

# Bay Restoration Fund Onsite Sewage Disposal Update

**Governor's Advisory committee** 

**September 25, 2006** 





### **BRF-OSDS**

- Request for Proposals
- Proposed Awards
- Best Available Technologies
- Committee Reports





### Request For Proposals

- Request for Proposals sent out on 3/1/2006
- Received 11 proposals
  - Ten proposals identified as meeting basic criteria of RFP
  - One county submitted after deadline
- \$9,000,000 obligated to ten counties.
- Subject to Board of Public Works Approval.





### Criteria for allocation of funds

- Each proposal was reviewed by the team and scored according following criteria (total score 300 points):
  - Failing OSDS in Chesapeake Bay/Coastal Bay Critical Areas (100 pts)
  - OSDS related health issues (6 pts)
  - 303(d) Watershed restoration efforts (6 pts)
  - Identification/prioritization of OSDS users to upgrade to BAT (12 pts)
  - Distance to reservoir/recreational waters (within 2500 ft ?) (6 pts)
  - Proposed management level (based on 5 EPA levels) (12 pts)
  - Partnership with County Health Department (6 pts)
  - Readiness to proceed (staff, equipment, data storage) (6 pts)
  - Allocation of funds (technology, O&M and administrative cost) (100)
- None of the projects were fully funded
  - range from 42% to 95%





### Bay Restoration Fund 2006-2007 Award Allocation

#### **Total Award \$9,002,000**

Anne Arundel County \$2,644,000

Calvert County \$933,000

Charles County \$604,000

Fredrick County \$712,000

Kent County \$597.000

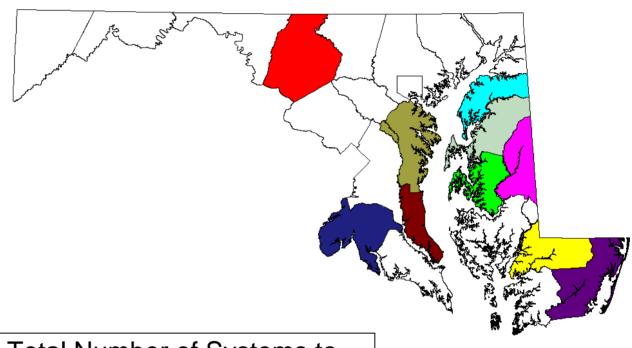
Queen Anne's County \$287,000

Caroline County \$144,000

**Talbot County** \$1,168,000

Wicomico County \$771,000

Worcester County \$1,142,000



Total Number of Systems to be installed: 772





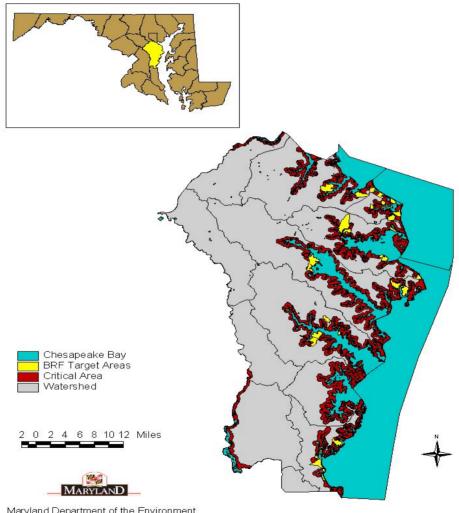
### **Anne Arundel County**

- Submitted by the Health Department
- \$2,644,000
- 124 units





### **Anne Arundel County**



Maryland Department of the Environment 1800 Washington Blvd, Baltimore, MD 21230 Map Production Date: 05/19/2006

Data Sources:
County, Watersheds and Streams - DNR
Anne Arundel's County Critical Area - MDE
Septic Problem Area's - AA County Health Dept





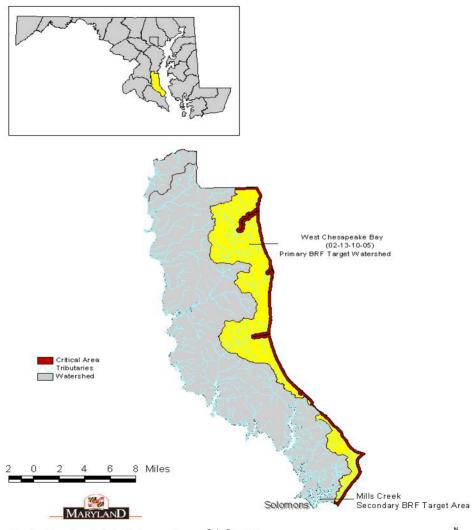
### **Calvert County**

- Submitted by the Department of Planning and Zoning
- \$932,000
- 75 units





### **Calvert County**



Maryland Department of the Environment 1800 Washington Blvd, Baltimore, MD 21230 Map Production Date: 05/25/06 Data Sources: County, Watersheds and Streams - DNR Calvert County's Critical Area - MDE







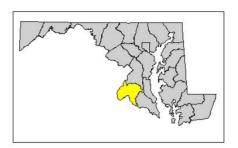
### **Charles County**

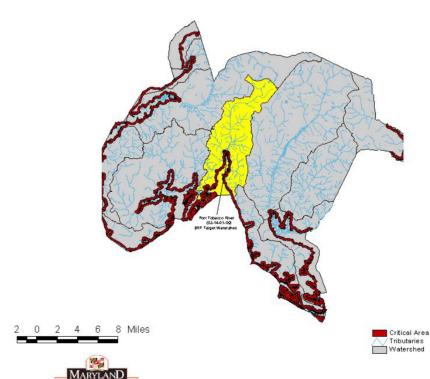
- Submitted by the Health Department
- \$604,000
- 48 units

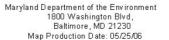




### Charles County







Data Sources: County, Watersheds and Streams - DNR Charles County's Critical Area - MDE







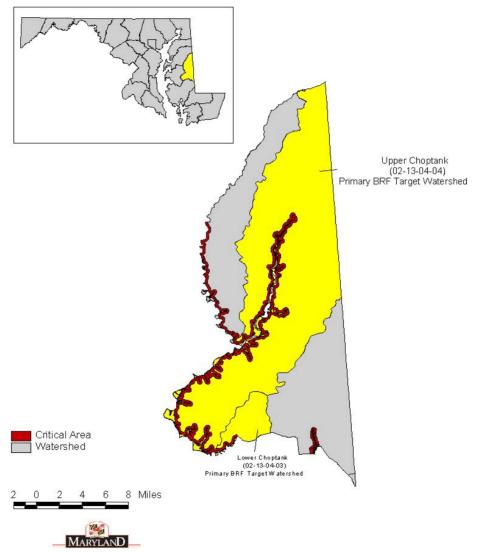
### **Caroline County**

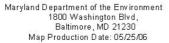
- Submitted by Health Department
- \$143,000
- 7 units





# Caroline County





Data Sources: County, Watersheds and Streams - DNR Caroline County's Critical Area - MDE







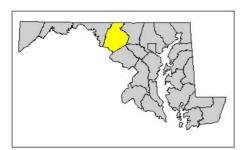
### Frederick County

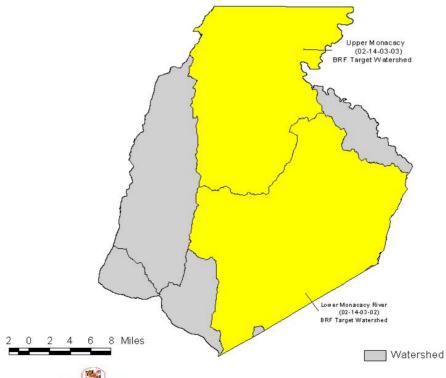
- Co-Submitted by the Health Department and the Canaan Valley Institute
- \$712,000
- 68 units





### Frederick County







Maryland Department of the Environment 1800 Washington Blvd, Baltimore, MD 21230 Map Production Date: 05/25/06 Data Sources: County, Watersheds and Streams - DNR Kent County's Critical Area - MDE







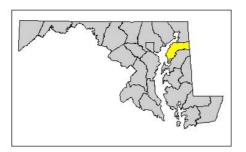
### **Kent County**

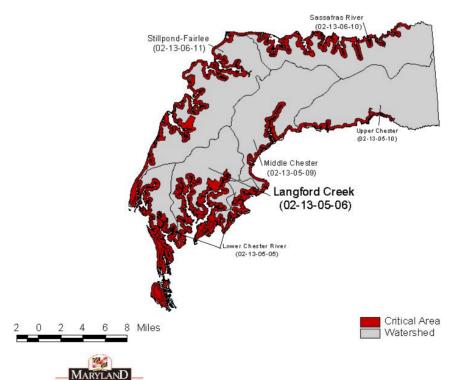
- Submitted by the Department of Water & Wastewater
- \$597,000
- 48 units

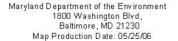




### **Kent County**







Data Sources: County, Watersheds and Streams - DNR Kent County's Critical Area - MDE







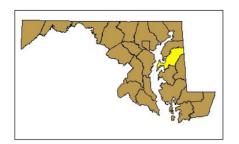
### Queen Anne's County Corsica River Targeted Watershed Project

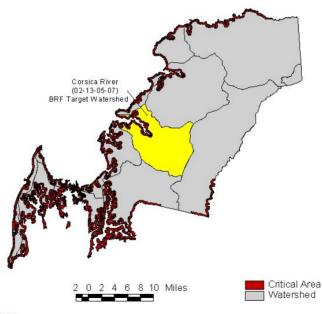
- Submitted by the Maryland Department of Natural Resources
- \$287,000
- 26 units





### Queen Anne's County





Data Sources:

County, Watersheds and Streams - DNR

Queen Anne's County Critical Area - MDE



Maryland Department of the Environment 1800 Washington Blvd, Baltimore, MD 21230 Map Production Date: 05/25/06







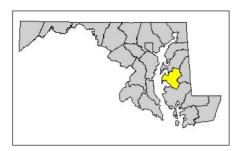
### **Talbot County**

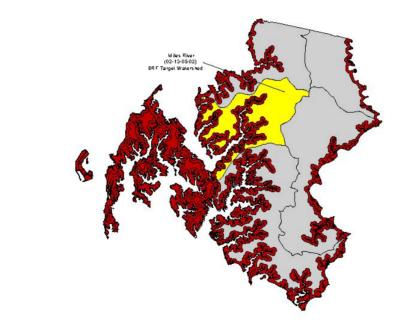
- Submitted by the Department of Public Works
- \$1,168,000
- 62 units





# **Talbot County**









Maryland Department of the Environment

1800 Washington Blvd,

Baltimore, MD 21230 Map Production Date: 05/25/06 Data Sources: County, Watersheds and Streams - DNR Talbot County's Critical Area - MDE









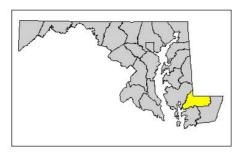
### Wicomico County

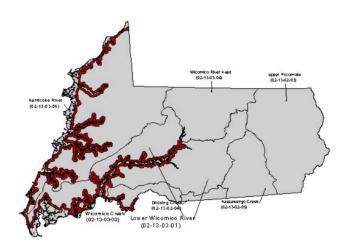
- Submitted by the Health Department
- \$770,628
- 62 units





### Wicomico County





County, Watersheds and Streams - DNR



Maryland Department of the Environment 1800 Washington Blvd. Baltimore, MD 21230 Map Production Date: 05/25/06









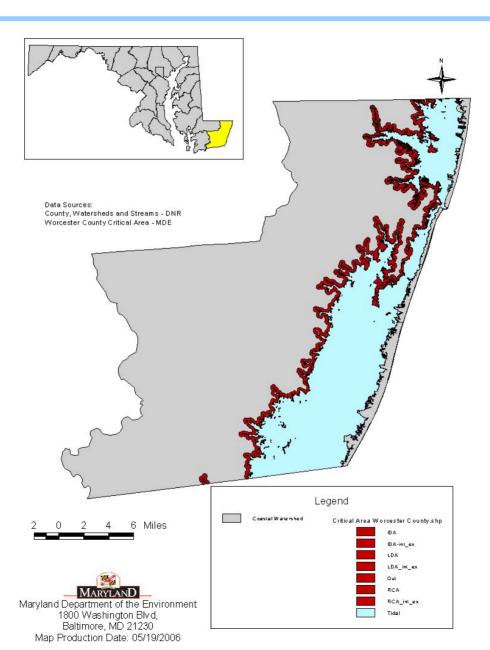
### Worcester County

- Submitted by the Department of Environmental Programs on behalf of the County Commissioners
- \$1,142,169
- 91 units





# Worcester County







### Best Available Technology (BAT)

### **BAT for removing Nitrogen from OSDS**

#### BAT Review Team

- Dr. Ching-Tzone Tien, P.E. (MDE/WMA)
- Dr. Ta-Shon Yu, P.E. (MDE/WMA)
- Donald Wilson (Director, Caroline County Environmental Health)
- Shan Abeywickrama (MDE/WMA)

#### Goals of team

 Determine onsite sewage disposal nitrogen reducing technologies that are BAT and grant eligible under the Bay Restoration Fund.

### Eligibility

 Technologies must have undergone an evaluation at least as stringent as required by the EPA's Environmental Technology Verification (ETV) Program.

# MDE

### NSF/EPA ETV Systems

- AQUAPOINT, Inc.
   Bioclere<sup>™</sup> Model 16/12
- BioConcepts, Inc.
   ReCip® RTS ~ 500 System
- Bio-Microbics, Inc.
   RetroFAST® 0.375 System
- F.R. Mahony & Associates, Inc.

  Amphidrome™ Model Single Family System
- SeptiTech® Model 400 System
- Waterloo BioFilter Systems, Inc.
   Waterloo Biofilter Model 4 Bedroom

Source:http://www.epa.gov/etv/verifications/vcenter9-3.html





### Additional Systems

### Systems presented to BAT team under review:

- Norweco, Inc.
   Singulair ® Bio-Kinetic ® System.
- Bio-Microbics, Inc. FAST® System.
- BIONEST, Inc.
   BIONEST® System.
- Lombardo Associates, Inc.
   NITREX ™ Nitrogen Removal Treatment System.





### Committee Reports

- Administrative Costs to Local Government
- Committee Findings and Recommendations





# Administrative Costs to Local Government (due by 12/31/06)

- Reasonable Costs up to 5 percent
  - Maryland Association of Counties and the Maryland Municipal League
  - Evaluate Summary Tables from the Comptrollers Office





# Committee Findings and Recommendations

(yearly beginning January 1, 2006)

- Cost Analysis
- Appropriate fees for SFY 2008
- OSDS Education and Outreach





# Committee Findings and Recommendations

(yearly beginning January 1, 2006)

- Availability of funds for Supplemental Assistance to smaller disadvantaged communities
- Adoption of Regulations

