



**AGENDA**  
**Peconic Estuary Solute Transport Model Meeting**  
**Wednesday, August 21st, 2019**  
**1:30pm – 3:30pm**

Suffolk County Community College Culinary Arts and Hospitality Center- Multipurpose room  
20 East Main Street Riverhead, NY 11901

[Join Webex meeting](#)

Meeting number (access code): 647 784 994

Meeting password: AKuMnfm3

Join by phone:

[1-844-633-8697](tel:1-844-633-8697) US Toll Free

[1-518-549-0500](tel:1-518-549-0500) Local

- 1:30 PM Welcome & Introductions – Sarah Schaefer (PEP Program Coordinator)
- 1:35 PM Peconic Estuary Solute Transport Model Review and Update  
[Click here](#) to review Solute Transport Model project information and past meeting agendas and attendance.
- Overview of the project and model development- Don Walter (USGS, Hydrologist)
  - Update on development of historical nitrogen source terms and land use data collection- Jack Monti (USGS, Hydrologist)
- 2:00 PM Discussion
- Attenuation rates:
- Review attenuation rates
  - Discuss and provide feedback on attenuation rates
- Scenarios:
- **We ask that you review the DRAFT Peconic Estuary Solute Transport Model scenario list** and provide any revisions/comments at the Solute Transport Model meeting on August 21<sup>st</sup> or before the meeting.
  - Recommendations from the group for other scenarios.
- 3:25 PM Next Steps and Meetings – Sarah Schaefer
- Next PEP Solute Transport Model Meeting  
November 20th, 2019 1:30pm to 3:30pm
- 3:30 PM Adjourn

## DRAFT Peconic Estuary Solute Transport Model Scenario List

The [USGS-PEP Solute Transport Modeling Project](#) is developing a subregional solute transport model of the Peconic Estuary ground watershed to assess the time-varying discharge of nitrogen into fresh and coastal waters within the Peconic Estuary watershed. Once the model is complete it can then be applied to run a limited set of scenarios to estimate resulting nitrogen loading rates over time. These tools will provide valuable insights into how nitrogen discharge likely will change in response to nitrogen mitigation efforts within the watershed to guide local, state and regional management actions.

The Peconic Estuary Program wants to ensure that our partners can effectively use the PE Solute Transport Model to guide nitrogen mitigation efforts and wants to make sure that the set of scenarios that the model runs are representative of local, state and regional management actions. Our stakeholders discussed and provided comment on a list of potential scenarios at the November 2018 and May 2019 PE Solute Transport Model meetings.

**We ask that you review the below DRAFT Peconic Estuary Solute Transport Model scenario list** and provide any revisions/comments at the PE Solute Transport Model meeting on August 21<sup>st</sup>, or before the meeting to Sarah Schaefer via email at [sarah.schaefer@suffolkcountyny.gov](mailto:sarah.schaefer@suffolkcountyny.gov) or phone 631-852-5806.

Scenarios reference the [Draft Suffolk County Subwatersheds Wastewater Plan](#) (SWP).

Scenario	Description	Notes
1	No further nitrogen loading to the watershed	
2	No nitrogen load reduction in watershed	
3	The reduction in atmospheric deposition of nitrogen BUT no on the ground nitrogen load reduction in watershed	
4	Potential Future/full build-out in watershed at the current allowable density	<u>Detail from SWP:</u> For purposes of the SCSWP, Suffolk County Department of Economic Development and Planning developed the conditions used for potential future build-out which were based on the more stringent of Suffolk County Sanitary Code Article 6 or local zoning for all: Vacant Parcels without development restrictions, Agricultural parcels without development restrictions, and Subdividable low density residential parcels.
5	Potential mitigating Town actions	i.e. Increasing STP capacity/ sewer expansion projects, STP water reuse projects, Upzoning from 0.5 acres to 1 acre., Land preservation and easements, etc.

6	Full Implementation of Wastewater Treatment upgrades (I/A OWTS, sewerage and clustering) in 6 Peconic Estuary Management Areas	<u>Detail from SWP:</u> 6 Peconic Estuary Management Areas- Peconic Estuary Restoration and Protection Area I, II and II, Sag Harbor Cove and Connected Creeks, West Neck Bay and Creek and Menantic Creek, & Peconic Estuary Restoration and Protection Area IV.
7	Full Implementation of Proposed Sewerage Proposals in Peconic Estuary Subwatersheds	<u>Detail from SWP:</u> Existing Sewer Proposals- Riverside Revitalization Project, Springs School District sewer project, Downtown Montauk Sewer project
8	Full Implementation of Wastewater Treatment upgrades in 0-2 year groundwater contributing area	<u>Detail from SWP:</u> 0-2 year groundwater contributing area in all priority areas ranking 1, 2, 3, 4
9	Full Implementation of Wastewater Treatment upgrades in 0-2 year groundwater contributing area and Phase II area	<u>Detail from SWP:</u> Phase II area- Surface water and groundwater priority area 1.
10	Full Implementation of Wastewater Treatment upgrades in Phase III area	<u>Detail from SWP:</u> Phase III area- Surface water priority area 2-4 and Groundwater priority area 2. 2-25/50 Year Contributing Area.
11	Implementation of Peconic Estuary watershed Potential Sewer Expansion Projects	<u>Detail from SWP:</u> Sag Harbor Cove & Riverhead Sewer District.
12	Implementation of Adaptive Management such as Shallow Narrow Drainfields, Permeable Reactive Barriers, Hydromodifications, Nutrient Bioextraction	
13	On the ground Fertilizer Management Actions in watershed and implementation of fertilizer best management actions in the watershed	
14	Model what wastewater management actions are needed to meet groundwater quality and quantity protection goals	
*Climate change scenarios can be a subset to each scenario		i.e. draught, increased intensity of precipitation events, rising groundwater levels.



SIGN-IN SHEET:  
 PEP Solute Transport Model Meeting  
 SCCC Culinary Arts and Hospitality Center  
 20 East Main St.  
 Riverhead, NY 11901  
 August 21, 2019  
 1PM

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