



Town of

*Orleans*  
Massachusetts

# Orleans Water Quality Advisory Panel

## Water Quality and Wastewater Planning Program Status Update

April 20, 2016

# Agenda

- ❖ Approval of Meeting Minutes of February 17, 2016 & March 16, 2016
- ❖ USGS Namskaket Marsh Study Update
- ❖ Meetings & Coordination
- ❖ Tri-Town Septage Plant Closure and Decommissioning Update
- ❖ Financial Plan Update
- ❖ FY17 Work Plan, Budgets and Time Frame
- ❖ Break
- ❖ Consensus Agreement: Discussion and Consensus Vote
- ❖ Public Information Activities
- ❖ Other Items
- ❖ Public Comment





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# USGS Namskaket Marsh Study Update

# Meetings and Coordination

- ❖ Meeting with Governor's Office on Exit 12 permission to test
- ❖ Meeting with DEP and EOEEA on short- and long-term grant or debt-forgiveness prospects
- ❖ Meeting with Rural Development Administration
  - Orleans qualifies based on MHI
  - \$12-13 M available statewide
  - Potential for \$2.5 M per year for multiple years
  - 75% loan / 25% grant
  - Loan at 1.75 %
  - Useful for design funding
  - Application by October 1, 2016
- ❖ Cape Cod Commission Court Ordered Submission of Watershed Plans by June 30, 2016



# Tri-Town Septage Plant Closure and Decommissioning Update

1. Tri-Town District IMA and Permit will expire on December 31, 2016
2. Three Towns have voted not to fund interim improvements estimated at ~\$1,000,000 for a 5-year extended life
3. Towns and BOM voted to cease receipt of septage on June 1, 2016
4. Plant decommissioning will take about 3-months
5. Towns voted to extend 3-month salary retention offer to employees to stay at the plant to conduct plant decommissioning process
6. Design of demolition will be procured and contracted after May 2016 Town Meeting and take about 5 months
7. Bid in hand for demolition by March 1, 2017 to allow Town Meeting Appropriations (Brewster, Eastham, and Orleans)
8. Preparing schedule of activities



# Financial Plan Update

- ❖ Allocating downtown capital costs by water usage and “value” to businesses
- ❖ Running scenarios using federal, state, or regional sales taxes
- ❖ Producing best “reasonably optimistic” scenario – outlining assumptions and priorities
- ❖ Completing affordability study based on EPA, state and local metrics





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# FY17 Work Plan Budgets and Time Frame

Effluent Disposal  
Public-Private Partnership  
NT Technology Demonstration Projects  
Monitoring  
Miscellaneous

# FY17 Work Plan Budgets and Time Frame

- ❖ Budget - \$691,500 (June 2016 to October 2016)
  - Traditional Technologies - \$46,500 → \$51,500
  - Non-Traditional Technologies - \$431,000 → \$431,000
  - Monitoring - \$58,000 → \$77,500
  - PM, Financial, Public Engagement, Regulatory & Miscellaneous - \$156,000 → \$131,500
  
- ❖ Schedule
  - May 9, 2016 Town Meeting / May 17, 2016 Election/Vote
  - Interim work to begin end of May 2016
  - Fall 2016 Special Town Meeting to approve on-going activities





# FY17 Interim Budgets - Traditional Projects

## ❖ Effluent Disposal - \$20,000

- Preliminary environmental evaluations of potential effluent discharge sites at Exit 12, Parcel 1/1A, and Downtown Sites, as required

## ❖ Public-Private Partnership - \$31,500

- Develop allocations of capital and operating costs to commercial downtown properties based on water usage. Estimate value of town wastewater systems to categories of businesses to determine whether public or private ownership of facilities is most cost effective to the Town.
- Conduct preliminary negotiations with selected developers/businesses to determine viability and terms and conditions of Public-Private investment in downtown system considering D/D and D/B/O options
- Evaluate with private partners issues such as ownership of land and/or facilities; responsibilities and risk in event of default of dischargers, non-compliance of facilities, design life and credits for existing facilities, phasing of implementation due to development projections)



# FY17 Interim Budgets - NT Projects

- ❖ FCW - \$40,000
  - Investigate FCW capital and operating costs and performance effectiveness
  - Evaluate emerging I/A and other NT alternatives to FCWs
  - Recommend additional NT demonstration project with work plan
- ❖ PRB - \$221,000
  - Eldredge Park PRB - Design and implementation of demonstration project
  - Town Landfill (Town Cove) PRB - Design of demonstration project
- ❖ Shellfish/Aquaculture - \$170,000
  - Lonnie's Pond – Design and implementation of demonstration project with floating bags using single, 0.5 to 1.5 inch oysters
  - Quanset Pond – Begin design of oyster bed demonstration project
  - Town Cove - Quahog Population Inventory in preparation for Quahog propagation project
  - Working with existing growers to expand grant operations, including in Town Cove



# FY17 Interim Budgets – Monitoring & Modeling

- ❖ Water Quality Monitoring for MEP Compliance - \$24,000
  - Ongoing coordination with SMAST and other WQ monitoring programs
  - Planning data base integration and management
  
- ❖ Water Quality Monitoring for NT Project Baselines - \$39,500
  - Coordination and oversight of of monitoring program to collect required baseline data for NT project design
  - SMAST technical and monitoring support
  
- ❖ Nauset Estuary Increased Monitoring - \$14,000
  - For MEP compliance and MEP model recalibration



# FY17 Interim Budgets - Miscellaneous

- ❖ Cedar Pond Single EIR
  - \$35,000
- ❖ Technical Oversight and Project Management
  - \$48,000
- ❖ Public Engagement Coordination
  - \$20,000
- ❖ Financial Modeling Analysis
  - \$23,500
- ❖ Regulatory Coordination
  - \$5,000





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Break



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# Consensus Agreement: Discussion and Consensus Vote

# Summary of Current WQ & Wastewater Management Plan

- ❖ One page summary description and map of plan as currently configured
- ❖ Discussion of Consensus Plan
- ❖ Expectations and requirements of Cape Cod Commission and DEP



# Public Information Activities

- ❖ Public Information Program Summary Report
  - OWQAP and Constituents
  - Minutes of Meetings
  - Future Public Relations Activities
  
- ❖ Funding Approval
  - June 2016 to October 2016 – May 9, 2016 Town Meeting and May 17, 2016 Election/Vote
  - November 2016 to June 2017 – Fall 2016 Special Town Meeting
  
- ❖ Others?





# Other Items and Public Comment

## ❖ Comments and Questions





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Thank You