

CHESAPEAKE BAY PROGRAM
WASTEWATER TREATMENT WORKGROUP
LOG OF ACTIONS & DECISIONS
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July 23rd, 2026

Meeting Materials

Decision: The WWTWG approved the [June 2026 WWTWG Meeting Minutes](#).

Decision: WWTWG approved via consent the [wastewater input assumptions](#) for the Phase 7 E3 Scenario for recommendation to the CWGT.

Action: Alex Gunnerson will follow up with Gopal Bhatt and Lew Linker to get more information to build out documentation and understanding around the BOD concentration and how it is used in the model.

- **Post-meeting note:** A [summary](#) of responses from the modeling team was shared with WWTWG on July 28th and WWTWG Co-Chairs recommended keeping the BOD definition at 3 mg/L.

Action: Jamie will present the E3 scenario to the CWGT at their August 24th meeting for feedback. WWTWG may hold a meeting August 27th if feedback is received that requires revisions.

June 25th, 2026

Meeting Materials

Decision: The WWTWG approved the [May 2026 WWTWG Meeting Minutes](#).

Action: The draft E3 scenario wastewater inputs for Phase 7 will be updated to add additional rationale for some of the assumptions.

Action: Approval of the E3 scenario wastewater inputs for Phase 7 will be sought at the July WWTWG meeting in order to present our recommendations to the Clean Water Goal Team at their August meeting.

Action: If you have any additional comments on scenario base year choice, please share them with WWTWG leadership to compile a summary of our group's varied considerations and recommendations.

Action: Please share feedback on wastewater considerations for the Reducing Excess Nitrogen, Phosphorus and Sediment Outcome part of the CWGT Management Strategy to Jeremy (hansonj@chesapeake.org) and Petra (Baldwin.Petra@epa.gov).

May 28th, 2026

Meeting Materials

Decision: The WWTWG approved the [February 2026 WWTWG Meeting Minutes](#).

Action: If you have any suggestions or requests for materials or information that would be helpful to have discussion within your jurisdiction about these E3 Scenario inputs or base year choice, please reach out to Auston and Alex.

Action: Please share initial thoughts on the wastewater E3 Scenario inputs and base year choice with Auston, Alex, Jamie, Justin and Petra by **Monday, June 15th**. WWTWG will discuss a draft recommendation based on these initial thoughts at the June 25th WWTWG meeting and plan to approve recommendations at the July 23rd WWTWG meeting in advance of the requested presentation to the CWGT at their August meeting.

February 26th, 2026

Meeting Materials

Decision: The WWTWG approved the [January 2026 WWTWG Meeting Minutes](#).

Action: The WWTWG will have the opportunity to review the Sewer/Septic backcast in mid-March to flag errors. Please share any questions or comments with Jackie Pickford (jpickford@chesapeakebay.net).

Action: Auston and CBPO Staff will put together a list of the ramifications of some of these decisions for E3 Scenarios, especially for the base year choice, to help guide source sector workgroups.

Action: If you have any further questions or comments on E3 Scenario development, please reach out to Auston Smith (Smith.Auston@epa.gov). The WWTWG will revisit this in our March and/or April meeting.

Decision: WWTWG chose NPDES ID for the Spatial Scale Standardization for optional inputs to the SSE estimation method.

Decision: WWTWG approved the use 95% gravity lines as default for non-coastal plains model units and 90% gravity lines as default for coastal plains model units in the SSE estimation method.

Decision: WWTWG chose to use a 10-year sum as the reporting time scale for rehabilitation in the SSE estimation method.

Decision: WWTWG approved an amended definition of Rehabilitation:

- For the purposes of estimating sanitary sewer exfiltration loads, rehabilitation is the systematic repair, renewal, or replacement of existing sanitary sewer pipes, joints, laterals, manholes, and appurtenant structures to restore hydraulic integrity and to prevent or reduce infiltration of groundwater into the system and unintended exchange of wastewater with surrounding soils, groundwater, or stormwater conveyances.

Action: If you plan to submit optional inputs for the SSE estimation for your jurisdiction, please send them to Alex (agunnerson@chesapeakebay.net) and Joseph (jdelesantro@chesapeakebay.net) via email by April 3, 2026.

January 22nd, 2026

Meeting Materials

Decision: The WWTWG approved the [September 2025 WWTWG Meeting Minutes](#).

Action: WWTWG will have the opportunity to review the Sewer Service Area between January 30th - February 13th. Jackie will share the updated layer for a red flag review for errors. No new or updated county or sewer data is being accepted. Please send any questions or comments to Jackie (jpickford@chesapeakebay.net).

Action: WWTWG will have the opportunity to review the Sewer/Septic backcast in early-mid March to flag errors as well.

Action: Joseph and Alex will make some figures or visualization to describe how the spatial representation for the SSE optional inputs would work.

Action: Joseph and Alex will do research to help propose a default value for percent gravity line to present at the next meeting. If you have any information or suggestions to help with that or general comments on either optional input, please reach out to Joseph (jdelesantro@chesapeakebay.net) and Alex (agunnerson@chesapeakebay.net).

Action: Please provide any comments on the below proposed definition for rehabilitation by Tuesday, February 10. WWTWG will be asked to approve this at the February meeting.

- Rehabilitation Draft Definition: “For the purposes of estimating sanitary sewer exfiltration loads, rehabilitation is the systematic repair, renewal, or replacement of existing sanitary sewer pipes, joints, and laterals to restore hydraulic integrity and to prevent or reduce infiltration of groundwater into the system and unintended exchange of wastewater with surrounding soils, groundwater, or stormwater conveyances.”

Action: If you plan to submit optional inputs for the SSE estimation for your jurisdiction, please send them to Alex and Joseph via email by April 3, 2026.

September 25th, 2025

Meeting Materials

Decision: The WWTWG approved the [July Meeting Minutes](#).

Decision: The WWTWG tentatively approved the preliminary CSS Data Layer for use in Phase 7 model development (pending votes from absent members).

Action: Petra will reach out to workgroup members absent today for their vote on the preliminary CSS Data Layer to finalize the approval.

Action: Please let Petra (baldwin.petra@epa.gov) and Rebecca (rrandom@usgs.gov) know if you expect to submit updated CSS data for inclusion in a second-round update of the CSS Data Layer for Phase 7. Any data must be received by January 23rd, 2026 in order to be used in calibrating the Phase 7 watershed model. If no new data is received, the layer approved today will be used.

Action: With no opposition from the workgroup, Jackie will pursue making these adjustments to the sewer/septic model and share an update at a future WWTWG meeting. The WWTWG will be asked to review these updates to accept them or revert to the methods approved in July.

Action: Jackie is incorporating sewer data from jurisdictions that missed the initial deadline. If you have any other data from counties for last minute additions, please send it to Jackie (jpickford@chesapeakebay.net) by Wednesday, October 15th, if possible.

July 24th, 2025

Meeting Materials

Decision: The WWTWG approved the [June Meeting Minutes](#).

Decision: WWTWG voting members approved (pending finalization for absent members via email **by EOD Friday August 15th**) the proposed method for estimate the baseline exfiltration and edge of stream delivery of nitrogen and phosphorus from sanitary sewers in the Phase 7 model.

Action: Optional inputs for the sanitary sewer exfiltration model need to be provided by Feb 2026 at the latest to be included in Phase 7.

Decision: WWTWG voting members approved (pending finalization for absent members via email **by EOD Friday August 15th**) the sanitary sewer area (SSA) map.

Action: Jackie Pickford will share updated data on septic counts, population on septic, and population on sewer from the sewer/septic model. *Completed.*

Decision (In Progress): The WWTWG did not reach consensus on the sewer/septic model given some concerns on the counts and population data. Please review the [updated data](#) shared by Jackie and provide, confirm, or update your vote on the sewer/septic model method by **EOD Friday August 15th**.

Decision: WWTWG members reached consensus (pending finalization for absent members via email **by EOD Friday August 15th**) to not pursue SSO loads in the Phase 7 model, allowing for continued discussion about inclusion of available data in certain multiple tributary models.

Action: The CSO Small Group will meet again with the modeling team on July 30th. *Completed.*

Action: Please provide any updates from your jurisdiction on the [documentation](#) of state's perspectives for not pursuing the Boat Pump Out BMP by **EOD Friday Aug 1st**. The workgroup will be asked to finalize this in the [Aug WWTWG meeting](#).

Post-meeting Decision: The August WWTWG meeting was canceled. The WWTWG approved via email the recommendation to able the Boat Pump-out BMP and the rationale outlined in the Rationale Summary Document.

June 26th, 2025

Meeting Materials

Decision: The WWTWG approved the [April 2025 Meeting Minutes](#).

Action: The CSO Small Group will meet with CBP modelers to discuss the base conditions and assumptions in the model. Petra will send out an email to schedule this for early-mid July. Jess Rigelman will share preliminary information in the meantime about CSO data in CAST.

Action: Joseph Delesantro, EPA ORISE/CBPO will determine unattenuated loads for exfiltration broken up by jurisdiction with the expected range for attenuation. If possible, he will also provide attenuated loads per jurisdiction before the July WWTWG meeting.

Action: The most recent update on the exfiltration method is provided [here](#). If you have any further comments on the phosphorus attenuation question or other aspects of the method, please email Joseph (jdelesantro@chesapeakebay.net) ASAP. The workgroup will be asked to make a decision on this in the July WWTWG meeting.

Action: Workgroup members tentatively proposed to not pursue SSO loads given the limited data available from jurisdictions and the small percentage of urban load from the data received so far. If you have any comments about SSOs, please reach out to Jamie (jmitchell@hrsdc.com), Joseph (jdelesantro@chesapeakebay.net), and Petra (Baldwin.Petra@epa.gov) ASAP. The workgroup will be asked to make a decision on whether or not to pursue SSOs at the July WWTWG meeting.

Action: Please provide any updates from your jurisdiction on the documentation of state's perspectives for not pursuing the Boat Pump Out BMP by **EOD Friday Aug 1st** to Ivy Ozmon (iozmon@hrpdcva.gov), HRPDC and Petra Baldwin (Baldwin.Petra@epa.gov), CRC. Additionally, if you have any feedback on the threshold that would require the group to revisit this BMP in the future, please include that in your update to the documentation. The workgroup will be asked to finalize this in the Aug WWTWG meeting.

May 20th, 2025

Meeting Materials | *Note: This was a joint meeting with the Urban Stormwater Workgroup.*

Decision: The USWG approved the [March USWG Meeting Minutes](#).

Action: If you're interested in being more involved with the exfiltration estimation method, or the SSO load method, email Joseph Delesantro (jdelesantro@chesapeakebay.net) and Petra Baldwin (Baldwin.Petra@epa.gov) or attend upcoming [WWTWG](#) meetings if you want to give input before it is presented to the WQGIT.

Action: If you are interested in following the decisions on land use aggregations and loading rates more closely, attend upcoming [Land Use Workgroup](#) and [Watershed Technical Workgroup](#) meetings.

Action: If you are interested in serving as a pilot for the draft vulnerability assessment, reach out to Krista Romita-Grocholski (kristarg@rand.org) and Michelle Miro (michelle_miro@rand.org). You can also help them by providing feedback on existing tools they have built (e.g. IDF Curve Tool and Climate Summaries). Please fill out their feedback survey [here](#).

Action: If you would like to support an effort to obtain dedicated funding for updates to MARISA tools, given the indefinite pause on Atlas 14 Vol 2, reach out to Krista Romita-Grocholski (kristarg@rand.org) and Norm Goulet (NGoulet@novaregion.org).

Action: CWP will continue to refine results from the SWMM model and incorporate feedback from the external review into the BMP Interpretation White Paper for Biochar as an Amendment to Existing Runoff Reduction Practices. The USWG will plan to vote on it in Fall 2025.

April 24th, 2025

Meeting Materials

Decision: The WWTWG approved the [March 2025 Meeting Minutes](#).

Decision: The WWTWG confirmed Andrew Malmgren, Lancaster Area Sewer Authority, Ivy Ozmon, HRPDC, and Bob Buglass, WSSC Water, as at-large members for a two-year term.

Decision: The WWTWG approved the proposed recommendations for the use of non-significant WWTP data for Phase 6 CAST and Phase 7 Development.

Action: Please provide any additional data that the Sanitary Sewer Exfiltration Small Group can use to evaluate the effectiveness of the exfiltration estimation method to Joseph Delesantro (jdelesantro@chesapeakebay.net), ORISE Fellow/CBPO. Joseph will share his progress at the next workgroup meeting.

Action: The SSO/Exfiltration Small Group will meet again in late May/Early June. Please complete the scheduling poll sent by Petra Baldwin (Baldwin.Petra@epa.gov), CRC if you would like to attend that meeting. If you would like to join the Small Group, please email Petra to be added.

Action: For jurisdictions that aren't VA and MD, please look at what SSO data is available in your jurisdiction and share it with Jamie Mitchell (jmitchell@hrsd.com), WWTWG Co-Chair and Petra Baldwin (Baldwin.Petra@epa.gov), CRC to help determine how to incorporate SSO loading into the Phase 7 model.

Action: For PA and MD, please continue to work with Justin Carl (justin.carl@alexrenew.com), AlexRenew and Ed Cronin (ecronin@brwncald.com), Brown & Caldwell to answer outstanding questions on CSOs, including how the waste load allocations were set for the original TMDL in your state and whether or not those allocations are sufficient at this time for loads at the treatment plant.

March 27th, 2025

Meeting Materials

Decision: The WWTWG approved the [January meeting minutes](#).

Action: Please provide any additional data to Joseph Delesantro (jdelesantro@chesapeakebay.net), ORISE Fellow/CBPO, on potential test counties to pursue for the Sanitary Sewer Exfiltration methodology.

Action: CSO and SSO/Exfiltration small groups will meet again in April. If you would like to be included in small group discussions moving forward, please contact Caroline Kleis (kleis.caroline@epa.gov), CRC.

Action: Please provide any updates from your jurisdiction on the documentation of state's perspectives for not pursuing the Boat Pump Out BMP to Ivy Ozmon (iozmon@hrpdcva.gov), HRPDC, and Caroline Kleis (Kleis.Caroline@epa.gov), CRC. Additionally, if you have any feedback on the threshold that would require the group to revisit this BMP in the future, please include that in your update to the documentation.

Action: The group will seek a vote on the proposed approach for the use of non-significant WWTP data for Phase 6 scenarios and Phase 7 Development at the April meeting.

January 23rd, 2025

Meeting Materials

Decision: The WWTWG approved the August 2024 and October 2024 meeting minutes.

Action: The February meeting was canceled given the conflict with the February 27th Management Board meeting. Caroline will follow up with the group about the March meeting date as it may need to be rescheduled to avoid additional conflicts.

Action: Joseph will send out an email to the group with the specific information he is requesting regarding exfiltration data. If you have any additional information or feedback, please email Joseph (jdelesantro@chesapeakebay.net).

Action: Caroline will send a poll around to members of the CSO and SSO/Exfiltration small groups with potential times to meet as small groups in February or March and schedule meeting times that work best for each group. If you'd like to join either of these small group meetings, please email Caroline (Kleis.Caroline@epa.gov)

Action: Ivy will add Virginia's perspectives to her documentation for not pursuing the boat pump out BMP and will share the final document with Caroline to distribute to the group. The group will then decide whether more formal documentation is necessary.

Action: Members with any information or points of contacts for biosolids work should email Emily Majcher, USGS (emajcher@usgs.gov).

Action: Once Emily compiles available information, she will bring it back to the group to see if it matches where workgroup members would expect biosolids to be applied.

October 30th, 2024

Meeting Materials

Action: Justin will follow up with the group regarding the request for CSO data.

Action: Jackie will coordinate with Sushanth to inform the workgroup when the web viewer for septic/MS4 areas is available.

Action: Jamie will follow up with jurisdictional members to solicit substantive recommendations regarding the SSO issue.

Action: Jamie will follow up with VA regarding TSS and will see if anyone else has things to add on their jurisdictions.

August 6th, 2024

Meeting Materials

Decision: The WWTWG approved the May Meeting Minutes.

Action: Jurisdictions should follow up with WWTWG leadership regarding TSS discharges.

Action: Bob Buglass will email Jamie regarding WSSC discharges.

Action: WWTWG members with information on groundwater data should reach out to Joseph Delesantro.

May 7th, 2024

Meeting Materials

Decision: The WWTWG approved the [February Meeting Minutes](#).

Action: Please read the workgroup's mission statement and share any comments with Jamie, Justin, Ashley, and Sushanth.

Action: If you have any questions about the Boat Pump-out BMP report, please email Sushanth and Ashley who will compile questions to be sent to Lew.

Action: Justin Carl will share Alexandria's annual report and flow data table for reference.

Action: Workgroup members should inquire within their jurisdictions before the August WWTWG meeting to find out what data is available for CSOs in their communities that could be utilized for updating CSO loads in the Phase 7 model.

Action: If you have any questions about the sanitary sewer exfiltration proposal, please email Joseph Delesantro (jdelesantro@chesapeakebay.net).

Action: The background information on the Small Group topics will be shared with members. Please review it as you consider which groups you would like to be on. WWTWG leadership will follow up for organizing the list of volunteers and first meetings of these small groups.

February 6th, 2024

Meeting Materials | *Note: This was the first meeting of the WWTWG since 2021.*

Decision: The WWTWG confirmed their 2024 - 2025 at-large membership via poll.

Action: Members should contact Gary Shenk (ghsenk@chesapeakebay.net) and/or Joseph Delasantro (jdelesantro@chesapeakebay.net) with any questions about the watershed model, model documentation, or technical questions about their presentations.

Action: Jamie Mitchell and Justin Carl (Co-Chairs) will consolidate the feedback from today's meeting and develop a path forward for the group on addressing priority topics.

November 2nd, 2021

Meeting Materials

Action: Please provide any additional feedback on mapped sewer service areas and the septic connection BMP to Vanessa Van Note (vannote.vanessa@epa.gov).

Action: Members are encouraged to reach out to Matt Reis (Matt.Ries@dcwater.com) and Jackie Pickford (pickford.jacqueline@epa.gov) with any additional feedback on potential agenda topics and future meetings.