



## **State Water Plan Update Delaware Water Resources Regional Committee Meeting**

October 12, 2021  
9:00 a.m. - 12:00 p.m.  
Virtual Meeting via Microsoft Teams

### **Committee Members in Attendance:**

Kelly Anderson	James McCarthy
Ed Boscola	Susan Myerov
Mark Bowen	Mark Nemitz
Joseph Buczynski	Chad Pindar
Carol Collier	Jane Rowan
Andrew Frankenfield	Bill Royer
Kate Harper	Peter Rykard
Irvil Kear	Eliza Walbridge
Gary Kribbs	Nathan Walker

### **Committee Members Not in Attendance:**

Becky Bradley	Elaine Paul Schaefer
Patrice Dume	Christopher Uhland
Christopher Norris	

### **Others in Attendance:**

Kristina Peacock-Jones - DEP	Monica Gould - Strategic Consulting Partners
Mark Matlock - DEP	Bob Whitmore - Strategic Consulting Partners
Mike Hill - DEP	
James Horton – DEP	
Dave Jostenski – DEP	
Brian Chalfant – DEP	

### **Visitors:**

Janet Creegan	Abdolhossain Liaghat
Kristina Heaney	Jerry Stiles
Tyler Hintz	Steve Tambini – DRBC
Shane Kleiner	Dean
Dian Campbell	

### **Welcome**

Mark Matlock, DEP, welcomed everyone to the meeting, explained the meeting was being recorded, and provided helpful hints on the use of the technology. Chad Pindar,

Committee Chair, welcomed all committee members to the meeting. Attendance was recorded through the online participants' log.

### **Minutes**

The minutes of the July 13, 2021, meeting was reviewed. Irvil Kear suggested to remove the word **that** in the eighth line of the second priority. Mark Matlock added he received an email to add to the minutes there was a unanimous vote to approve extreme rainfall preparedness in the Delaware region. Kate Harper added that on page 5 in the section of how the key messages of the state plan should be communicated, that County Planning Commissions was discussed but not added to the list and should be.

The minutes with the corrections were approved on a Irvil Kear / Kate Harper motion. Susan Myerov abstained because she was not present at the meeting.

### **Public Comment**

Chair Pindar opened the meeting for public comment. An opportunity to express comments verbally or in the chat box was offered. There was no public comment. Mark Matlock added there was no one attending from the public at the DEP meeting room in Room 105 of the Rachel Carson State Office Building in Harrisburg.

### **DEP Update**

Kristina Peacock Jones provided an update of what DEP is working on in regard to the State Water Plan Update.

The USGS Water Use Data and Research (WUDR) grant data sharing projects are progressing well. The project involving Chapter 110 data for moving water use registration forms from paper to online is complete and has been deployed. The project involving data sharing between agencies (SRBC, DRBC, and USGS) is in the testing phase. The project should be fully operational during the fourth quarter of this year.

The three draft Critical Area Resource Plans (CARPs) continue to be under development and the drafts are progressing nicely. Two of those CARPs are for the Ohio Regional Committee and one is for the Potomac Regional Committee.

The State Water Plan Atlas from 2009 is being developed into a Story Map as a Digital Atlas. The Digital Atlas should be ready in the first half of 2022.

The Power BI report summarizing water use data is public and on the DEP website. The link to the Power BI report was distributed to committee members by email.

The eighth Statewide Committee meeting is scheduled for November 17, 2021.

### **Story Map**

Mark Matlock shared a draft of the Story Map of the state water plan that is in development. DEP is still developing content for the Story Map and will be adding additional sections. The Story Map will be interactive and is not available for public view

at this point. Mark can provide a text version for committee members to review. The Story Map will include the following sections:

- Overview of the state water plan
- Tab for the state committee
- Tab for legislative priorities
- Tab for each regional committee
- Each regional committee will have the following sections and content relative to the region
  - Introduction to the region
  - Review of the specific regional priorities
  - Region's uniqueness and characteristics
  - Stormwater and flood management
  - Climate change adaptation and mitigation
  - Notable projects with an interactive map

A discussion followed on the Story Map content and additional comments were added in the chat function.

- Create a link to the DRBC website.
- Work into the introduction additional context about the Delaware region
- Steve Tambini provided DRBC background facts and additional information for the introduction and region's uniqueness sections
- The importance of water quantity and availability of water to the dense population in the Delaware region.
- Suggested that a comment be added to the introduction that the large population is going to increase the strain on the availability of water.
- Delaware River basin provides water to 5 million people, 43% of the Commonwealth's population, and serves 4% of the entire U.S. population
- Delaware water resources are linked to three other states and management of the water is under Supreme Court decree.
- Rework the introduction text and suggestions for changes to the other sections.
- Add links to other resources.
- Add more pictures of the Delaware Valley if possible.
- In sea level rise discussion suggest adding potential impacts to natural resources - critical spawning areas, freshwater tidal marshes, etc.
- The DRB should include a reference that we are in one of ~26 EPA National Estuary Program areas.
- We have an updated CCMP guiding a lot of water resource/conservation efforts.
- In the Delaware Basin, could we mention the huge significance of our port to water resources? The presence and significance of the port (the metro Phila port is the largest freshwater port in the world) carries many benefits to the Commonwealth, but also challenges to the environment.
- Yes, the marine aspects as well as the estuary could be mentioned also. Includes significant Essential Fish Habitat for the commercial marine fishery in the Atlantic Ocean

- Current management of the river (DRBC, Rivermaster (USGS), various reservoirs throughout the watershed) is very unique and the drinking water produced by the watershed is depended upon by millions and millions of people outside of the Commonwealth--and endangered species within the river.
- We are totally addressing quality and quantity by stating what the key problems are: lack of regional planning and connections between land cover/land use and water resources.
- Will there be an online storybook AND a print version? If so, do they have a different focus?
- Can Mark and DRBC work together to revise the introduction, then share with the whole committee?
- Should stormwater permitting be based on a watershed basis?
- Consider developing models and maps of future water use and consumption within the DRB.
- Add more nice pictures of the Delaware Valley and not just pictures of flooding.
- I like the way the story map is organized as a public engagement tool. Appreciate the opportunity to review DRB text to highlight its uniqueness.
- Nicely done, PADEP really appreciate your efforts--the story maps look great.
- Thank you, we really think this is going to be a super useful tool for education and outreach. We hope to take full advantage of it as an online tool that can offer information in an a la carte format where folks can follow links to learn more.
- I love the “what can I do tab” idea.
- The story map is a great idea! I like how it is accessible to many different kinds of users.
- We could also have a picture of badly done land use up against a stream to go with our priorities - or a graphic of conservation design.

Mark will revise the draft based on the comments provided and share the revised text with committee members. He is asking for committee member’s feedback and comments within the next three to four weeks. The Story Map will be revised based on the feedback and two weeks prior to the January committee meeting.

### **Logic Model**

James Horton, DEP staff, shared a template for a logic model that can be used to make the region’s priorities actionable and measurable. A logic model is a picture that links the long term and short-term outcomes, or changes and results you hope to achieve, with the program activities and resources available to move the priorities forward.

The logic model template has the following components:

- Resources
- Activities
- Outputs
- Intermediate outcomes
- Long term outcomes

Committee members developed comments and ideas to be included in a logic model for each of their two priorities and additional comments were included in the chat function. The draft logic models developed at the meeting are included at the end of the minutes.

- [https://www.state.nj.us/drbc/about/advisory/WMAC\\_index.html](https://www.state.nj.us/drbc/about/advisory/WMAC_index.html)
- [Projections of the Public Water Supply Sector in the DRB](#) - Michael Thompson, DRBC (pdf)
- [Projections of Power Generation Water Sector Withdrawals in the Delaware River Basin](#) - DRBC Water Resource Engineer Michael Thompson, P.E. (pdf)
- [DRB Industry Sector Water Withdrawal Projections](#) - Michael Thompson, DRBC (pdf)
- Delaware River Basin Commission / Water Management Advisory Committee (WMAC)
- Water Management Advisory Committee, WMAC
- Include metropolitan planning agencies, such as the Delaware Valley Regional Planning Commission (DVRPC).
- <https://water.phila.gov/stormwater/incentives/development/>
- Development Incentives – Stormwater
- The Philadelphia Water Department offers incentives to property owners, project managers, and developers to keep and increase stormwater management on their property for lower costs.
- Seems there are regulations and planning opportunities in process that will affect water resources and land planning that lack funding and approvals--should not we be adamant that the funding and updating of these plans be a first step? We can write a lot in a plan, but it is the regulations and plans that affect development and restoration that will make the difference.

### **Next Steps**

Chair Pindar thanked all committee members for their attendance, participation, and ideas.

Mark Matlock, DEP staff, provided an overview of the Committee's future work.

- Delaware Regional Committee meetings are scheduled for the following dates in 2022
  - January 11
  - April 12
  - October 11
  - A July meeting is not scheduled at this time
- Mark will send a survey to Committee members to obtain feedback on having in-person or virtual meetings in 2022 and scheduling a July meeting.

The meeting was adjourned at 12:00 on a Jane Rowan / Eliza Walbridge motion.



# State Water Plan Logic Model (Provisional Draft)

Delaware Region

**Goal:** Strengthen the link between land use and water resources management.

			Outcomes		
Resources	Activities	Outputs	Immediate (<1 Year)	Inter-Plan (2 – 3 Years)	Ongoing Plans (4 - 5 Years)
<ul style="list-style-type: none"> <li>• Power BI</li> <li>• SWP Section</li> <li>• WUDS</li> <li>• Stormwater Management Incentive Grant program (Philadelphia)</li> <li>• Local Planning Agencies</li> <li>• DRBC Committee on climate change</li> <li>• PEMA</li> <li>• FEMA</li> <li>• DCED</li> <li>• Watershed Organizations</li> <li>• Pennsylvania Association for Watersheds and Rivers</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Develop plan to distribute this educational materials.</li> <li>• Websites, emails, letters, reports?</li> <li>• Education through local gov't associations, township supervisors, township commissioners, conservation districts, county agencies.</li> <li>• DEP educates watershed associations to make them aware of funding priorities. Grant Center/Growing Greener coordinating with Watershed Associations.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Grant program (varied incentive structure) to offer private property owners to encourage redevelopment/retrofitting</li> <li>• Address/consider updating of act 167 or applying MS4 to a regional approach</li> <li>• Funding mechanism for watershed organizations</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Water withdrawal data and sharing available to public. (Power BI)</li> <li>• Regular communication channels established between agencies and public.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Map of unused and/or unmanaged by BMP impervious area by municipality.</li> <li>• Funding for Act 167 plans</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Stakeholders/public are aware of and educated on the challenges of climate change for the specific region.</li> <li>• Updated Act 167 plans that have lapsed to include water quality and quantity</li> <li>• Reduction of impervious cover per county to a set objective.</li> </ul>

# State Water Plan Logic Model (Provisional Draft)

Delaware

**Goal:** Regional planning and land use coordination and collaboration

Goal: Regional planning and land use coordination and collaboration			Outcomes		
Resources	Activities	Outputs	Immediate (<1 Year)	Inter-Plan (2 – 3 Years)	Ongoing Plans (4 - 5 Years)
<ul style="list-style-type: none"> <li>• DEP</li> <li>• Local Planning Agencies</li> <li>• DCED</li> <li>• DRBC technical report on basin and water availability (last 30 years of analysis) (coming soon), beginning to list successful programs and data sharing/analysis with projections to 2060.</li> <li>• DRBC</li> <li>• Conservation Commissions in Massachusetts (avenue for research)</li> <li>• Environmental Advisory Councils</li> <li>• Watershed Organizations</li> <li>• Virginia Riparian Agencies for Chesapeake Bay (Research)</li> <li>• Pennsylvania Chapter of American Planning Association (APA) (Has some example ordinances)</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• DEP/DCED seeks out local planning orgs for examples of intergovernmental cooperative assessments and ideal land use ordinances.</li> <li>• Examine the powers and capabilities of Environmental Councils, Watershed Organizations etc.</li> <li>• Create list of successful programs that may need continued funding.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Library:</li> <li>• Model Land Use ordinances that display or show how integrated land use or water resource management planning is done.</li> <li>• Intergovernmental Cooperative Agreements</li> <li>• Developing models and maps that counties or municipalities can use when more impervious surfaces are proposed. So, the impacts of such development can be clearly seen.</li> <li>• List of successful programs in need of funding</li> </ul>	<ul style="list-style-type: none"> <li>• Regulatory agencies, conservation districts, DRBC, DEP, update their policies and programs to reflect regional planning and land use priorities reflected by the committee.</li> <li>• Regulatory agencies include Climate Resiliency (flooding, drought etc) into their allocation permitting etc. Account for both drought and wet weather.</li> <li>• Local oversight for planning/commenting on projects using Advisory Councils, Watershed Organizations etc.</li> <li>• Update current plans and ordinances to be more in keeping with IWRM principles. Not ignoring the prospect of redevelopment.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Act 167 Plans funded – can be leveraged toward redevelopment. Some plans have redevelopment criteria.</li> <li>• Introducing IWRM legislation looking at watersheds not just stormwater but flooding, wastewater etc.</li> <li>• Reinvigorate/examine source water protection plans (potentially goal 1). Some of these plans were implemented some time ago and may need assessed.</li> <li>• Intergovernmental cooperative agreements continue to be developed.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Planning accomplished on a watershed basis to be implemented locally.</li> <li>• DEP water withdrawal, wastewater and MS4 Permitting done on a watershed basis. DEP must consider the overall watershed when issuing a permit.</li> <li>• Continue to manage and invest in programs that are successful.</li> <li>• Encourage passing integrated land use planning and water resource management</li> <li>•</li> </ul>