

7CHESAPEAKE BAY PROGRAM
WATER QUALITY GOAL IMPLEMENTATION TEAM

MAY 17TH, 2010 CONFERENCE CALL MINUTES

SUMMARY OF DECISION AND ACTION ITEMS

ACTION: Jeff Sweeney will determine how credit is applied for septic pump-out.

ACTION: Gary Shenk will follow up with WQGIT on impact of proposed E3 definition of significant and non-significant facilities.

ISSUE: EPA will consider a future analysis of E3 by a third party audit as part of Phase II WIPs.

MINUTES

Announcements

- Water Quality Criteria Assessment Addendum should be published to pdf and posted on the CBPO website by the end of the week
- Settlement made between EPA and CBF on litigation

Revised Definition of the E3 Scenario – Jeff Sweeney

- Spoke with WQGIT on E3 definition multiple times
- Part of setting allocation at state basin level is comparison of E3 to No Action scenario
- Assumptions of NPS and PS controls are the same in all geographic areas and scales
- Can be applied to any year
- Changes highlighted in yellow from workgroup members
- CSO loads remaining after treatment added to WWTP load
- Increase of 50% to 55% is due to increased septic pumping requirements

ACTION: Jeff Sweeney will determine how credit is applied for septic pump-out.

- Stormwater workgroups has major problems with urban practices definitions and proposed edits
- Modified stormwater management definition to reduction implementation of infiltration because it was not technically feasible
- Proposed definition for impervious and pervious concentration, which was the same, is a compromise between Stormwater Workgroup and MDE memo.
- Avoiding land use conversions to prevent confusion
- Buffers in E3 have percentage divided between urban and agricultural sectors
- White paper on animal waste management from Agricultural Workgroup is attached starting on page 7 of the E3 definition
- For ammonia emissions, the estimated 15% reduction is not at limit of feasibility. Additional reduction could come from incorporating all fertilizer or further reductions outside of the watershed. 30% reduction in emissions would be best performance anywhere in the world, have to reduce to 15% because of estimate that half of ammonia deposition in watershed comes from outside of the Bay watershed, which we have not control over. E3 is actually 30% reduction in ammonia emission leading to a 15% reduction in ammonia deposition.
- Russ Perkinson, VA DCR, disagreed with the E3 definition of nursery management.
- Changes will not make a large difference in allocation of overall cap to state basins
- May make larger difference at TMDL segment-sheds

- With agreement, will re-run E3 and start looking at those loads in allocation
- Have not finalized E3 definition on stormwater. Considering the model results from changes in urban sector to determine benefit before workgroup makes final decision
- These definitions will not affect the basin-jurisdiction allocation approach.

ACTION: Gary Shenk will follow up with WQGIT on impact of proposed E3 definition of significant and non-significant facilities.

- The greater the amount of difference between No Action and E3 compared to other basins, the more likely to get a greater load reduction to achieve overall cap on state-basin scale
- Pennsylvania No Action loads are the lower than 1985 progress run loads likely due to aggressive definition of atmospheric deposition applied to No Action scenarios but not projected, designated as AA in spreadsheets.
- Alan Pollock, VA DEQ, and Ron Entringer, NY DEC, proposed that the E3 analysis have a third party audit as part of Phase II WIPs.

State Feedback:

WV – Did not have a chance to evaluate E3 prior to the call, cannot vote today. Not well represented on the workgroups. Will try to provide feedback by end of week.

PA – Object to definition of E3 because definition was not distributed with enough time to consult with workgroup members. Could review with one additional week.

NY – Object.

MD – Support No Action to E3 allocation approach. This is improvement over previous E3 scenarios. Should further consider efficiency of urban infiltration BMP. Also want to know if E3 definition of point sources is used in defining allocation.

VA – Accept for use for 2010. Want 3rd party review for consistency for continued use. Support MD recommendation for consideration of urban infiltration. Also want increased implementation for nursery management.

Non-attainment Diagnostics for Dissolved Oxygen in Open Water – Jeni Keisman

Slide 7

- Above calibration pink line means DO is higher in scenario than in calibration, below means DO is lower in scenario than in calibration
- Less response at higher DO values

Slide 8

- PIAMH, MOBPH in yellow very close to attainment at Tributary Strategy (TS) with correction in salinity values
- Gray segments in attainment at E3 are lowest priority for consideration
- Pink show obvious problems
- White may need further investigation, but non-attainment does decrease as load decreases

Slide 14

- Cell 10576 represents location of Gunpowder monitoring station
- Couldn't scenario single non-attainment monitoring event

Slide 15

- All dots between 8 and 10 close to oxygen saturation. Low response for E3 scenario

Slide 16

- GUNOH only in non-attainment in three year period include only non-attainment monitoring event
- Likely non-attainment in GUNOH driven by inconsistent point in monitoring data

MANMH

- Yellow and blue should be reversed - higher DO in 1985 than E3
- Chlorophyll a values in 1985 are high. Interaction can occur in shallow cell leading to low oxygen when chlorophyll levels decrease due to incomplete reflection of all interactions driving DO in single cell situation

WICMH

- Showing response, but not as much as expected
- Do have historical non-attainment, unlike GUNOH and MANMH

APPTF

- 1995 monitoring data is close to non-attainment depending on salinity

Next steps

- Using triage approach, determining proportional loads in 24-36 hours
- Will then determine primary reasons for non-attainment in groups 2 and 3 by next Monday
- Have multiple tools to correct the problems once the problem is definitively identifies
- Similar analysis will be done for chlorophyll and clarity

Updated Schedule for Getting to July 1st – Rich Batiuk

- July 1 draft allocation will be by basin-jurisdiction, but will also provide idea of additional local reductions needed for currently non-attaining segments
- EPA will turn around state-requested scenarios within a week if appropriate format is used or inform within two days in it cannot be done in one week
- PSC decided in April meeting to go ahead with July 1st allocation with un-modified 5.3 while making the modifications for Phase II WIPs

PA, VA – Not PSC decision, announcement by EPA at PSC meeting

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