

Historic Data Cleanup

Presentation to the CBP Management Board

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WTWG CHARGE

- Responsible for organizing efforts to create more accurate BMP records from 1985 to present
- Address need for:
 - Model Recalibration and the 2017 Midpoint Assessment
 - Support efforts to explain long-term monitoring trends

Why is this Data So Important?

- Belief that Government, Industry, and Public need to see measurable improvements for the efforts undertaken
- The TMDL requires that progress be made in reducing loads (implementing BMPs/MAs) as documentation of compliance in addressing the TMDL
- BMPs “on record” impact sector loads and allocations

Why It's Important

- Calibrating the Phase 6 Watershed Model
 - Accurate BMP and wastewater data through time increases the model accuracy and attributions of loads to sectors and states
 - Historical BMPs will impact lag times in groundwater and surface runoff
- Planning and Reporting Future Actions
 - Data will help identify where to target future implementation
 - Errors in data reporting will complicate state's ability to track progress in the future
 - Accurate data will help the Partnership establish WIP targets
- Understanding Trends in Monitoring Data
 - Accurate BMP data will help USGS and partners evaluate how BMPs and other conditions contribute to water quality monitoring trends

STAR Needs Data

- The Scientific, Technical, Assessment, and Reporting (STAR) Team's needs to understand and explain the effects of management actions and time series data (population, land use, and other factors) to inform the public on bay restoration progress.

Modeling WG Comments

- BMP History Clean-up important for
 - Watershed Model Calibration
 - Reducing Modeling Uncertainty (NAS, STAC)
 - Explaining water quality trends (STAR priority)
- Most important are “biggest hitters”
 - Model needs all 1985-2011 BMP inputs, but those that make biggest pollutant reductions will have the biggest influences
 - Big hitters will vary by jurisdiction – the “watermelon charts” that states are using to evaluate BMP effectiveness in verification programs may provide guidance for history clean-up priorities.
- MWG recognizes that the revised BMP information for the more recent past will have the highest confidence and will consider in calibration. But using the “bpj” of jurisdiction experts to populate older years is also valuable.

What Needs to be Completed?

- Submission of all historical BMP data (1985 through June 30, 2014) to NEIEN by September 30, 2015
 - States should focus on collecting data for practices implemented from 2000 through the present.
 - States should estimate implementation prior to 2000 if quality implementation data is not available
- Submission of significant and non-significant wastewater data (1985 through June 30, 2014) to CBPO using approved wastewater data templates

Data Cleanup Guidance

Strengthening Verification of Best Management Practices Implemented in the Chesapeake Bay Watershed: A Basinwide Framework



Phase 6 Calibration Timeline

- **March, 2015** - All major Partnership decisions are made on changes to Scenario Builder processing and data; Scenario Builder final modifications begin
- **April, 2015** – Final targets approved by Modeling Workgroup for Phase 6 draft land uses
- **September 30, 2015** – All historical BMP data due to NEIEN
- **Early October, 2015** – All inputs are final and delivered to Watershed Model by Scenario Builder for final calibration run; final targets are based upon this information
- **December, 2015** – Phase 6 draft Watershed Model is complete; evaluation of key scenarios and fine-tuning begins and continues over next 12 months
- **September, 2016** – Final comments on draft Phase 6 Watershed Model due to the Partnership
- **December, 2016** – All models are final; Partnership decision-making process begins to address how these new models will be used in WIP3 process
- **If the September 30 date is missed or the historical data is poor on September 30, all testing and decision-making in 2016 will suffer.**

Resources Provided

- FY14 WIP Assistance Funds
 - \$317,900 awarded to DC, MD, NY and VA for historical data cleanup projects
- CBRAP
 - Historical data cleanup is an allowable use of CBRAP funds and allowable use of local funds EPA granted to local governments in FY14.
- VA Example:
 - VA is making the following available to localities for historical data cleanup:
 - Approx. \$390,000 of local funding
 - Approx. \$93,000 of WIP assistance funds
 - \$1,020,000 of FY10-12 CBRAP un-liquidated obligations
- FY15 WIP Assistance Funds
 - \$400,000 made available to jurisdictions for developing verification procedures and programs and historical data cleanup.
 - Requests for funding and associated estimates are due to Lucinda Power (power.lucinda@epa.gov) by February 13, 2015. Jurisdictions will be notified of awards by February 25, 2015.