What's in Your Pond?

TECHNICAL ISSUES

October 14, 2020

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Raymond P Bahr
Deputy Program Manager
Sediment, Stormwater, and Dam Safety Program

Housekeeping

- The Chat function will be used throughout today's session
- Registration - sign in using the Roll Call link in Chat

- The College of Southern Maryland is providing CEUs/PDHs for all three sessions.
  - A link to your certificate will be available at the end of each session.
  - You have to be registered and attend for the entire program to get CEUs
- Participation in these sessions will satisfy your jurisdiction's stormwater management obligations under the State's triennial program review
- If you get bumped, lose connectivity, or your screen freezes, leave and reenter the session

A Dam Good Story

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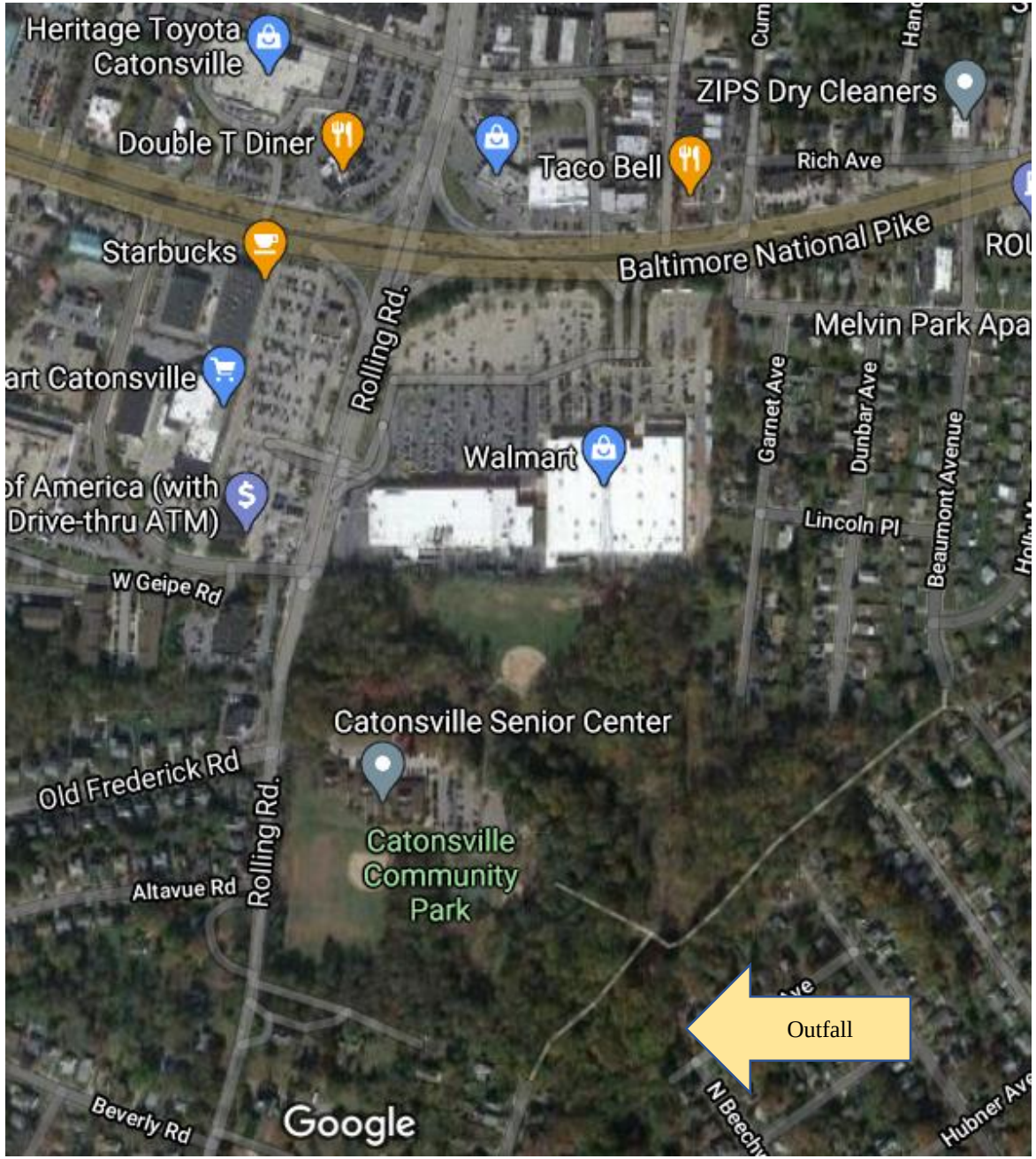

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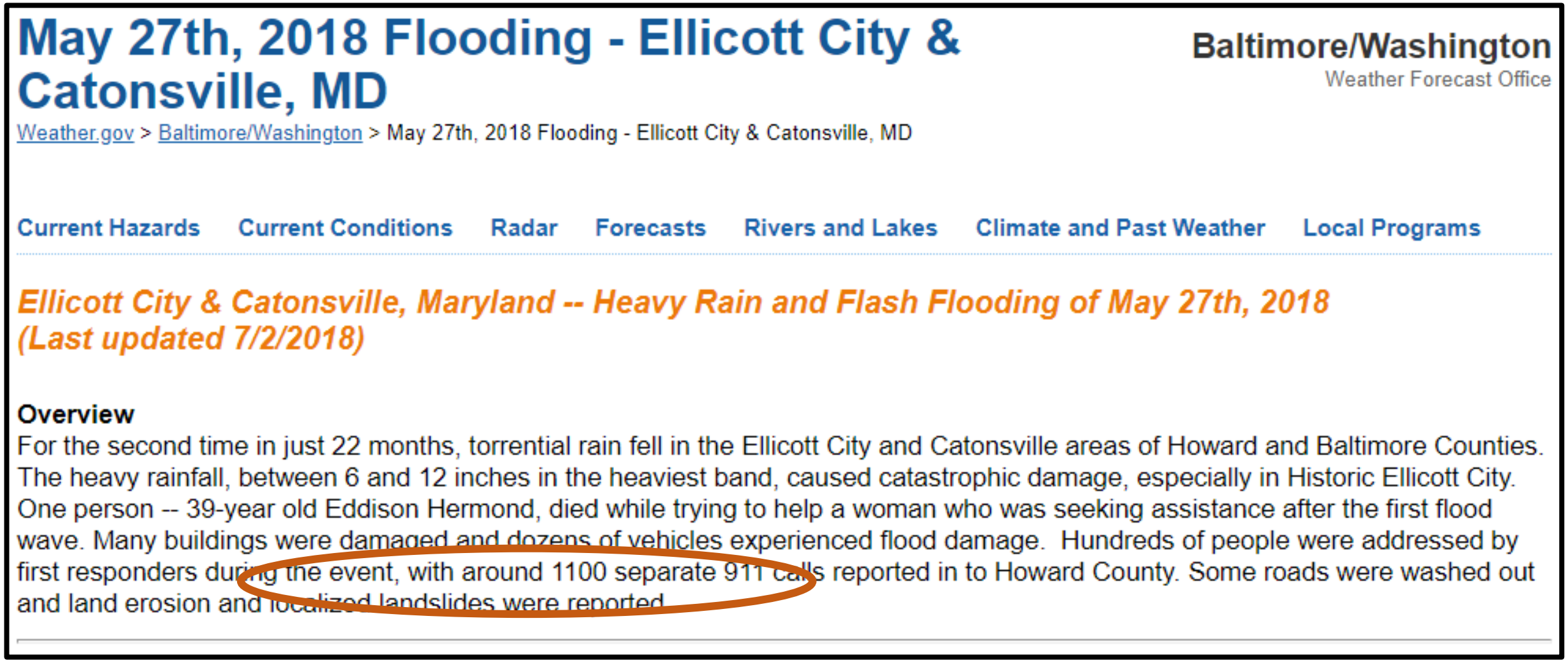

May 27th, 2018 Flooding - Ellicott City & Catonsville, MD

Baltimore/Washington
Weather Forecast Office

Weather.gov > Baltimore/Washington > May 27th, 2018 Flooding - Ellicott City & Catonsville, MD

Current Hazards | Current Conditions | Radar | Forecasts | Rivers and Lakes | Climate and Past Weather | Local Programs

Ellicott City & Catonsville, Maryland -- Heavy Rain and Flash Flooding of May 27th, 2018 (Last updated 7/2/2018)

Overview

For the second time in just 22 months, torrential rain fell in the Ellicott City and Catonsville areas of Howard and Baltimore Counties. The heavy rainfall, between 6 and 12 inches in the heaviest band, caused catastrophic damage, especially in Historic Ellicott City. One person -- 39-year old Eddison Hermond, died while trying to help a woman who was seeking assistance after the first flood wave. Many buildings were damaged and dozens of vehicles experienced flood damage. Hundreds of people were addressed by first responders during the event, with around 1100 separate 911 calls reported in to Howard County. Some roads were washed out and land erosion and localized landslides were reported.

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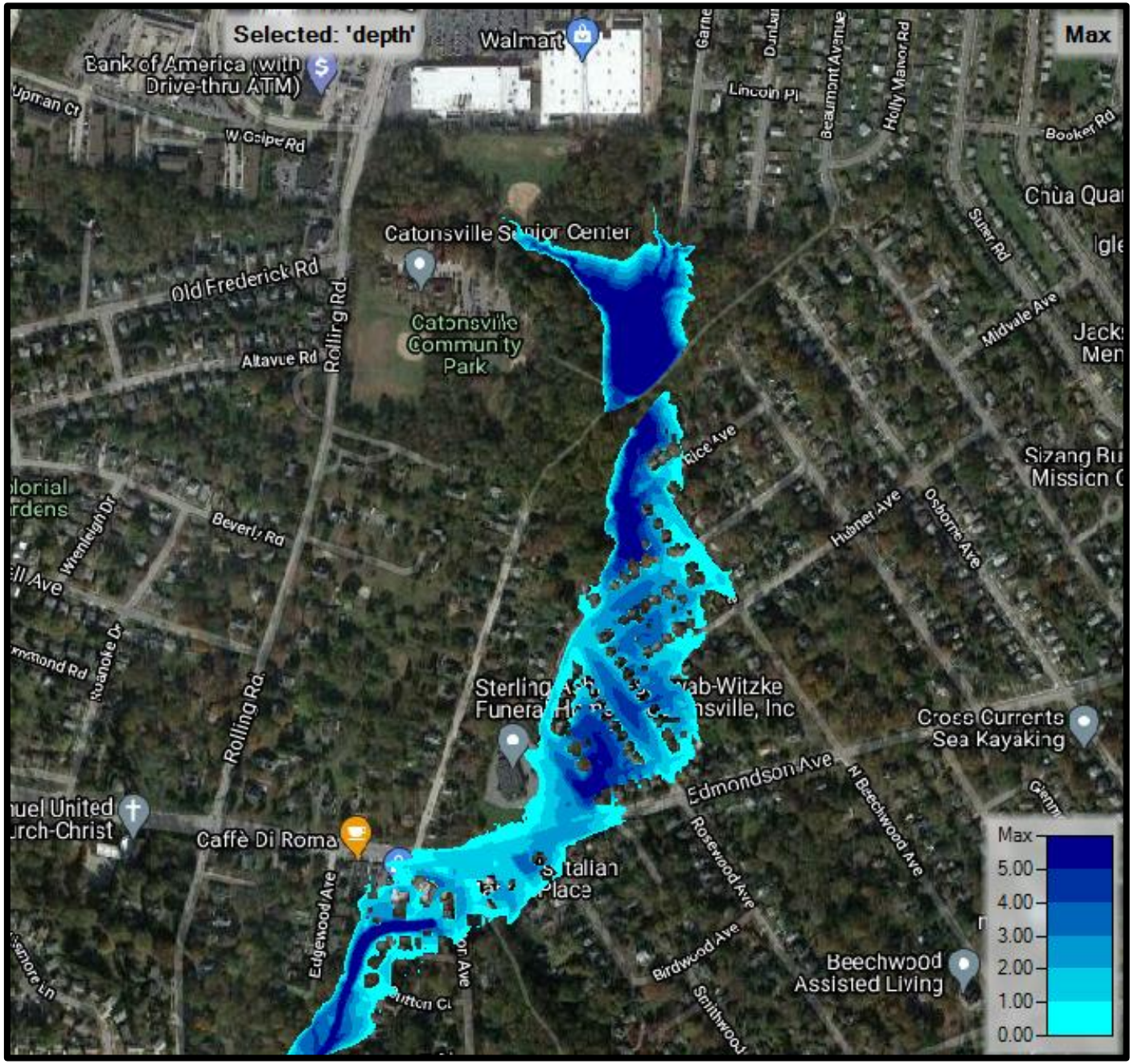

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Agenda

Presentation One | 09:30 – 10:00 a.m.

Hazard Classification and Hazard Creep

Scott Bass, P.E., Dam Safety Inspections and Compliance Division

Presentation Two | 10:05 – 10:35 a.m.

Common Mistakes, Problems, and Misconceptions

Hal Van Aller, P.E., Dam Safety Inspections and Compliance Division

Presentation Three | 10:40 – 11:10 a.m.

Technical Memos and Hot Topics

John Roche, P.E., Dam Safety Permits Division

Presentation Four | 11:15 – 11:35 p.m.

Sediment Basins and Code 378

Amanda Malcolm, P.E., Sediment and Stormwater Plan Review Division

Presentation Five | 11:35 – 12:00 p.m.

Next Steps, Q&A

Stew Comstock, P.E., MDE Stormwater Program Review Division

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What's in Your Pond?

Maryland Department of the Environment

College of Southern Maryland's Center for Environmental Training

Chesapeake Bay Regulatory and Accountability Program

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- Opportunity to bring everyone together that has a say in small ponds to discuss the current issues
- Establishing a framework for continued outreach and a coordinated approach to these issues
- Improving Maryland's Erosion and Sediment Control, Stormwater Management, and Dam Safety Programs

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What's in Your Pond Session 1

1. Well organized. Presented in a way that flowed well.

2. The presenters were well prepared and thoroughly engaging.

3. *Please provide the presentation/materials so I may review it again with colleagues.*

4. Extremely impressive presentations across the board. Total and deep understanding of the topics, great anecdotes, and expert and respectful presentation of so much info. Probably best webinar I have ever participated in, and I mean that very sincerely!

5. *Good stuff, keep it coming!*

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Chat Box Question from 9/16/2020

Are these webinars supporting a State initiative to change stomwater management or dam safety policies, regulations, or laws?

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Yes!

Maryland Environment Article§4–203

(a) The Department of the Environment shall implement the provisions of this subtitle and shall consult the Department of Natural Resources from time to time, including during the adoption of regulations, concerning the impact of stormwater on waters of the State.

(b) The Department shall adopt rules and regulations which establish criteria and procedures for stormwater management in Maryland.

(c) Before the regulations required under this subsection are final, the Department shall hold at least one public hearing in the affected immediate geographic areas of the State and shall consult with the affected counties and municipalities.

(d) The Department shall provide technical assistance, training, research, and coordination in stormwater management technology to the local governments consistent with the purposes of this subtitle.

What do all of these people have in common?

Gene Gopenko
Paul Hlavinka
Geoffry Schoming
John B. Redden Jr.
Nathaniel Krause
Bill Clark
Mark Etheridge
Martin Covington
Rey deGuzman

Robert Shockley
James Stiles
Amber Thompson
Bruce Appell
Karen Houtman
Jacob Dieguez
Bruce Young
Don Mills
Mark Richmond

Quintin Cornwell
Dale Pusey
Eva Kerchner
Shannon Moore
Matthew Keenan
Mike Snyder
Kritty Udhin
Heather Gewandter

What do you need from the Department?

- What could you offer?
- We have issues with all permitting agencies taking too long to review projects, and making comments that are inconsistent. The Department needs to streamline the operations, make electronic submittals possible.
- ESD was adopted without an accompanying construction inspection manual
- Discussion of MD-378 and required updates to the standard
- Continuous guidance and policy clarifications
- Training is critical and should be provided annually

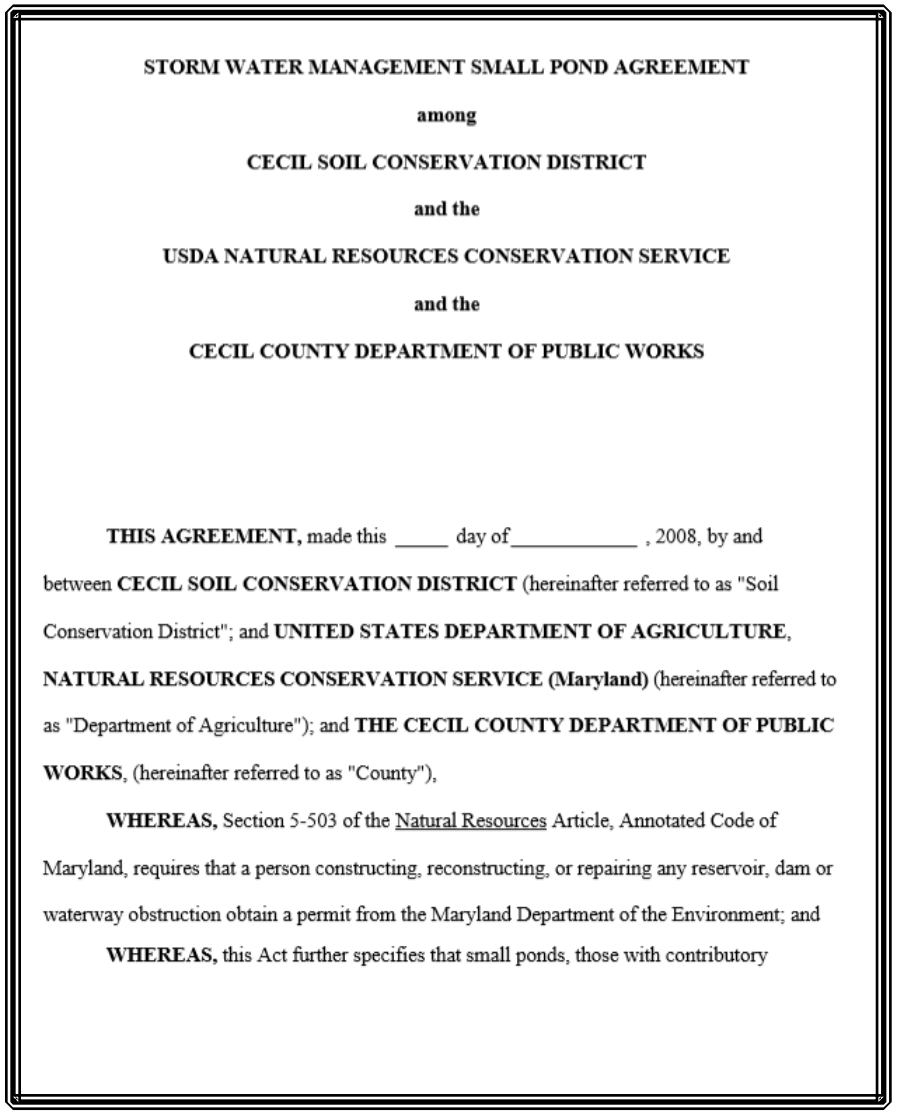
Some Additional Questions

- Arrangements between SCD and SWM regarding small pond review
- More information on quantity management across the State
- Maryland Occupational Safety and Health

MOUs that we currently have

- Anne Arundel County
- Baltimore County
- Carroll County
- Cecil County
- Harford County
- Montgomery County
- Prince George's County
- Washington County

Example MOU



STORM WATER MANAGEMENT SMALL POND AGREEMENT

among

CECIL SOIL CONSERVATION DISTRICT

and the

USDA NATURAL RESOURCES CONSERVATION SERVICE

and the

CECIL COUNTY DEPARTMENT OF PUBLIC WORKS

THIS AGREEMENT, made this _____ day of_____ , 2008, by and between **CECIL SOIL CONSERVATION DISTRICT** (hereinafter referred to as "Soil Conservation District"; and **UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE (Maryland)** (hereinafter referred to as "Department of Agriculture"); and **THE CECIL COUNTY DEPARTMENT OF PUBLIC WORKS**, (hereinafter referred to as "County"),

WHEREAS, Section 5-503 of the Natural Resources Article, Annotated Code of Maryland, requires that a person constructing, reconstructing, or repairing any reservoir, dam or waterway obstruction obtain a permit from the Maryland Department of the Environment; and

WHEREAS, this Act further specifies that small ponds, those with contributory

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Stormwater Regulation -- 26.17.02.06(3)

Control of the 2-year frequency storm event, 10-year frequency storm event, or both is required according to the Design Manual if any county or municipality determines that additional stormwater management is necessary because historical flooding problems exist and downstream floodplain development and conveyance system design cannot be controlled.

County	2-Year	10-Year	100-Year
Allegany	No	(2)	No
Anne Arundel	No	(2)	(2)
Baltimore City	No	y	Jones Falls, Gynns Falls, Herring Run
Baltimore	(2)	(2)	Jones Falls, Gynns Falls, Herring Run
Calvert	(2)	(2)	No
Caroline	(2)	(2)	No
Carroll	(2)	(2)	No
Cecil	(1)	(1)	No
Charles	No	Yes	No
Dorchester	Yes	Yes	No
Frederick	No	Yes	Carroll Creek
Garrett	(2)	(2)	No
Harford	No	Yes	No
Howard	No	Yes	No
Kent	No	(2)	No
Montgomery	No	(2)	(2)
Prince George's	No	(2)	(2)
Queen Anne's	(2)	(2)	No
Saint Mary's	No	Yes	(Yes)
Somerset	Yes	Yes	No
Talbot	(3)	No	No
Washington	No	Yes	(2)
Wicomico	(2)	(2)	No
Worcester	Yes	Yes	No

Activate Wind

(1) QP2 is required for the Coastal Plain (south of Chesapeake & Delaware Canal), and QP10 is required for the Piedmont (north of Chesapeake & Delaware Canal).

(2) Quantity control is not required unless the county determines that it is needed due to historical flooding problems, downstream floodplain development, inadequate conveyance systems, or other county specific criteria.

(3) Quantity control requires that the post-development peak discharge rate be within 10% of the pre-development peak discharge rate.

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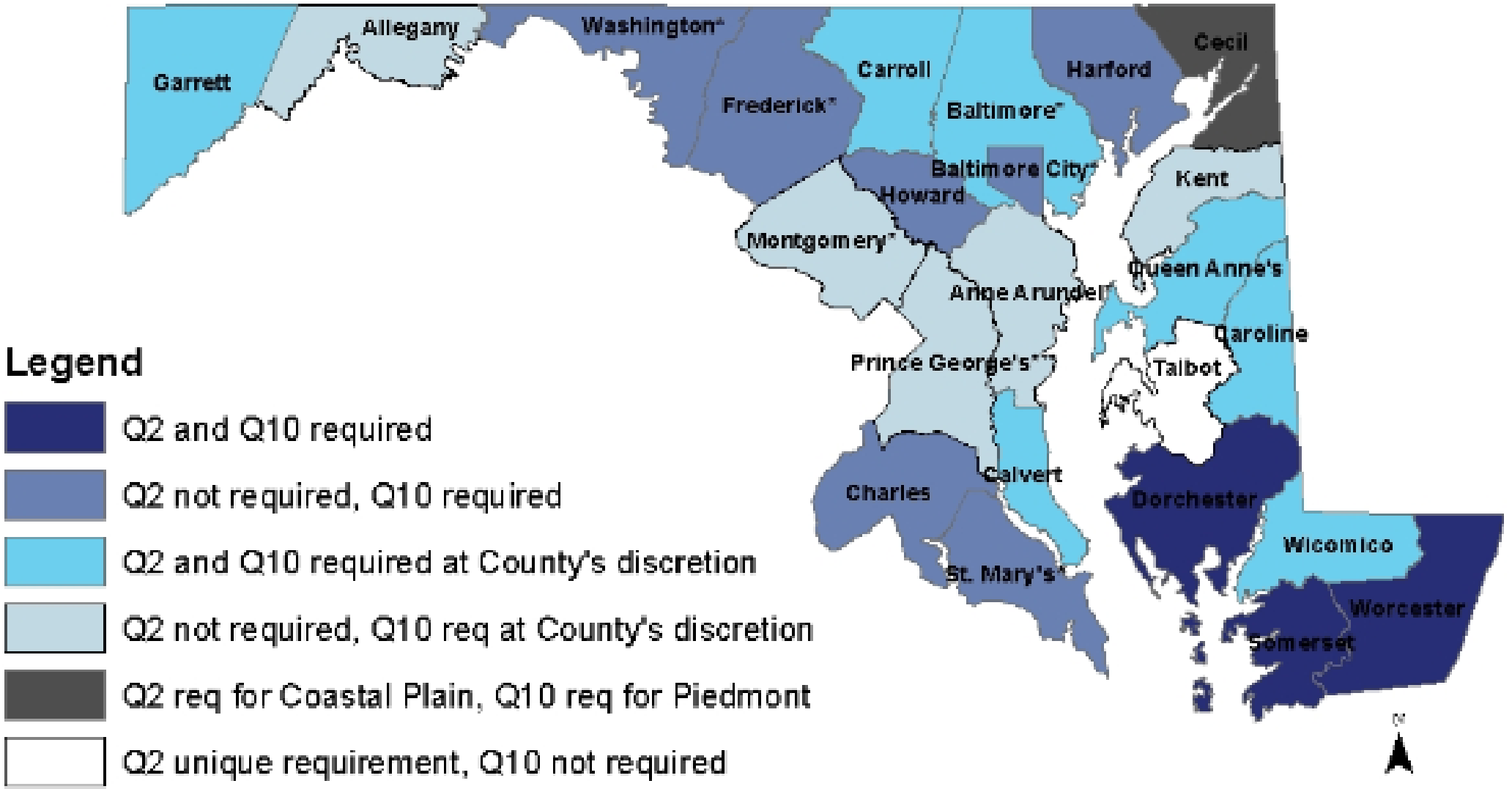

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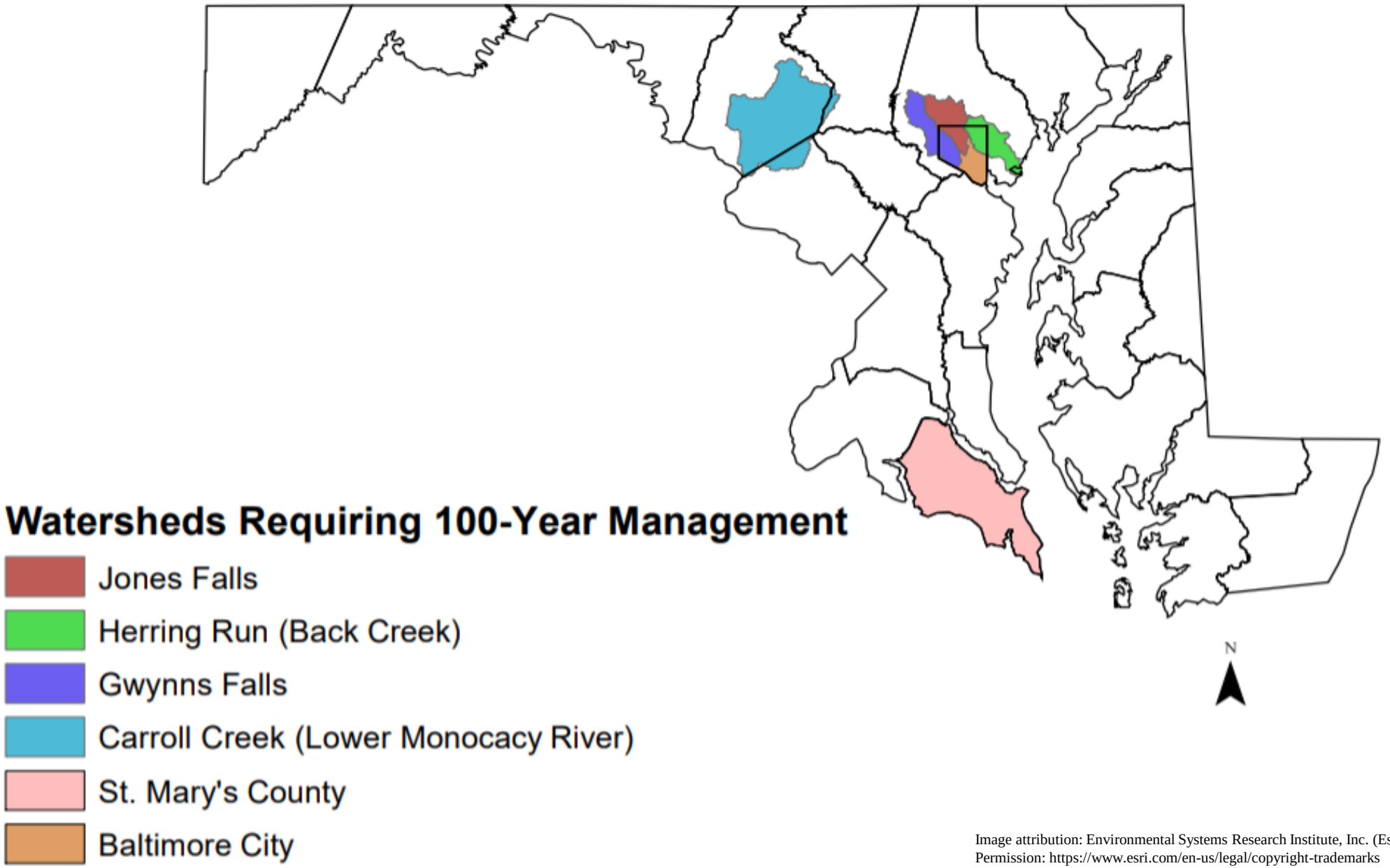

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Safety First

MDE SSDS Staff recently completed a two-day Confined Space training course.

Confined Space entry protocols are required at an inspection vault. Savage River Dam

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