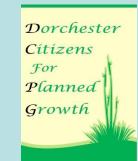
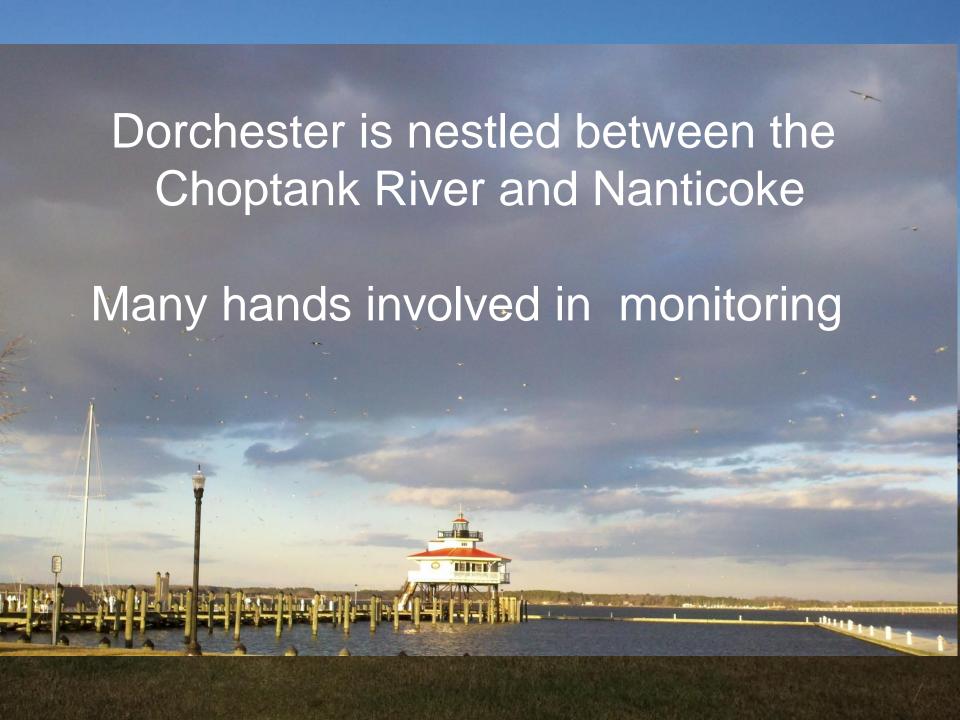
Dorchester County's Creekwatcher Program



Roman Jesien
January 29, 2017
Annual Meeting

"We ARE the heart of the Chesapeake"





2015 Chesapeake Bay Health

 Overall Health – steady improvement from 2011 (D+C)

- Choptank Health C+ no change
 - N, P Fluctuated showing some improvement
 - Lower Shore Health C upward trend
 - N Improved from 2010
 - P Steady but slight decline



2015 NANTICOKE RIVER REPORT CARD

River Final Grade

Water clarity and phosphorus scores slightly improved; however, water clarity continued to be moderately poor in both regions. Phosphorus scores were moderately good, while nitrogen scores were poor. Chlorophyll a scores were



Water clarity scores were good for all regions, except for the Lower Creeks in Maryland and Broad Creek in Delaware. Nitrogen scores were poor in all creek regions; the Lower Creeks' nitrogen scores declined greatly from 2014 to 2015. Phosphorus scores were moderate or good in all creek regions, with the Lower Creeks showing marked improvement over 2014. Chlorophyll a scores varied from poor in Broad Creek to moderate in other areas.

Two final grades were calculated: Rivers and Creeks. The "River" grade is a measure of the health of the mainstem of the Nanticoke River. The "Creeks" arade assesses the health of the creeks that feed into the Nanticoke. Both grades are important indicators of the overall health of the watershed.



Marshyhope



Water clarity scores were good for all regions except for the Lower Creeks in Maryland.

Lower Creeks while good in the other creek

regions. Chlorophyll a scores varied from

Nitrogen scores were poor in all creek

regions, except for the Lower Creeks. Phosphorus scores were moderate in the



2014 NANTICOKE RIVER REPORT CARD

Creeks Final Grade

good to moderate.

River Final Grade



. Scores were very similar to those in

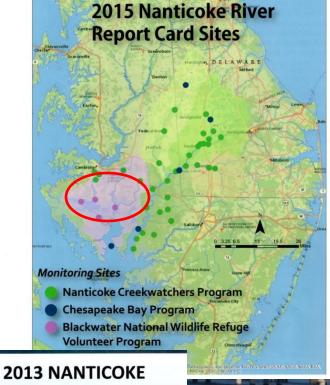
Water clarity scores continued to be poor for the Upper and Lower Nanticoke.

Phosphorus scores were moderately good, while nitrogen scores were poor. Chlorophyll a scores were



Figure 1: Report card grades for the Nanticoke River, its creeks, and Fishing Bay in 2014. The water quality grades are based on data collected by Nanticoke Creekwatchers, volunteer citizen scientists for the Nanticoke Watershed Alliance. Additional Nanticoke River watershed data comes from the Chespoeke Roy Program, including sizes monitored by the Delaware Department of Nantiral Resources and incinomental Control of the Maryland Department of Natural Resources and incinomental Control of the Maryland Department of Natural Resources and on the Maryland Department of Natural Resources and the Maryland Department of Natural Resources and the Maryland Department of Natural Resources and the Maryland Department of Natural Resources. Blackwater National Wildlife Refuge provided data from their volunteer program for the Fishing Boy votershed.

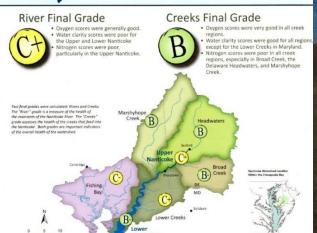
NANTICOKE CREEKWATCHER SAMPLING SITES



THE RESERVE OF THE PARTY OF THE

Janticoke

RIVER REPORT CARD



Chicamocomico @ Rt 50 Little Blackwater at Rt 16

DCPG Creek Watchers

7 Stations every 2 weeks – 2008 - Present

Field

Dissolved Oxygen Temperature Salinity Water Clarity

less being and and and have been been and a

Laboratory

Nutrients
Nitrogen
Phosphorus
Bacteria

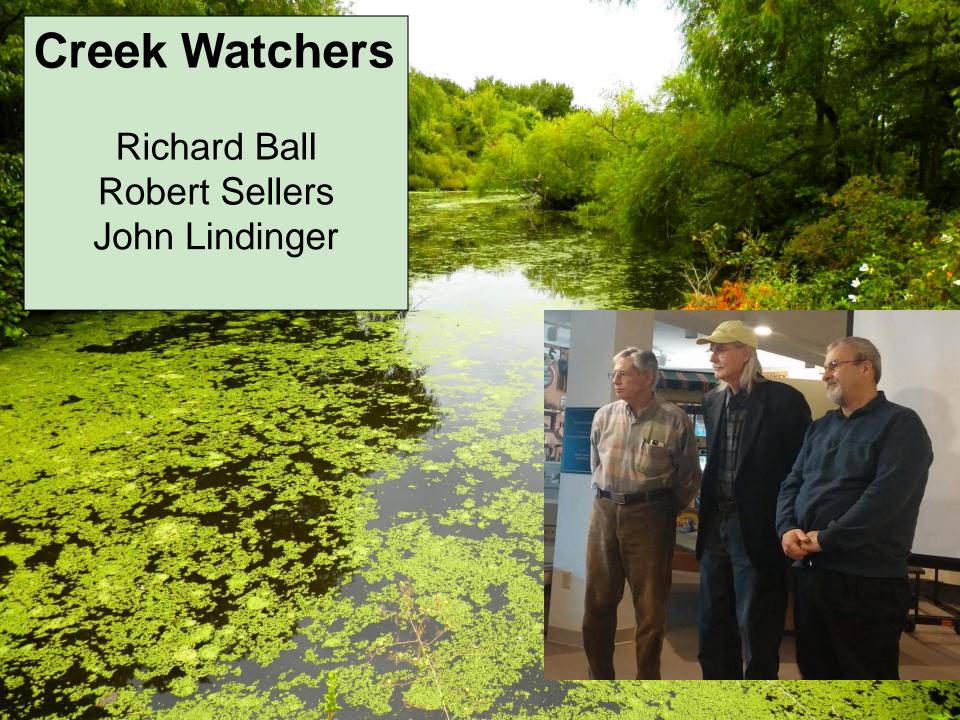
Nanticoke Watershed Association

Made Possible through the Efforts of Dedicated Volunteers



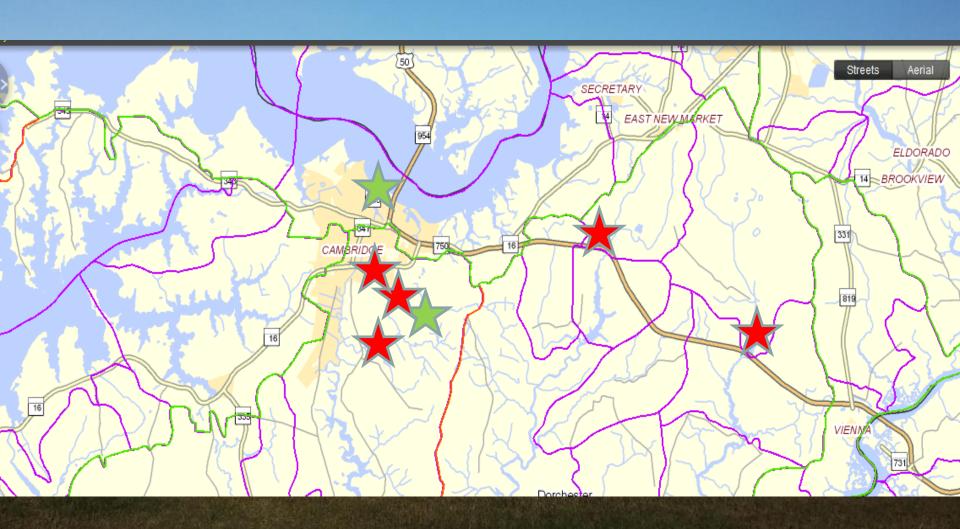
Envirocore Labs, Inc Harrington DE

University of MD
Horn Point
Environmental Lab

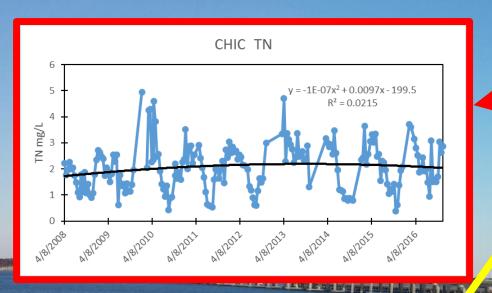


Sampling stations

5 Long term, NWA 2 DCPG funded



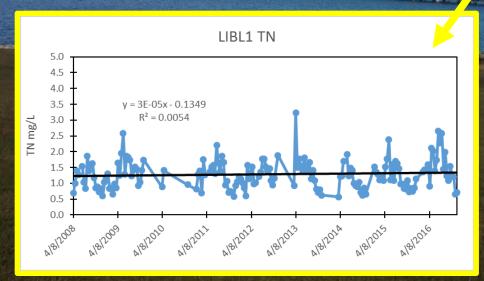
Some Examples of Trends Over the Past 9 years?

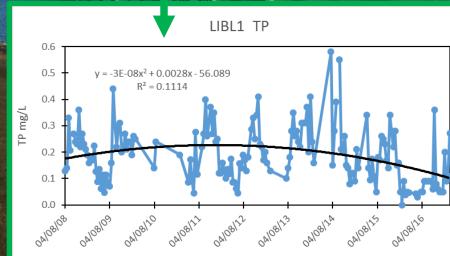


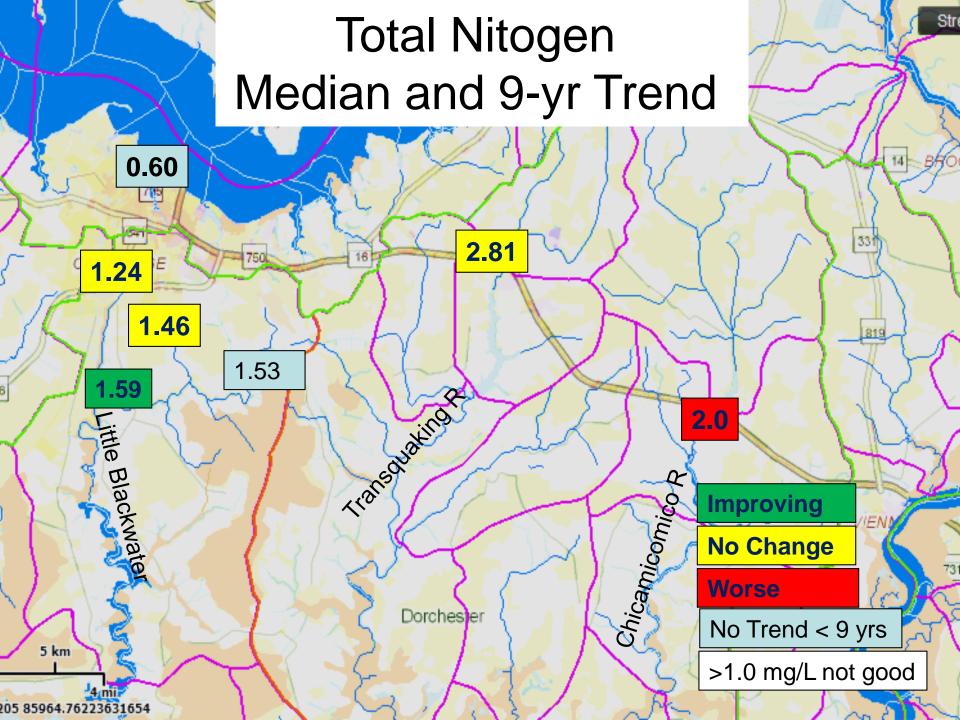
Upward (increasing nutrient)Trend

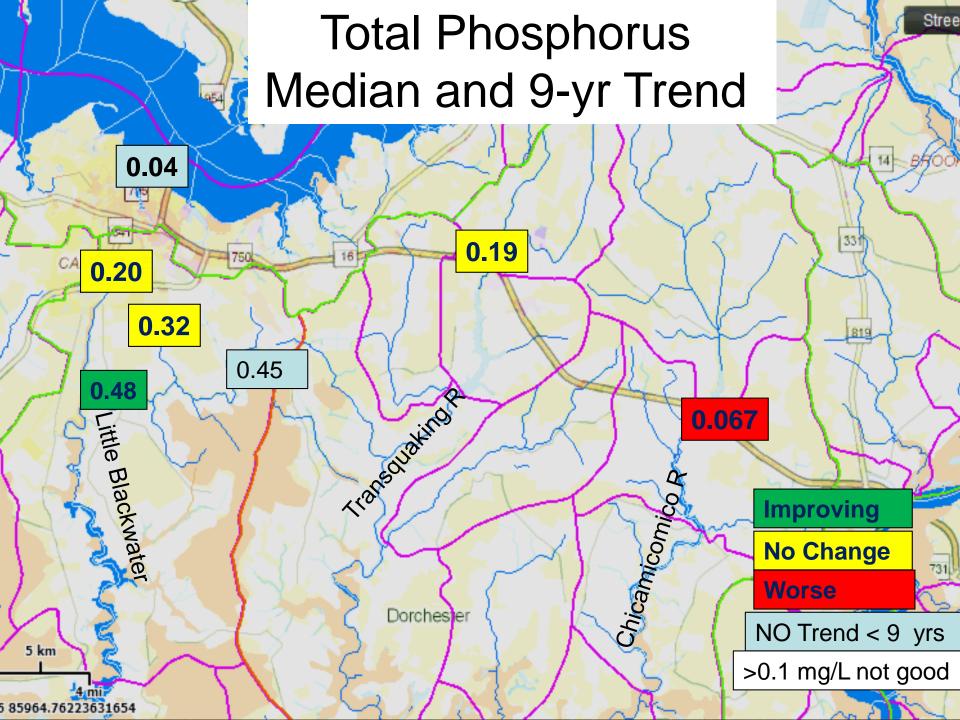
No Trend

Decreasing (lower nutrients) Trend







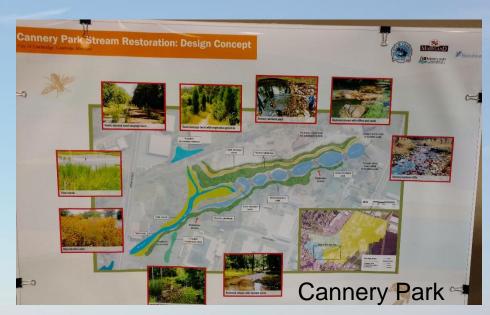


The future looks good – we are headed in the right direction!





Stormwater Ed Station







Planned Growth

Stormwater Infiltration

