STAR Special Session: Monitoring Budgets FY13

July 22, 2013

9:30 AM – 2: 00 PM

	2009	2010	2009/2010 Difference	2011	2010/2011 Difference	2012	2011/2012 Difference	2013***	2012/2013 Difference
Tidal	2,065,702	2,054,143	-11,559	2,120,090	+65,388	2,145,504	+25,414	-	-
Non-tidal*	300,000	914,213	+614,213	1,038,846	+124,633	1,704,149	+665,303	-	-
Expansion*	0	0	0	935,000*	+935,000	1,092,000*	+157,000	0	-1,092,000
Total	2,365,702	2,968,356	+602,654	4,093,936	+1,125,580	4,941,653	+847,717	3,892,000	-1,049,653

Tidal Monitoring

- Reduction option targets:
    - Sampling cruises (frequency, duration)
    - Stations (spatial coverage in all 92 management segments)
    - Samples/sampling (parameters)
    - Programs: benthic, ecosystem processes, plankton
- Maryland review: scenarios out to $300K
- Virginia review: scenarios out to $600K
- General and specific impacts considered with the reduction options.

Non-Tidal Monitoring

- Reduction option targets:
    - Stations (spatial coverage in all 92 management segments)
    - Other options for tuning reductions? (Sample frequency?, Parameters?)
- Community scenarios out to $800K
- Impacts to the network need additional consideration.

Tidal Monitoring

- Reduction option targets:
  - Sampling cruises (frequency, duration)
  - Stations (spatial coverage in all 92 management segments)
  - Samples/sampling (parameters)
  - Programs: benthic, ecosystem processes, plankton
- Maryland review: scenarios out to $300K; Virginia review: scenarios out to $600K
- General and specific impacts considered with the reduction options.

Reduction	Impact	Comments
55K reduction MD & VA Eliminate 2 winter cruises OR 1 cruise + nutrients on another cruise	Inability to support the Benthic IBI recalibration effort	Leveraged program staff cuts have already occurred (VA)
100K reduction MD Eliminate 2 winter cruises VA 2 winter cruises + cutting phytoplankton monitoring	Inability to support the Benthic IBI recalibration effort Complete support of PIBI reduced – no longer a Bay indicator	Leveraged program staff cuts have already occurred (VA)
Next option 253K reduction	>10% will jeopardize sustaining lower Bay cruises/data collection	Integrity of Baywide monitoring program is lost.

Non-Tidal Monitoring

- Reduction option targets:
  - Stations (coverage for gradients of watershed size, land use representation)
  - Other options for tuning reductions? (Sample frequency?, Parameters?)
- Community scenarios out to $800K
- Impacts to the network need additional consideration.

Reduction	Impact	Comments
~800K Stations across the watershed	A final list of stations would consider strategic losses (e.g. Physiographic province representation, land uses represented)	Thresholds between 0-800K not yet considered.

Tidal Monitoring

- Reduction option targets:
    - Sampling cruises (frequency, duration)
    - Stations (spatial coverage in all 92 management segments)
    - Samples/sampling (parameters)
    - Programs: benthic, ecosystem processes, plankton
- Reductions considered >30%
    - Maryland review: scenarios out to $300K
    - Virginia review: scenarios out to $600K
- General and specific impacts considered with the reduction options:

General impacts of Tidal Reductions

Compromises to long term trend analyses

Harmful Algal Blooms of human health concern cannot be tracked

Leveraged programming is collateral consequence (e.g. VA-Phytoplankton lay offs)

Public ramifications: monitoring program integrity and transparency declining

Delayed assessments of progress

Greater uncertainty in assessments produces a greater costly to land managers to provide actions that achieve detectable changes in water quality.