

NDZ Application

Sarah Creek & Perrin River

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Go Green Gloucester Advisory Committee (GGGAC)

- Advisory committee to the Board of Supervisors (BOS)
 - Comprised of citizens, county staff, and a Board member
 - Tasked to research, analyze and recommend polices, practices and ordinances intended to protect, preserve or improve natural resources in Gloucester County.
 - Recommended No Discharge Zone designation for Sarah Creek and Perrin River to Board of Supervisors
 - October 7, 2014 – BOS passed a resolution authorizing the GGGAC to submit an NDZ application to DEQ.



NDZ Application

Sarah Creek & Perrin River

APPLICATION FOR
FEDERAL NO DISCHARGE ZONE (NDZ)
DESIGNATION

SARAH CREEK & PERRIN RIVER
GLOUCESTER COUNTY, VIRGINIA



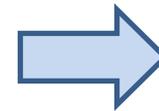
SUBMITTED TO U.S. ENVIRONMENTAL PROTECTION AGENCY REGION III
BY THE COMMONWEALTH OF VIRGINIA

REVISED OCTOBER 20, 2015
REVISED JULY 26, 2016

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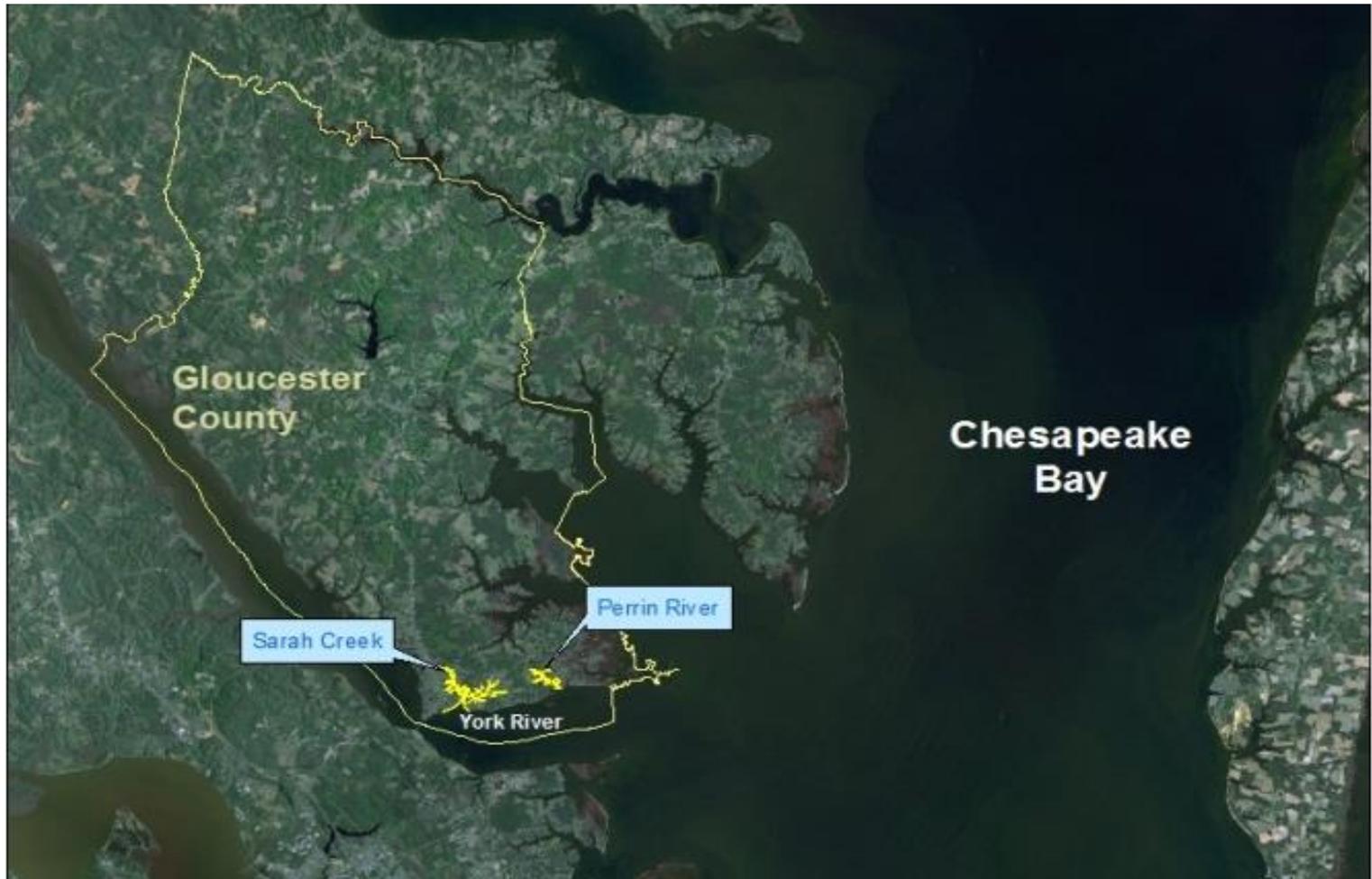


VIMS | WILLIAM
& MARY
VIRGINIA INSTITUTE OF MARINE SCIENCE



NDZ Application

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Proposed Limits of NDZ Areas

Sarah Creek



Perrin River

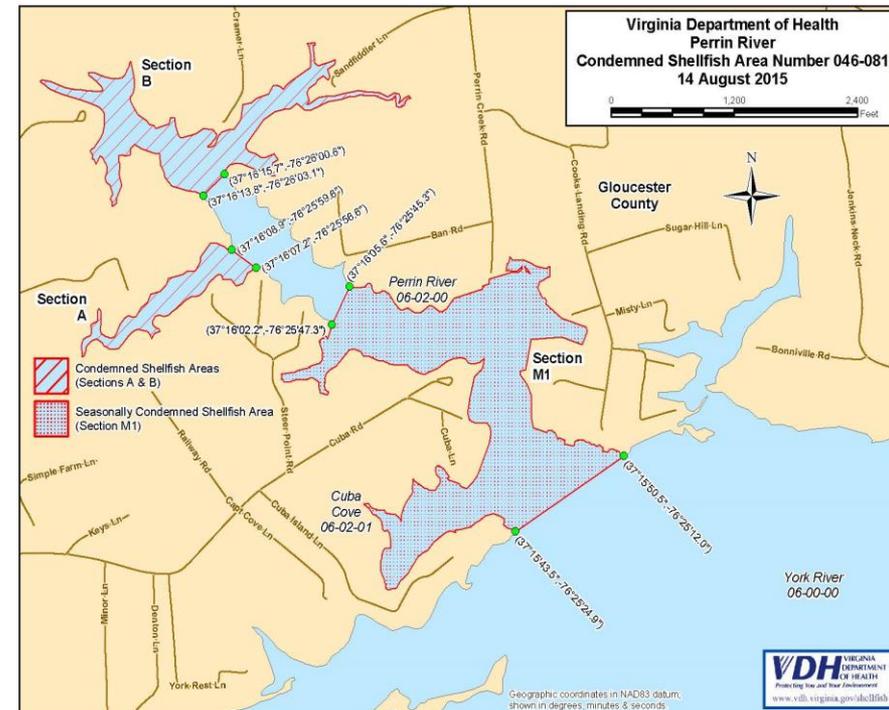
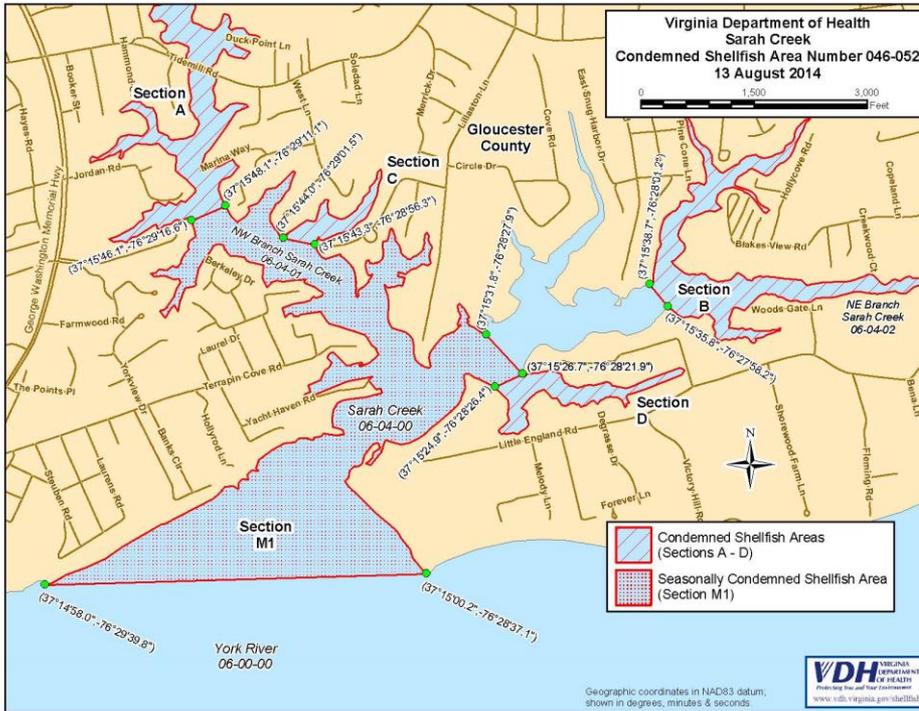


Why Sarah Creek & Perrin River?

- **Sarah Creek has the most marinas**
- **Closed shellfish beds**
- **Adjacent to York River**
- **Commonwealth of Virginia Requires**
 - **Impaired - 303(d) List of Impaired Waters by the Virginia Department of Environmental Quality (DEQ)**

Shellfish Harvesting

Both waterways impaired for shellfish harvesting due to failure to meet the National Shellfish Sanitation standards for fecal coliform bacteria



Dissolved Oxygen

Depletion of Dissolved Oxygen in Water

- Affects aquatic organisms such as fish, oysters and crabs



Submerged Aquatic Vegetation (SAV)

Is lacking in both waterways

Why is SAV important?

- Provides fish, crabs and other aquatic species:
 - Living space (habitat)
 - Refuge from predators
 - Nursery areas
- Food for waterfowl and mammals
- Produces oxygen
- Removal of excess nutrients from the water column
- Leaves slow currents and reduce wave forces
- Rhizomes & roots stabilize the river bottom



EPA

NDZ Designation Requirements

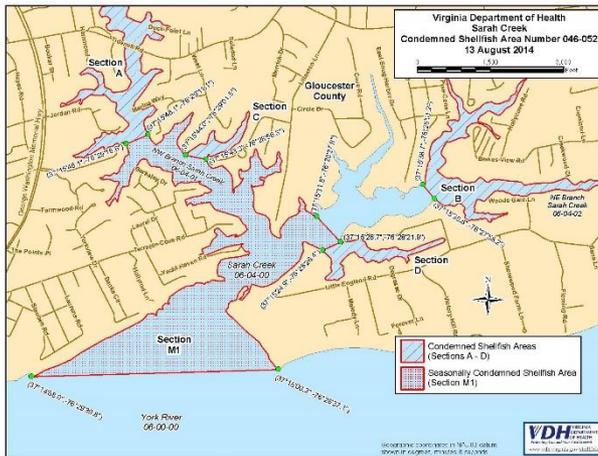
- Show the need for additional environmental protection beyond current Federal standards (Certificate of Need)
- Provide adequate, reasonably available, facilities for the safe and sanitary removal and treatment of sewage from vessels for the waters to which the prohibition would apply.
- Public support



NDZ Designation Requirements

Show the need for additional environmental protection beyond current Federal standards

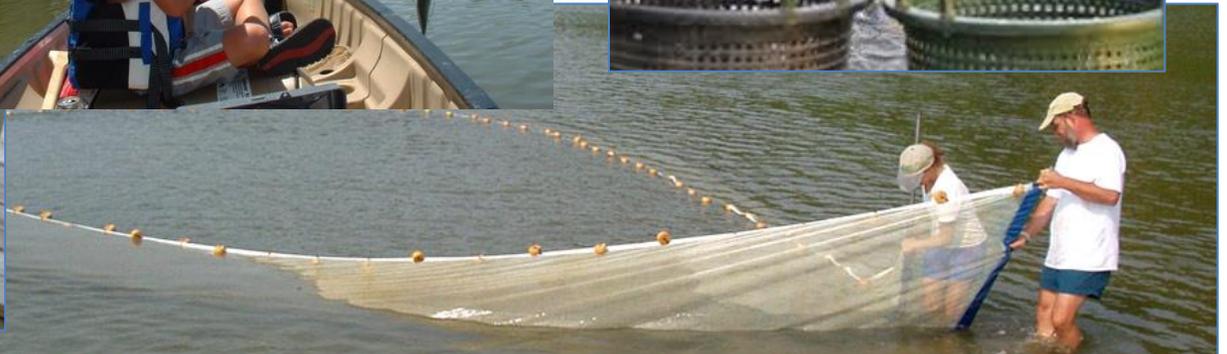
- Impairments
 - Shellfish harvesting, Dissolved oxygen, SAV



NDZ Designation Requirements

Show the need for additional environmental protection beyond current Federal standards

- Recreational and Commercial Fishing/Harvesting - Economy & Quality of Life



NDZ Designation Requirements

Show the need for additional environmental protection beyond current Federal standards

- Natural Resources/Ecosystem



- Culture/History



Provide Adequate Pump-Out Facilities

- Determined through EPA calculation based on the number and type of boats using the waterway
 - Boats had to be counted
 - Measured
 - Categorized (size, recreational, commercial, transient)
- Used Pictometry Aerial Software/GIS
- VA Department of Game and Inland Fisheries Boater Registration Database
- Coast Guard Documented Vessels
- Virginia Department of Health Marina Inspections
- VMRC Commercial Harvest Licenses
- Marina Counts



Provide Adequate Pump-Out Facilities

Sarah Creek

Required: 1.5

Provided: 7

Perrin River

Required: 1.35

Provided: 2

Pump-Out Facilities Locations



Pump-Out Facilities Locations

Dockside Condominiums



- One stationary pump-out station
- Free
- Open to the public, 24/7
- April 1st- November 15th



Pump-Out Facilities Locations

Jordan Marine



- One portable pump-out station
- \$20 fee
- Open to the public during marina operating hours



Pump-Out Facilities Locations

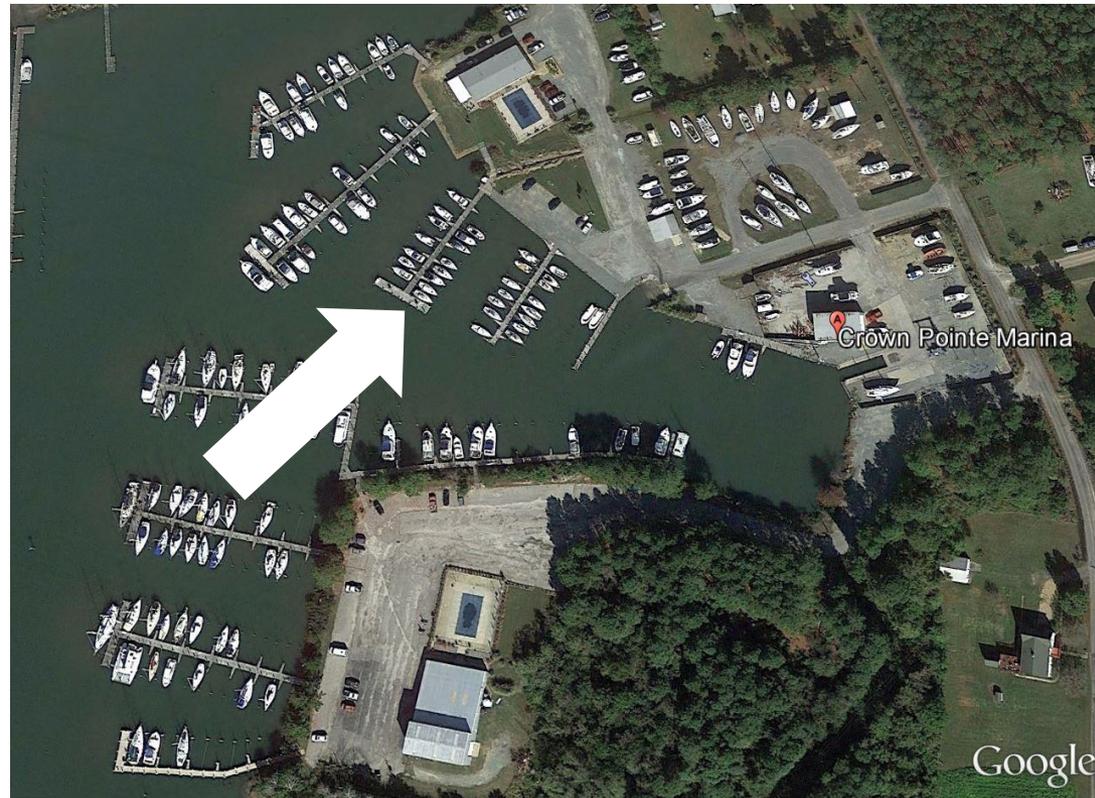


Pump-Out Facilities Locations

Crown Pointe Marina



- One stationary pump-out station
- \$5 fee, but with any purchase (drink) in store, free
- Open to the public during marina operating hours



Pump-Out Facilities Locations

PUMP Out, Don't DUMP Out!

Protect our Precious
Waterways by
Pumping Out Your
Boat's Sewage
Holding Tank



Boater Education Program staff are available year-round to provide a FREE pump-out service.

**Friday, Saturday & Sunday: Memorial Day – Labor Day
and
Saturday: Labor Day – Memorial Day**

Call (757) 460-4253 and leave a message to schedule an appointment or visit <http://www.hrsd.com/boatereducationproject.shtml> to fill out our pump-out form and email to BoaterEd@hrs.com.

Include: Your name, phone number, marina name, pier/slip number, boat name, and day and time* (morning or afternoon) you would like the pump-out.

* Please Note: Times requested may be changed. If inclement weather occurs, pump-outs may be rescheduled.

Visit: <http://www.vdh.virginia.gov/EnvironmentalHealth/ONSITE/MARINA/documents/pumpouts.pdf>

for marina pump-out locations.

This educational program is provided by:



Hampton Roads Sanitation District (HRSD) Boater Education Program

- Provides FREE pump-out
 - Fridays, Saturdays & Sunday (boating season).
 - Saturdays, the rest of the year
- Is present at local marinas about every weekend
- Will come to private docks upon request



HRSD Boater Pump-Out



Benefits of NDZ

- **Environmental/Water Quality**
 - Improve water quality
 - Improve habitat for aquatic and terrestrial animals/plants
 - Potentially re-open shellfish beds, prevent future additional closures
 - Directly benefit recreational and commercial fisheries
- **Economic**
 - Open shellfish beds/recreational and commercial fisheries
 - VIMS 2009, Assessment of the Economic Impacts of Recreational Boating in the City of Hampton
 - Water quality & environmental conditions top items for deciding where to keep boat
- **Education**
 - Create awareness of the impacts of treated sewage, bacteria and nutrients in the waterways; encourage stewardship

Questions?

Draft Application Online:

<http://www.deq.virginia.gov/Programs/Water/WaterQualityInformationTMDLs/TMDL/NoDischargeZoneDesignations.aspx>

Specific Application

Questions:

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Send Comments by Friday, August 26, 2016 to:

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