



Annapolis Marine Water Quality *Status*

- Severn River is impaired, tributaries worse
- Problem rooted largely in nutrient loading
- Some actions in place, but insufficient
 - City stormwater & sewage controls
 - Fertilizer usage, agriculture, etc.
 - City operated pumpout boat
 - Marina owned/maintained pumpout
- What opportunities are there to improve?

Annapolis Marine Water Quality

How We can Improve?

- Focus here on discharges from boats
- Mostly recreational boating in Annapolis
- What does “improvement” mean
 - Reduce effluent discharges
 - Increase levels of compliance
 - Improve public knowledge & support
 - Enhance positive image of Annapolis as an environmentally attractive destination.
- What opportunities are there to improve?

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Annapolis Pumpout Program

- Pumpout boat program operated by City
- Grants cover capital & operating costs. \$60K, operating plus capital
- Revenue from mooring/dockside fees
- \$5 pumpout fee. State sets maximum, no min.
- Profit center for the city? It shouldn't be.
- Opportunities for additional grant revenue if needed. (experience in other NDZs)

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Private Marina Pumpout

- Most have pumpout capability
- Some with past capital support from state
- Uneven performance & reliability
- Maintenance; competes with fuel revenue
- Revenue from mooring/dockside fees
- Some marinas offload pumpout to City
- Need survey of capacity & reliability.

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Waive Pumpout Fee

- Fee unnecessary & disincentive for a segment of the market
- Fee waiver a trend in other boating towns
- Free pumpout demonstrated to increase usage
- Sends supportive message about commitment
- Analogies/precedents:
 - Anne Arundel County and tires
 - America and pay toilets
- Admin. burden to handle small cash amounts

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No Discharge Zone (NDZ)

- NDZ is a program administered by EPA
- Responds to state application to designate
- For us, DNR on request by city of Annapolis
- About 80 NDZs already recognized by EPA
- 2 in Maryland, 3rd pending on Chester River
- Anybody can initiate the process, e.g.
 - State (e.g., Rhode Island)
 - Locality (e.g., Bourne MA)
 - Marina (Herring Bay MD)

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No Discharge Zone

Comprises these components

- Assessment of need, water quality
- Assessment of pumpout capacity
- Management, operations, funding
- Public communication, education
- Marine Sanitation Devices (MSD):
Type 1, 2 partially treat, discharge all nutrients
Type 3 holding tanks & composting toilets
- All face same discharge prohibition.

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No Discharge Zone

- NDZ recommended for Annapolis by Severn River Commission
- NDZ recommend for Annapolis by last Mayor's transition team
- NDZ supported for Annapolis by president & board of Severn River Association.
- NDZ supported by AEC, by formal resolution.



AFC: Annapolis Marine Water Quality
2015.02.12 EMC Kurt Riegel

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NDZ Benefits

- Application process stimulates data development, interest & support
- Identifies priority areas for improvement
- Promotes public information and education
- Makes Annapolis a more attractive Destination
- Pragmatic: Increased grant funds
- Improved overall compliance
- Improved water quality.

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NDZ Cons (Objections)

- *Change* creates both support and opposition
- MSD 1, 2 partially obsoleted
- Loss sales of MSD 1&2 (offset by more sales of MSD 3 (holding/composting))
- Enforcement concern, but no change.
- Private impacts to adjust, cost and convenience
- Narrow competitiveness? But is a sustainable business model “Dirtier than the Competition”?



HARBORMASTER

HARBORMASTER

PUMPOUT VHF-17

Annapolis Marine Water Quality

Case Study: Nantucket RI

- NDZ All pros, no cons according to Harbormaster Sheila Lucey
- Free pumpout
- Useful in getting grant funds to fully cover costs
- Excellent compliance
- Not a single vessel arrived that could not comply.

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Case Study: Bourne MA

- NDZ All pros, no cons according to Harbormaster Tim Mullen
- Free pumpout removes all excuses
- Useful in getting grant funds to fully cover costs
- Not a single vessel arrived in 10 years that could not comply
- Great support from public & marine industry, shellfish important there

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Case Study: Newport RI

- NDZ All pros, no cons according to Harbormaster Tim Mills
- Useful in getting grant funds to fully cover costs
- No vessels could not comply
- Want to waive \$5 pumpout fee, political barrier
- Wonderful support from public & marine industry, shellfish important.

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Case Study: Herring Bay MD

- NDZ All pros, no cons according to Marina Owner Steuart Chaney
- Gave him competitive advantage (Solomons Marinas)
- Waives \$5 pumpout fee for his customers
- Recommends it for Annapolis
- Volunteered to speak to City telling of his positive experience

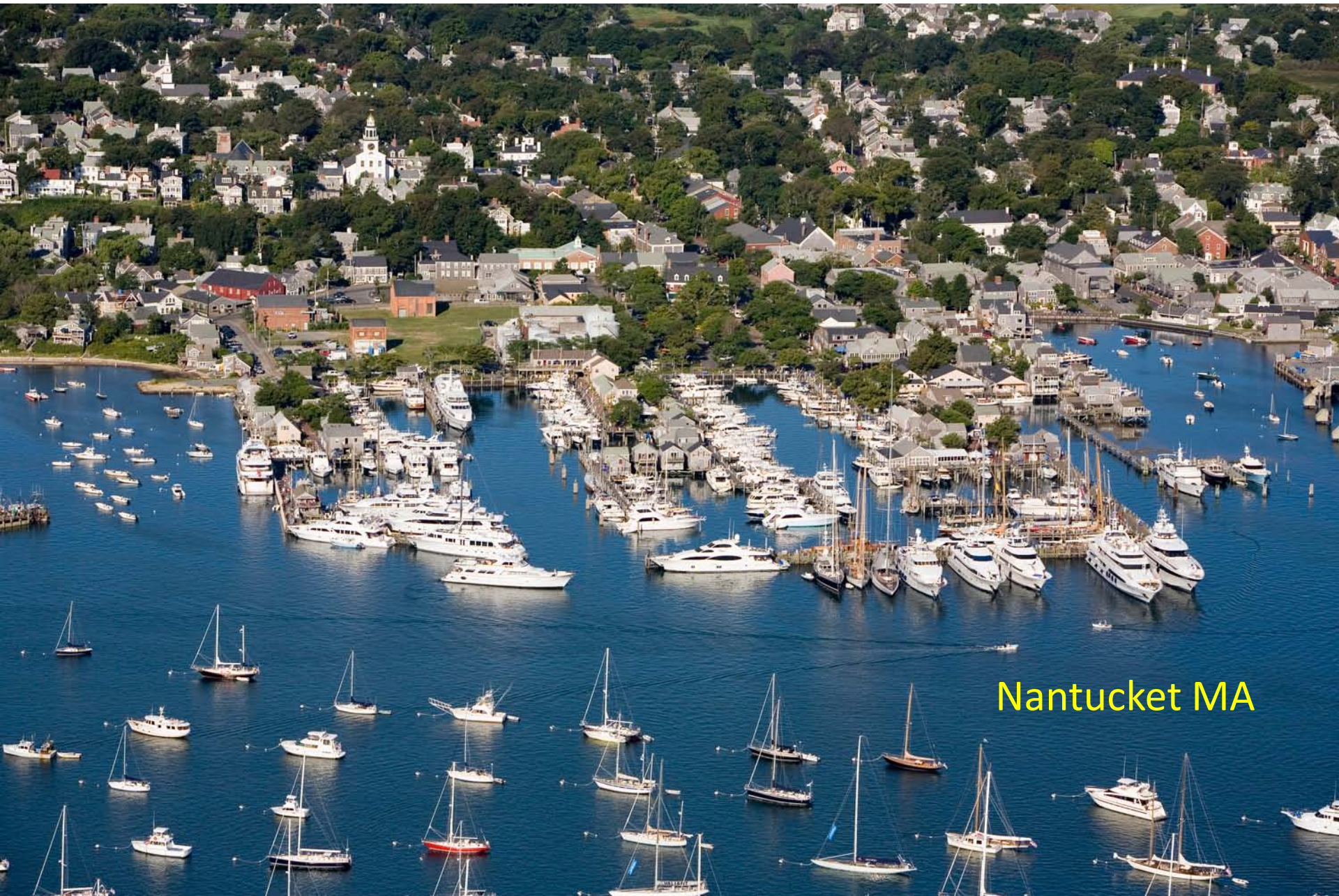
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AEC Recommendation

- Examine & optimize private/public pumpout relationships
- Waive pumpout fees for small recreational vessels
- Initiate NDZ application process
- Do careful analysis of costs/revenues/benefits
- Organize and hold public meeting(s) as a part of that process
- Seek supplementary grants as necessary.

Weems Creek





Nantucket MA



Newport RI