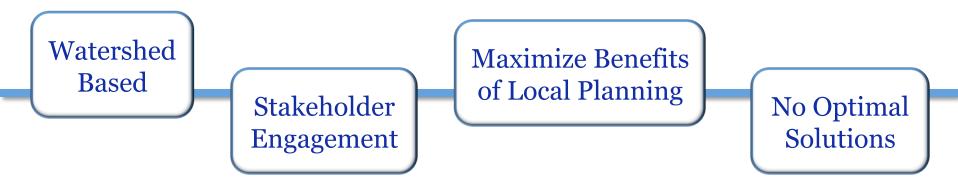
# Mid Cape Sub Regional Group



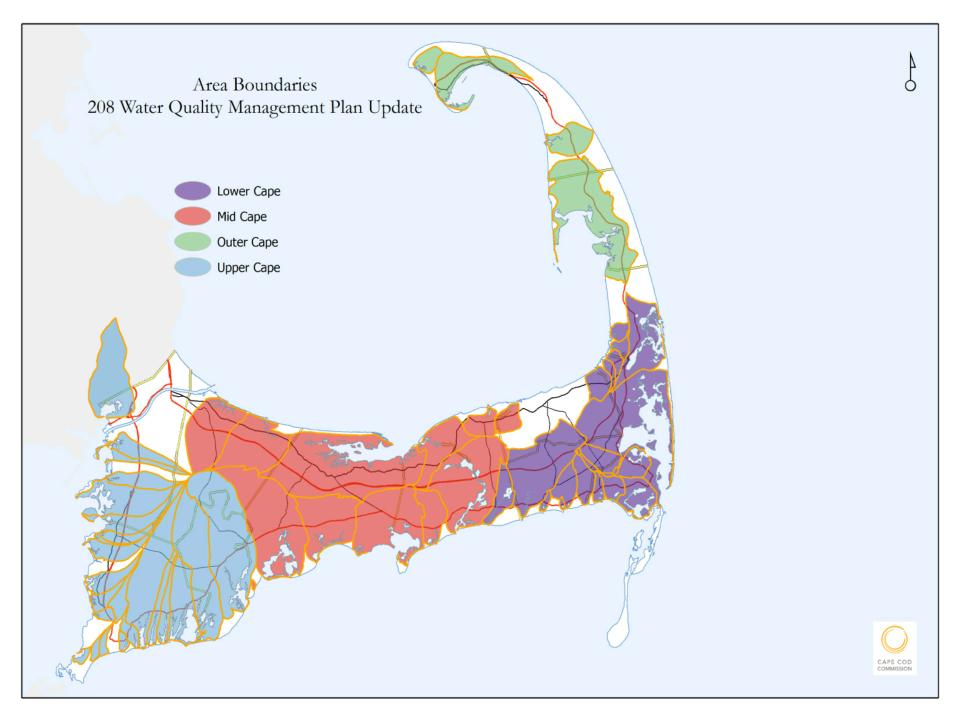
Meeting 1

# Approach to the 208 Plan Update



#### **Goal:**

To generate a series of approaches in each watershed that will meet water quality standards



#### **Public Meetings**

#### Watershed Working Groups



July August September October December

#### **Watershed Working Group Process**

## **Standing Sub Regional Meeting Topics**

Scenario Planning Regulatory, Legal, Institutional

Implementation

Mtg. 1	One representative watershed	Challenges & opportunities associated with permitting the watershed scenario	Adaptive management plans	
Mtg. 2	All shared watersheds & TBL model	Tools to support intermunicipal cooperation	Monitoring	
Mtg. 3	Subregional scenarios & TBL model	Structures for permitting	Financing & affordability	

# **Standing Sub Regional Meeting Topics**

Scenario Planning Regulatory, Legal, Institutional

Implementation

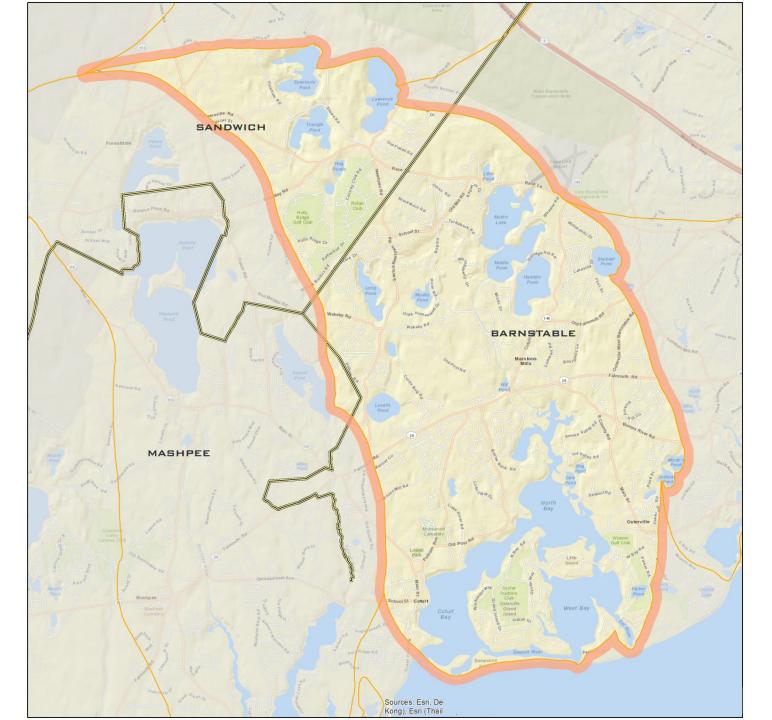
#### **Meeting 1 Goals:**

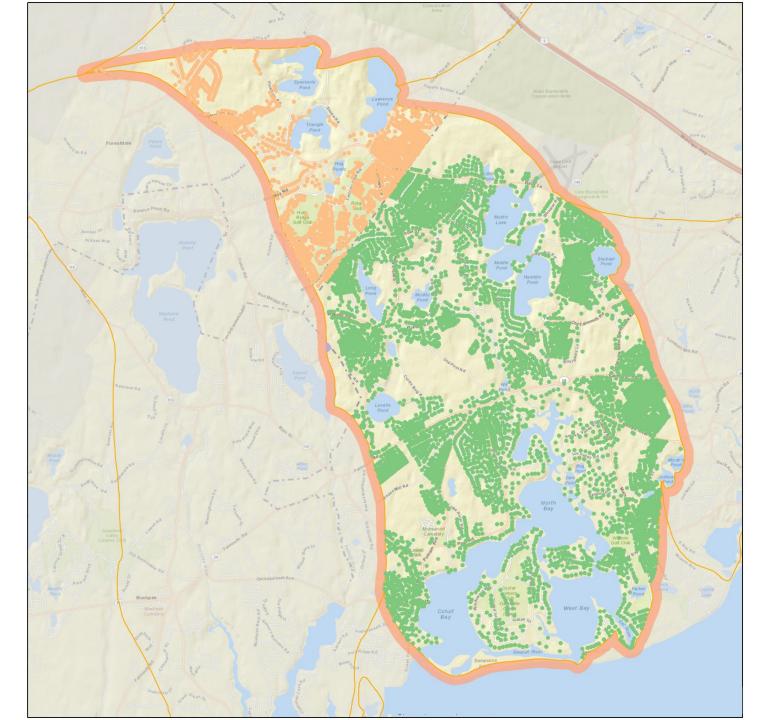
Identify regulatory, legal, and institutional challenges, constraints, and opportunities associated with the 208 Plan approach for water quality

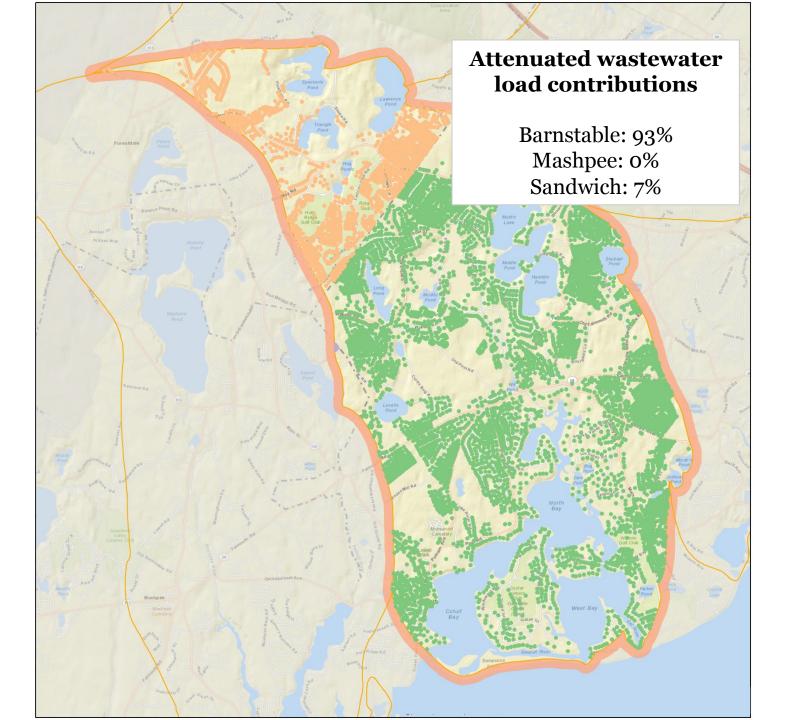
Clarify the definition and components of an adaptive management plan that can be permitted

# **Scenario Planning**

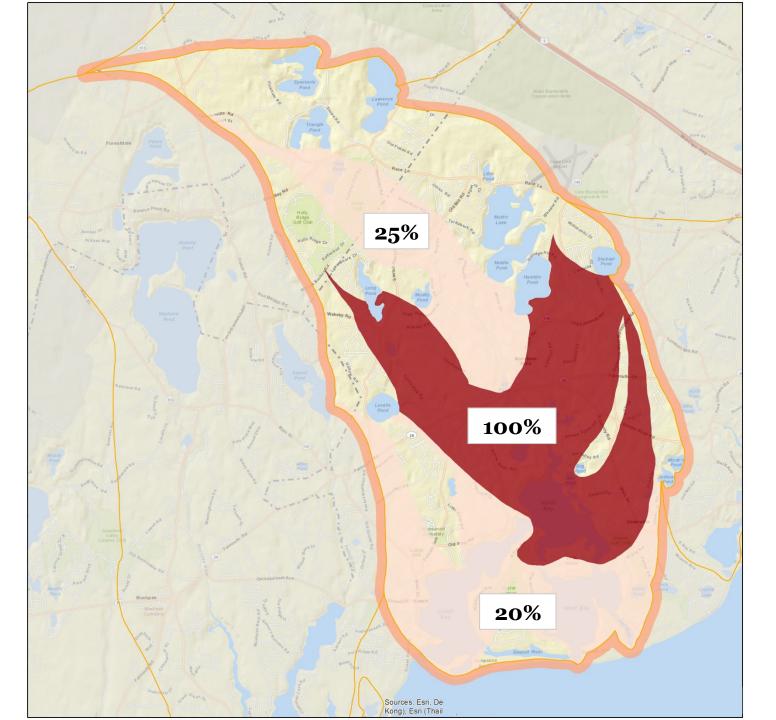
**Three Bays** 











# Graditional Approach

MEP Nitrogen Reduction **Targets** 

Targeted Collection/ Maximum Collection Footprint

> Targeted Collection with Fertilizer and Stormwater Reduction

> > Minimized Collection **Footprint**

Non-Traditional Approach

Fertilizer Reduction

Stormwater Reduction

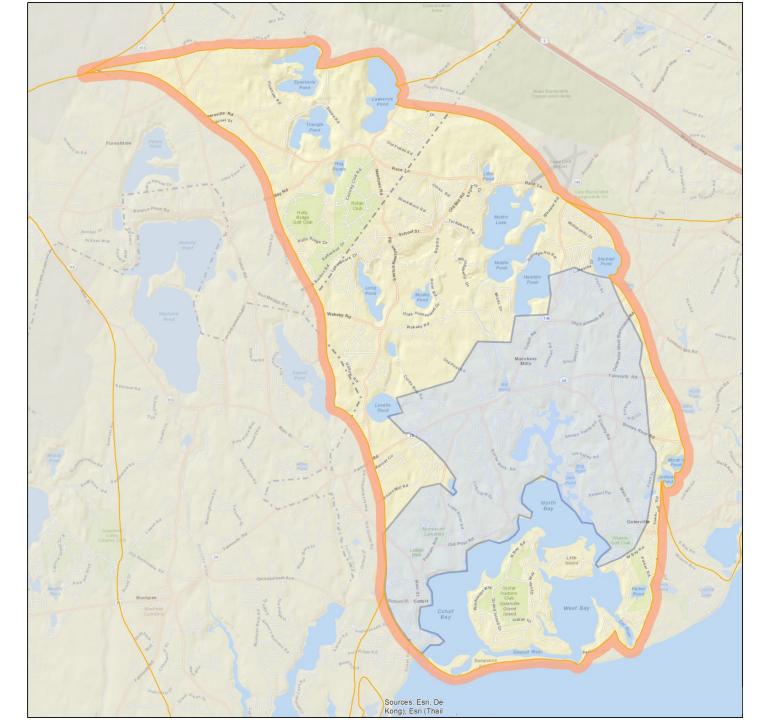
Implementation

Watershed Embayment **Options** 

Alternative On-Site **Options** 

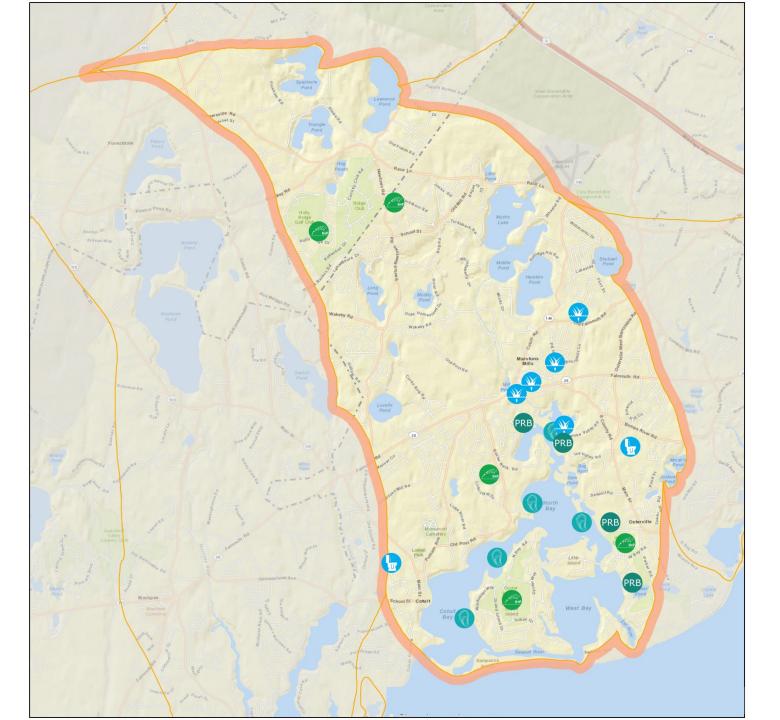
Minimum Collection **Footprint** 











	Federal		DEP		MADOT	вон	ConComm	MEPA
	CWA	GWDP	WMA	I&A		Title 5	WPA	Thresholds
Technology/Approach								
Stormwater Mngmnt								
Fertilizer Mngmnt								
Oyster/Aquaculture								
Ecotoilets								
PRBs								
Constructed Wetlands								
Fertigation Wells								
Phytoremediation								
Habitat Restoration								
Inlet Widening								
Dredging								

Additional permits may apply. Other agencies involved could include:

- MA Natural Heritage and Endangered Species Program
- MA Historical Commission
- US Fish & Wildlife Service/Division of Marine Fisheries

# Regulatory, Legal, and Institutional Interactions

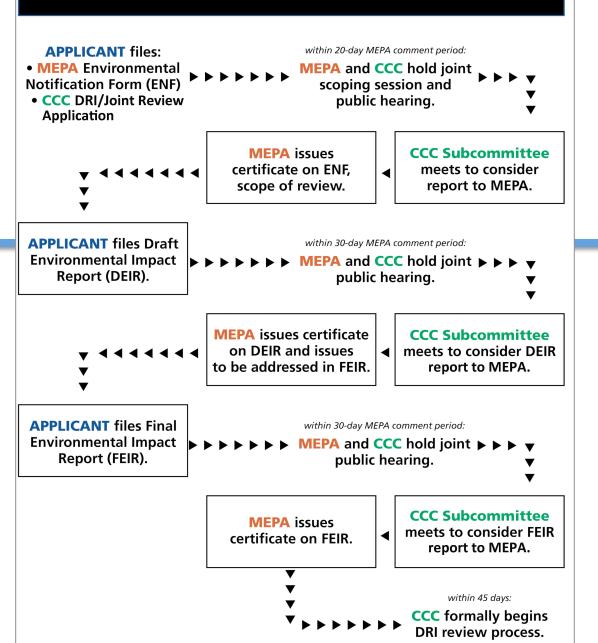
What are some of the hurdles and opportunities associated with permitting the above scenarios?

# **Regulatory Purposes**

MEPA CCC DEP

#### **Joint MEPA/CCC Review:**

**Projects Requiring Environmental Impact Report (EIR)** 



Traditional technology permitting path

Fertilizer and stormwater reduction credit

Alternative technology permitting paths

## **Need for Permitting Flexibility**

# MEPA Certificate for Falmouth CWMP

"Adaptive management acknowledges the uncertainties in design and implementation of projects, carefully monitors outcomes, assesses progress in a transparent fashion and requires recalibration of plans and projects as necessary."

"The FEIR represents an evolution towards the development and implementation of a Targeted Watershed Management Plan for each of the Town's coastal watersheds and includes concrete commitments to projects...that will provide significant reductions in nitrogen loading."

The Secretary certified the plan "to support the towns adaptive management approach to developing long-term solutions and in acknowledgement of the town and its residents concrete support for projects that will reduce nitrogen in the short-term."

"MassDEP comments indicate that an approvable TWMP will satisfy SRF requirements necessary to secure 0% financing."

## **MEPA/CCC Special Review Procedure**

# Regulatory, Legal, and Institutional Interactions

What are some of the hurdles and opportunities associated with permitting the above scenarios?

# **Implementation**

What components of an adaptive management plan are needed to achieve permitability and water quality goals?

# **Adaptive Management**

#### Definition

A structured approach that monitors outcomes for meeting water quality goals, assesses progress over time, and requires recalibration of plans and projects, as necessary, based on review and evaluation of monitoring.

## All materials and resources for the Mid Cape Sub Regional Group will be available on the Cape Cod Commission website:



http://watersheds.capecodcommission.org/index.php/watersheds/mid-cape/regional-stakeholder-group-mid-cape