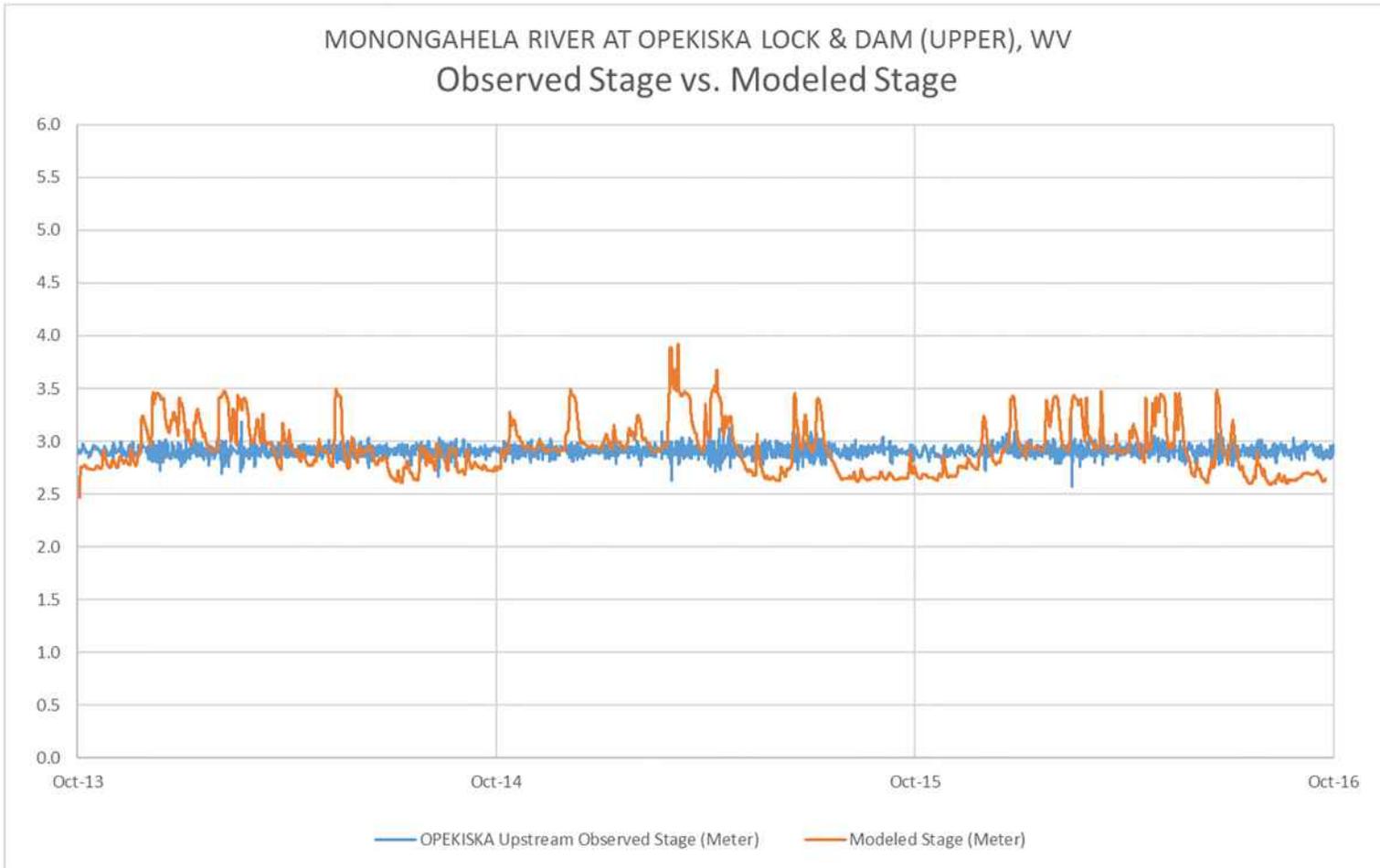


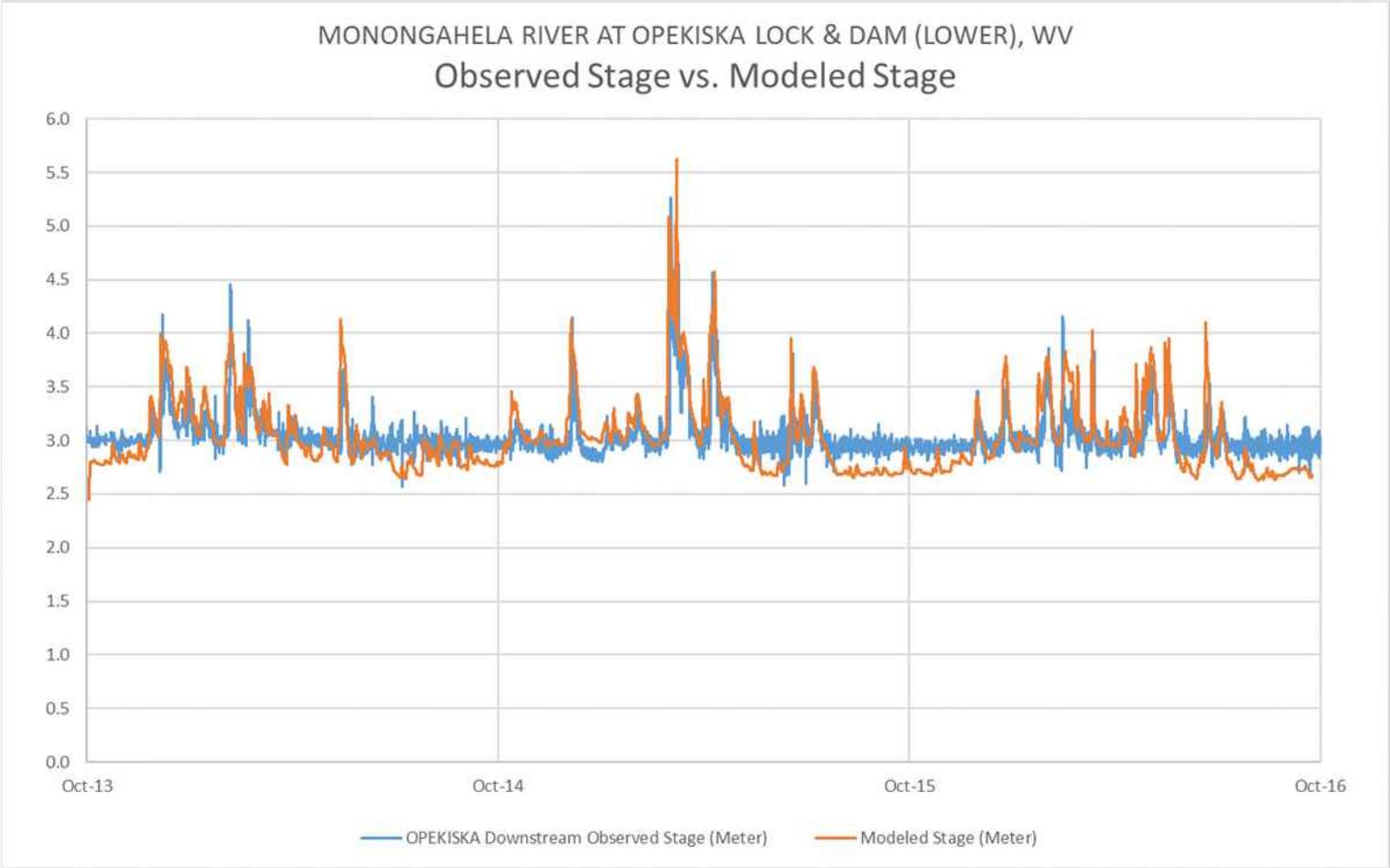
## Gauge Height Comparisons

Group D3  
Monongahela River EFDC Model  
USGS Gage Height Comparison  
November 14, 2017

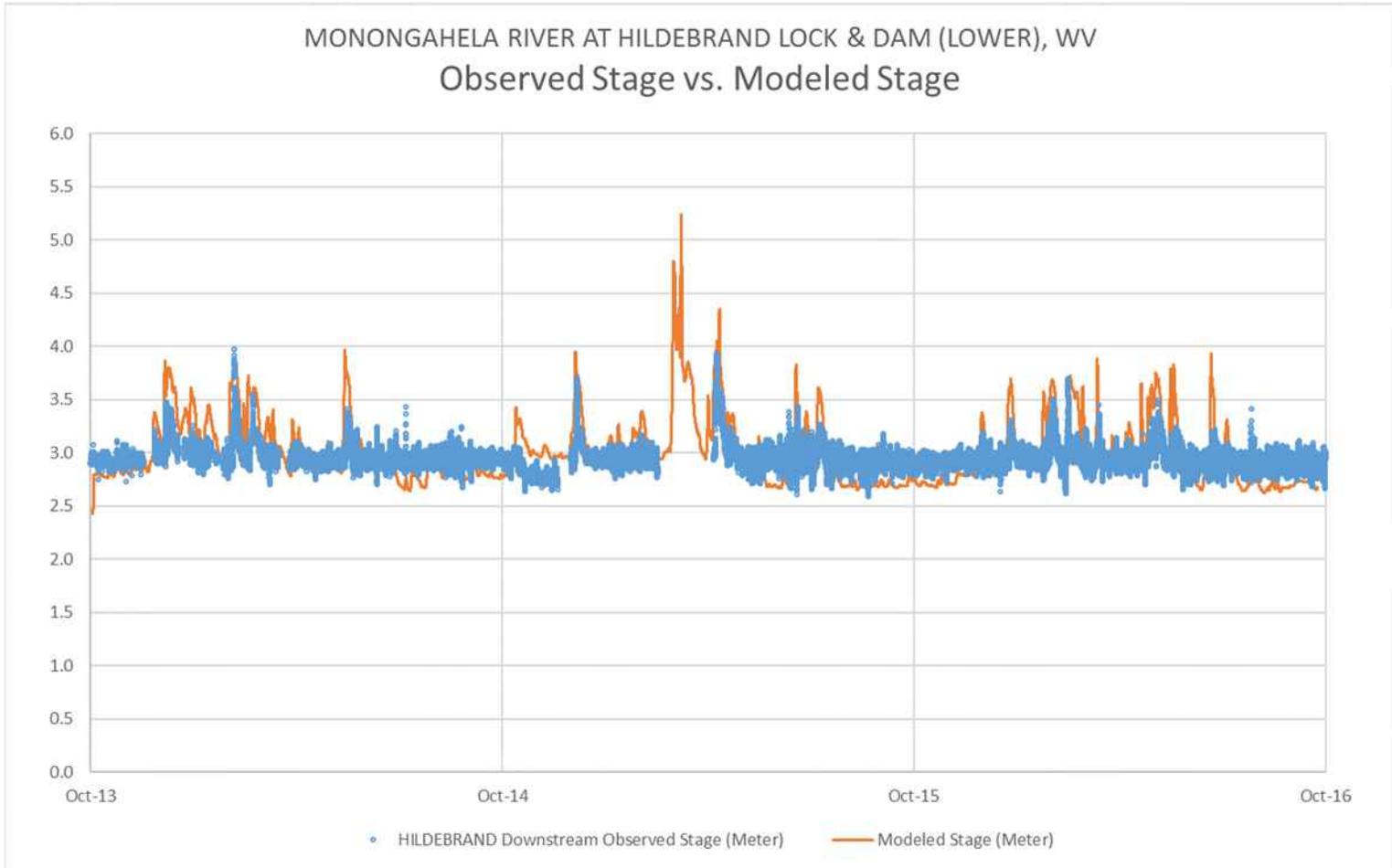
Note: Orange lines on the graph represent water level model output for model grid cells above and below locks and dams. Blue lines show gage height observations at USGS stream gages at locks and dams on the Monongahela River.

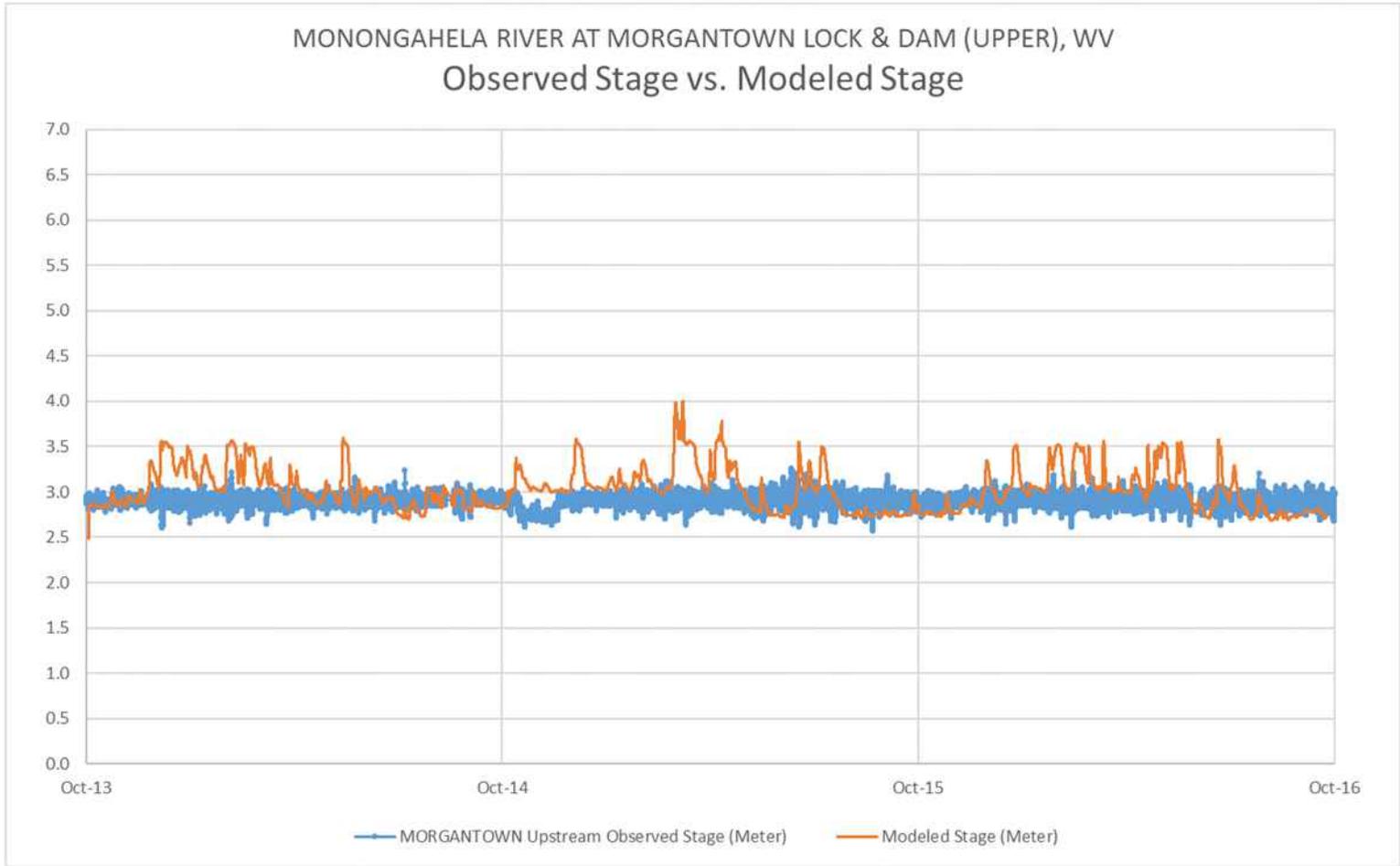


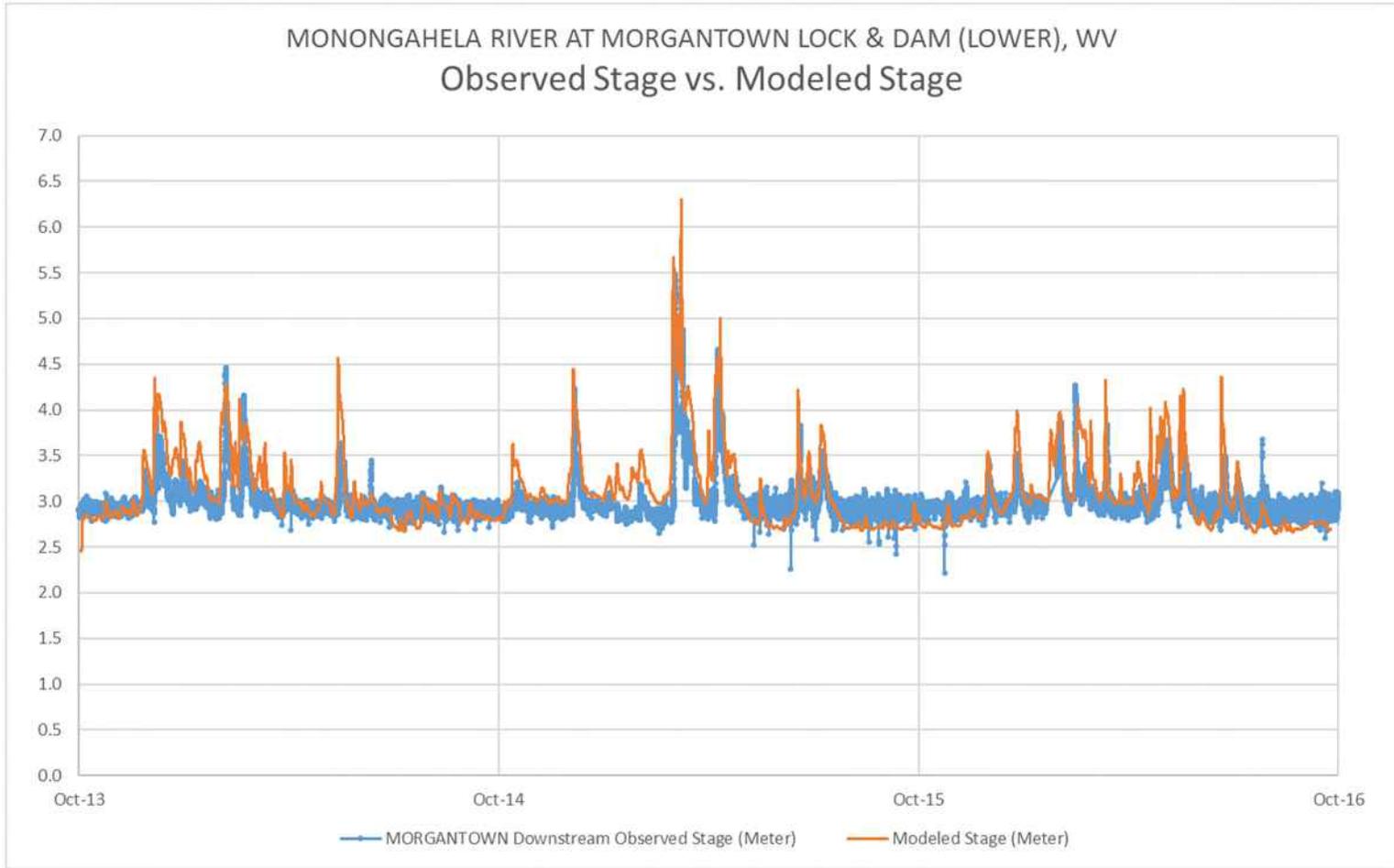












# Fecal Coliform Water Quality Calibration

**Group D3**  
**Monongahela River EFDC Model**  
**Fecal Coliform Water Quality Calibration Plots**  
**January 29, 2018**

The TMDL model was run under baseline conditions with nonpoint sources, NPDES permitted point sources, MS4 areas, CSOs, and failing septic systems represented at 100% of loading rates. Flows from tributaries with previously developed 2014 TMDLs were represented at unreduced baseline conditions.

Note: Blue lines in graphs represent model output. Red circles show pre-TMDL monitoring field data observations.



