

Agenda Coast Smart Council Quarter 4 Meeting November 30 | 12:30pm - 1:30pm

Meeting Link: <https://meet.google.com/prd-avek-qjo>
Or dial:(US) +1 347-699-2011 PIN: 446 880 227#

Chair: Secretary of Natural Resources, Jeannie Haddaway-Riccio
Coordinator: Sarah Lane, sarah.lane@maryland.gov

ACTION ITEMS:

All: The Watershed TAG's first meeting is next week and there is room for anyone that may be interested in joining. Contact Dave Guignet (dave.guignet@maryland.gov) or Jennifer Smith (jenniferm.smith@maryland.gov) with MDE.

HIGHLIGHTS:

The 2023 dates for the Coast Smart Council will be from 12:30-1:30pm on:
February 22, 2023
May 31, 2023
August 30, 2023
November 29, 2023

- I. Welcome, Introductions & Review of Agenda** **12:30 - 12:35**
Secretary Haddaway-Riccio (DNR), will open the meeting, call roll and review the agenda.
- a. Action: Member approval of September 7, 2022 Meeting Minutes via vote
 - b. Materials: [September 7, 2022 draft meeting notes](#)

Matt Fleming, Asst Secretary, MD DNR, is filling in for Sec Haddaway-Riccio, called meeting to order

Christine Conn, MD DNR, took roll call

September meeting min - Chuck Boyd motion to approve, second by Spyridon Papadimas; minutes approved

Announcements:

The Biden/Harris administration issued a [Roadmap](#) on nature-based solutions “to fight climate change, strengthen communities and support local economies.”

MDE released MCCC 2022 [annual report](#)

II. **Advancing Stormwater Resiliency in Maryland (A-StoRM)**

12:35 - 1:05

Urban flooding is a growing issue in Maryland. The increasing number of extreme rainfall events that produce intense precipitation will continue to lead to more urban flooding events unless steps are taken to mitigate their impacts. The Maryland General Assembly recognized the need to address urban flooding with the passing of the [2021 Senate Bill 227](#). The Bill tasks the Maryland Department of the Environment (MDE) with developing plans to evaluate current flooding risks and update regulations to improve urban stormwater flood management.

Jennifer Smith from MDE will provide a brief overview of SB227, introduction to the A-StoRM [report](#) and MDE's [approach](#) (key components, stakeholder group and TAGs), as well as an update on its implementation.

- c. **Action:** Council members will discuss how A-StoRM intersects with the Councils charge.
- d. **Materials:** Advancing Stormwater Resiliency in Maryland ppt

Notes:

Jennifer Smith, MDE, presented on A-StoRM, which is a system that considers the nexus between stormwater management and flooding; more than a tool or report.
Started in 2021 with SB226/HB 295

The Problem: Rainfall Intensity

High intensity/short duration. Recurrence frequency of these storms is higher than current stormwater design standards.

Developing GIS layers to categorize flash flood events in MD utilizing NOAA data. Another data set includes flood events within the national fire incident reporting system (captures water rescues conducted by fire depts). Third data set is county level drainage complaints Cassworks - Storm drain flooding, other.

The Problem: stormwater conveyance system.

Existing capacity is undersized, aging, need repair, clogged. Cannot handle flashy storms. No state law that dictates conveyance system design (location, sizing) or maintenance of conveyance systems - dictated by local jurisdictions. Except state roads and highways under MDOTs criteria, though their criteria not in-line with County.

The Problem: Inconsistent SW quantity management requirements

Local jurisdictions require different quantity management

The Problem: data sharing and coordination

Between adjacent communities and/or counties on SWM infrastructure data; lack of standards for collecting and sharing conveyance info. Need to develop standards for data collection and dissemination.

The Problem Summary:

A-StoRM is a watershed approach to help resolve these problems. Need holistic approach to data sharing and collaboration; need research, science, data

The Solution: Watershed Studies

Need to share the info from the local studies and apply to other watersheds.

State hazard mitigation plan recognizes watershed studies; helps direct FEMA funding to those areas.

Next Steps: Stormwater Management Regulation Updates

1. Update MD's Precipitation Data
 - a. NOAA updating Atlas 14 with Atlas 15 and MD plans to incorporate
2. Update water quality treatment standards: Environmental Site Design (ESD) to the Maximum Extent Practicable (MEP) Standards
 - a. For both new development and re-development
 - b. Increase required minimum ESD volume by 10% from managing runoff from 2.7 inches of rainfall to 3.0 inches. Based on RAND Corp future projected IDF curves
3. Developing watershed approach to address flooding

IDF curve report: <https://www.rand.org/pubs/tools/TLA1365-1.html>

Key take-away: To solve the problem we need to collaborate across all the state agencies and federal government. Data collection and sharing.

Discussion:

Dave Nemazie - How frequently is it an issue that there are different design standards between MDOT, federal, other state and local govt applicants for permits?

Jennifer Smith - Happens often. Ex - increasing culvert sizes can cause downstream flooding

Dave Nemazie - Long range planning associated with more intense storms. How far out should be prepare/design? Based on 10 year plan or 50 year plan?

Jennifer - projection goes up to 2100. Infrastructure lifespan may not be what to design to b/c dealing with new factors thus watershed studies critical. Need to know the limitations of our systems to know what we should design for.

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Matt Fleming: Kudos to MDE on marrying the focus of climate and stormwater. Any recommendations or requests of the Coast Smart Council? Any opportunities to help with collaboration.

Jennifer Smith: WE started with hosting a workshop in early Nov at MDE with various state agencies. Sasha Land mentioned [MyCoast](#) during that workshop and will pursue the utilization of

the tool for non-tidal flooding. This collaboration will also include Kate Vogel to document non-tidal flooding as she manages the application.

HIGHLIGHT: Jennifer Smith: Could the Coast Smart Council elevate a request to the State House for continuation of the Maryland Resiliency Partnership, as well as maybe provide some direction or an official charge for the group.

III. Public Comment, Updates, & Next Steps

1:05 - 1:30p

Christine Conn: Opened up for public comment and updates. None offered.

Next steps - ARWG looking to develop a resilience toolkit

Coast Smart Council - in 2023 pursue recommendations to move forward with the ideas presented today

Workplan items/role for the CSC:

Matt Fleming encourages CSC to attend the ARWG meeting at 2pm as it will cover the Next Generation Adaptation Plan. CSC could drive some of these ideas forward.

Assessment of success of CSC on their issues/recommendations - updated citing and design criteria, expanded work to highways - evaluate how we are doing and where we would like to go.

Dave Guignet - update 100 plus 3 published on MDE floodmaps
Let Dave know if you need a download of that dataset

Next Meeting: February 22, 2023

Attendance:

Members:

Jason Wardrup, DBM
Dave Guignet, MDE proxy for Matt Rowe
Spyros Papadimas, DGS
Chuck Boyd, MDP
Shawn Kiernan, MDOT proxy for Sandy Hertz
Tim LaValle, Commerce proxy for John Papavasiliou
Nick Kelly, DNR/CAC proxy for Kate Charbonneau
Vanessa Calaban, MDEM sitting in
Dave Nemazie, UMCES proxy for Peter Goodwin
Chris Elcock, GGWO Architects
Matt Fleming (proxy for Sec. Haddaway-Riccio)

Non-Members:

MARYLAND COAST SMART COUNCIL

Secretary Jeannie Haddaway-Riccio, Chair
Maryland Department of Natural Resources

Bill Neville, Christine Burns, Christine Conn, Amanda Small -DNR-, Dylan M. Taillie -DNR-, Emily Vainieri, Jennifer Raulin -DNR-, Jennifer Smith -MDE-, Jeremy D Baker DLS, Kate McClure, Larry Trout, Sasha Land, , Charlotte Shearin, Kate M. Vogel -DNR-, Rich Ortt, Sandi Olek, Nell Ziehl