

# South River Mercury TMDL – June 2005

- Monitoring Stations
- Stream Flow
- Water Sampling
- Next Steps Plans

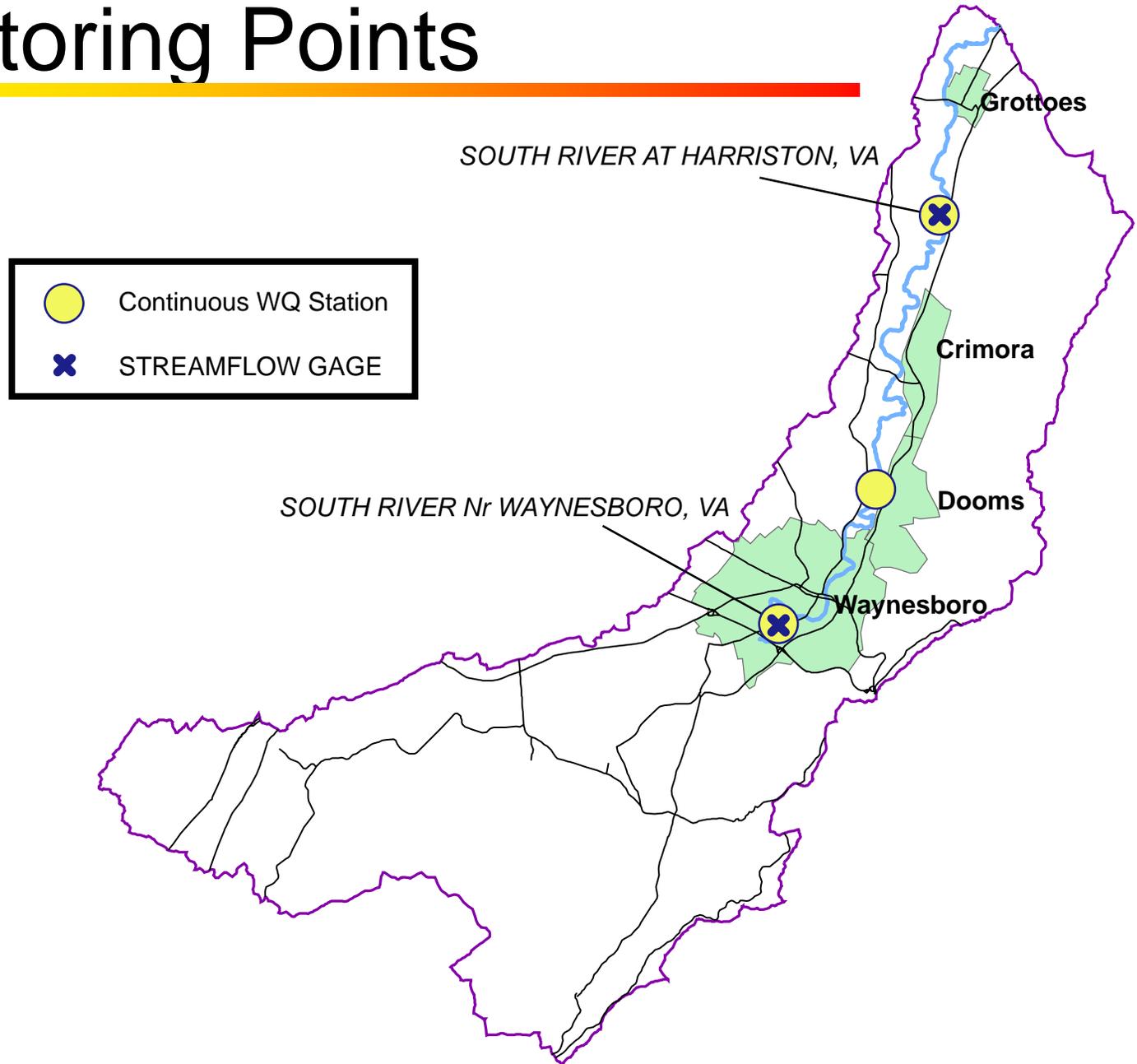


Jack Eggleston

# South River Mercury TMDL: Study Goals

- Characterize cycling of total mercury and methyl mercury
- Develop mathematical models for simulating surface water flows and methyl mercury production and transport
- Determine loading reductions needed to achieve fish tissue Hg levels of less than 0.5 ppm

# South River Watershed and WQ Monitoring Points



# Installation of Monitoring Stations

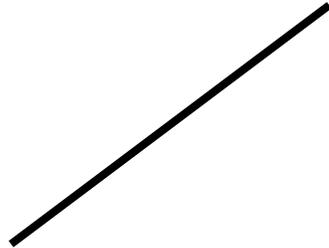
## Waynesboro

*In Progress*



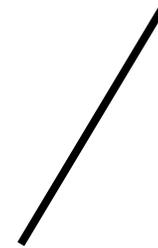
## Dooms

*Complete*



## Harriston

*Complete*



# Data on the Web

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**01626000 SOUTH RIVER NEAR WAYNESBORO, VA**

[http://waterdata.usgs.gov/nwis/uv?site\\_no=01626000](http://waterdata.usgs.gov/nwis/uv?site_no=01626000)

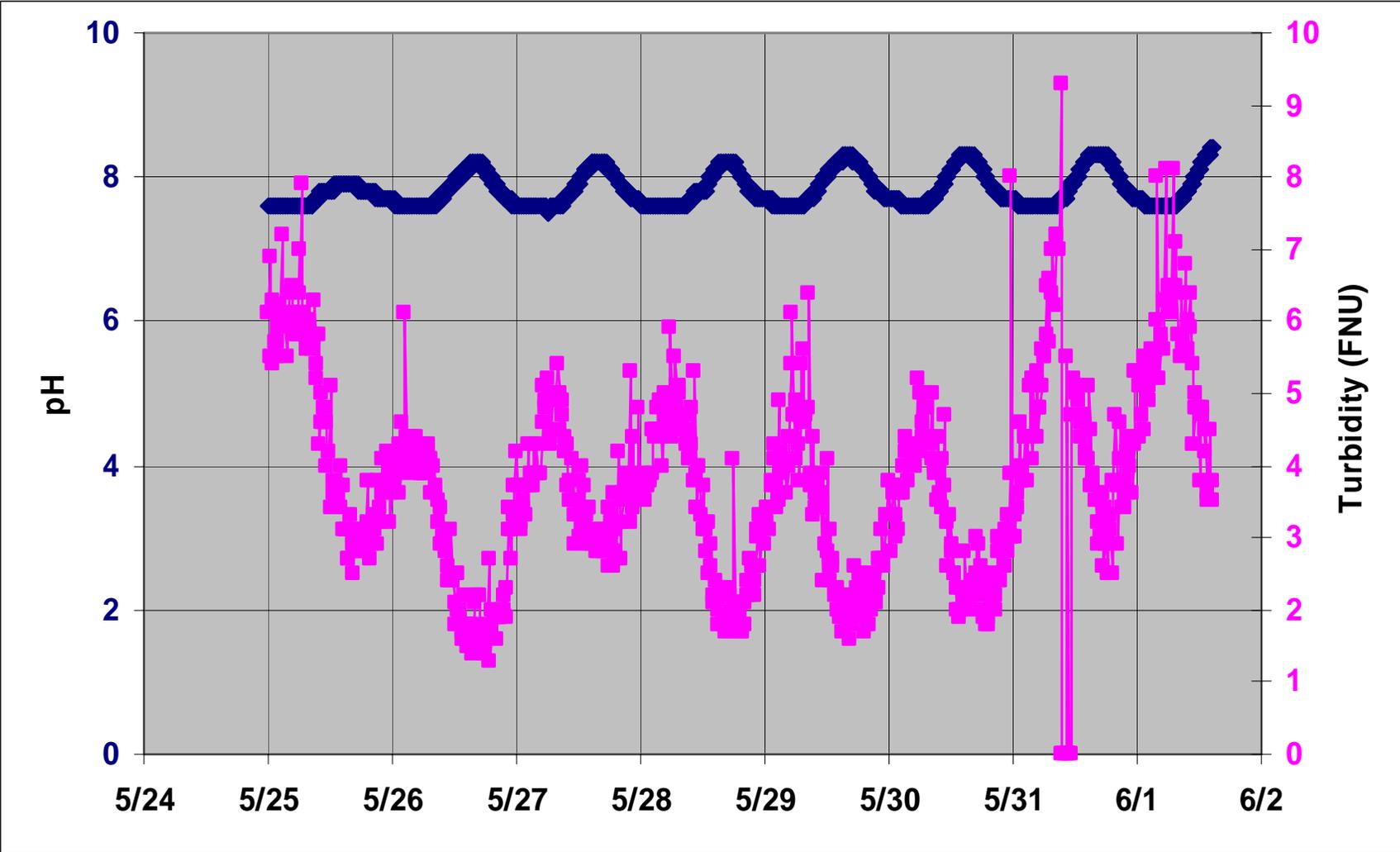
**01626920 SOUTH RIVER, OLD RT 611 AT DOOMS, Va.**

[http://waterdata.usgs.gov/nwis/uv?site\\_no=01626920](http://waterdata.usgs.gov/nwis/uv?site_no=01626920)

**01627500 SOUTH RIVER AT HARRISTON, VA**

[http://waterdata.usgs.gov/nwis/uv?site\\_no=01627500](http://waterdata.usgs.gov/nwis/uv?site_no=01627500)

# Continuous Monitoring Results - Dooms

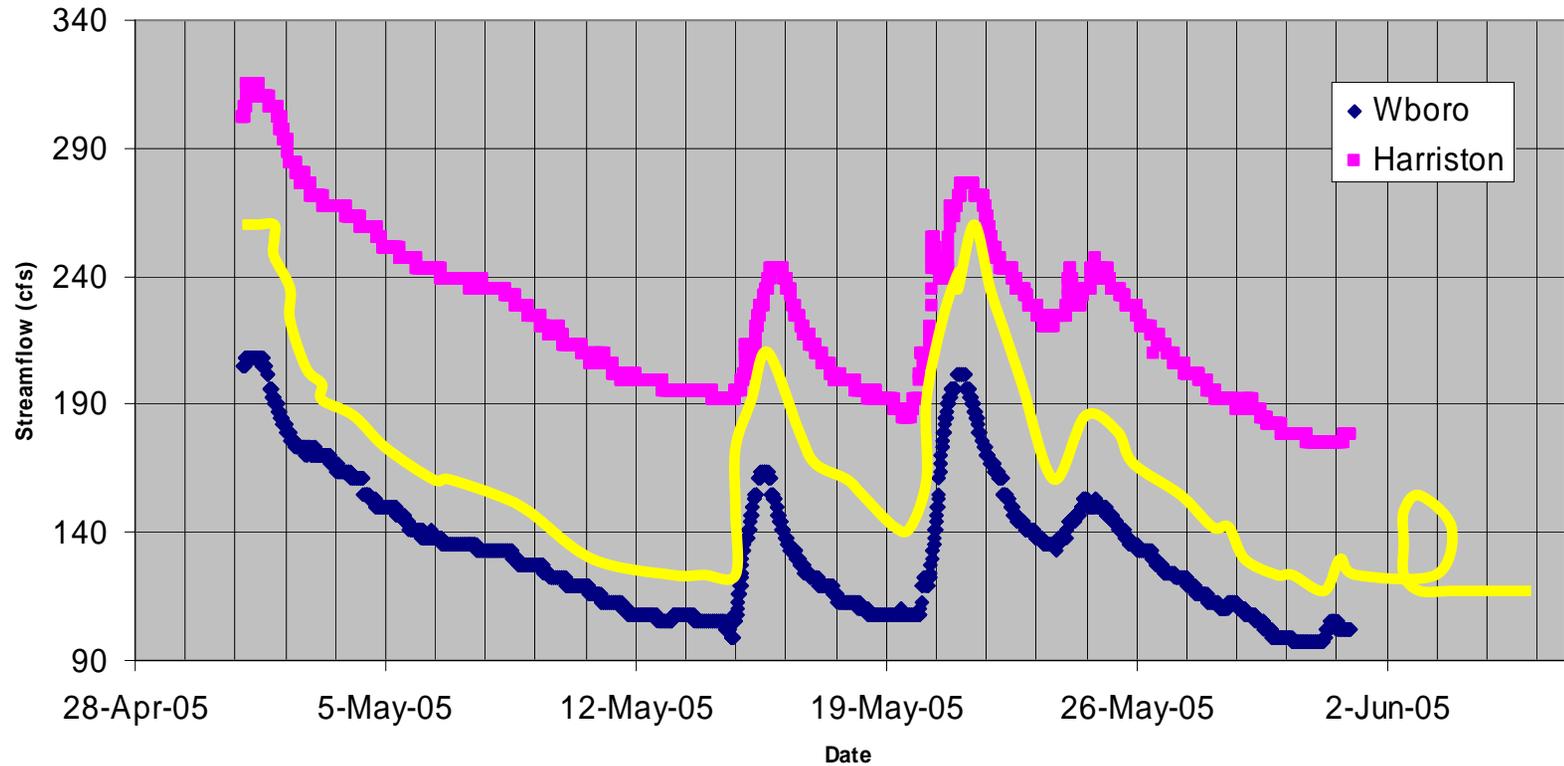


# Analysis of Surface Water

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- First sampling May 2 (results not back yet)
- Regular sampling on a monthly schedule
- Stormwater sampling when possible
- Hg and MeHg, both filtered and unfiltered will continue to be analyzed for now
- Sulfate, DOC, Chloride, Sediment conc. are also analyzed

# South River Flows - Waynesboro and Harriston, May 2005





# Upcoming Work

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- Finish equipment installation at Waynesboro station
- Expand monthly sampling to all stations
- QA/QC on analytical procedures/results
- Finalize data processing steps for continuous QW data
- Start storm sampling