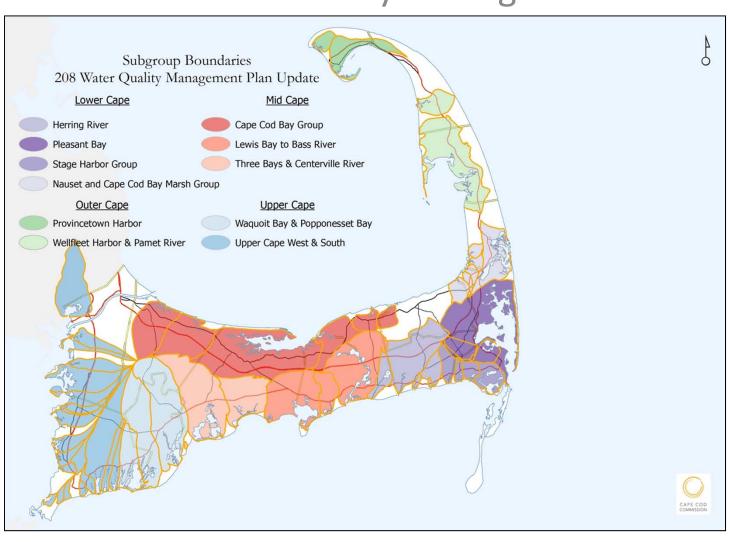
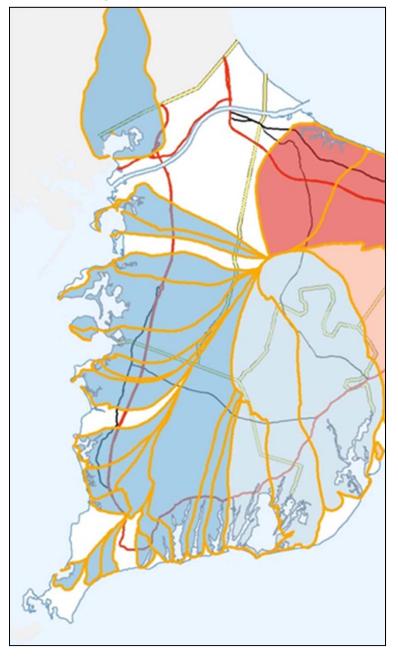
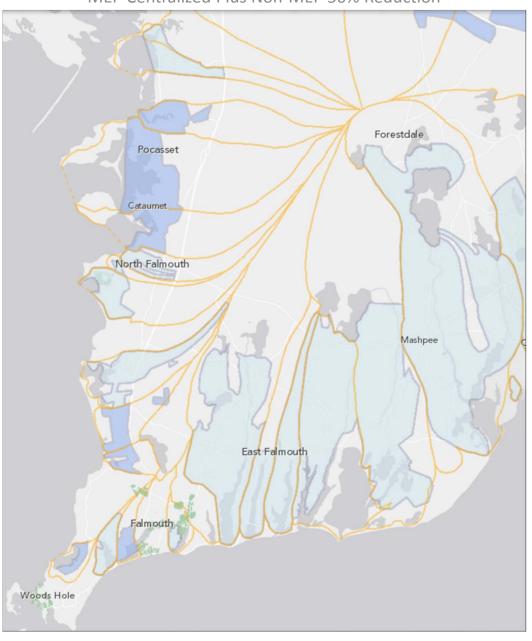
## 208 Plan Update Stakeholder Summit

# Watershed Scenarios Summarized by Subregion

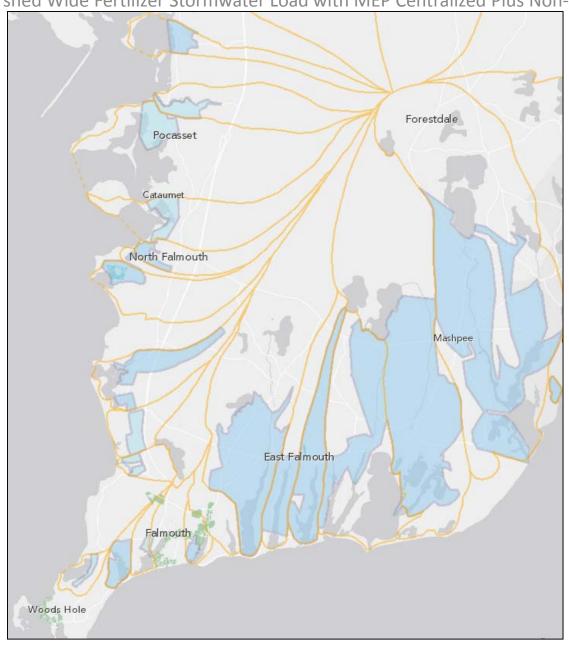




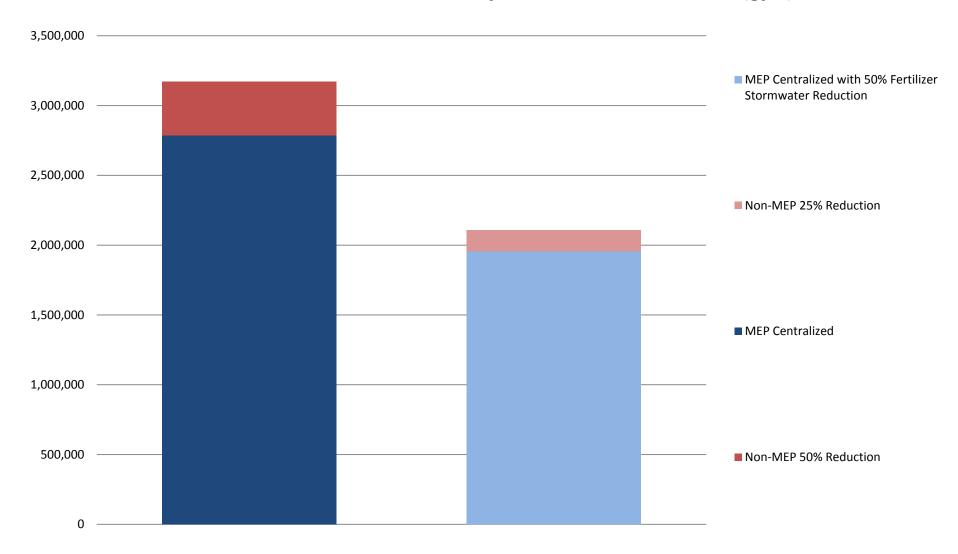
MEP Centralized Plus Non-MEP 50% Reduction



50% Reduction in Watershed Wide Fertilizer Stormwater Load with MEP Centralized Plus Non-MEP 25% Reduction



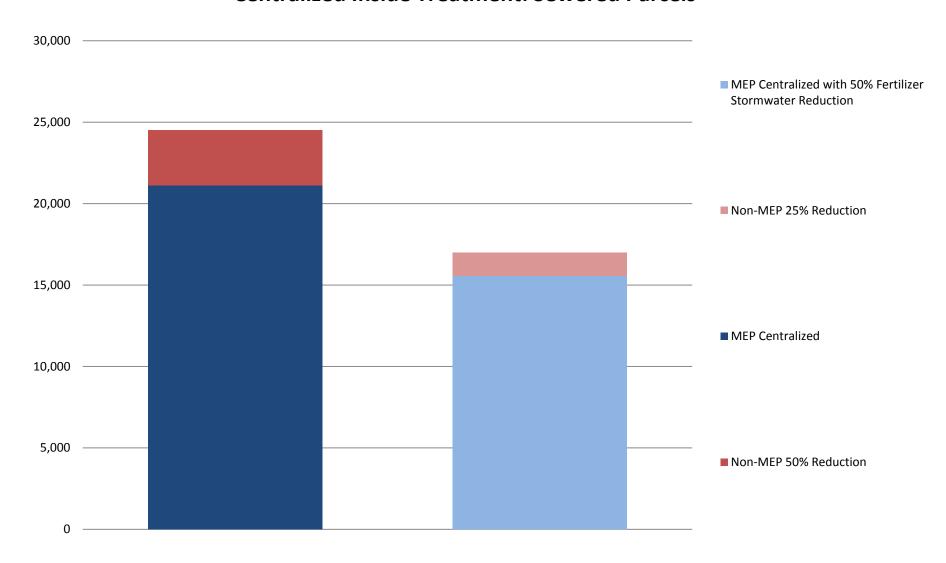
#### **Centralized Inside Treatment: Captured Wastewater Flow (gpd)**



-All MEP Watersheds Sewered to TMDL Compliance

-All Non-MEP Watersheds Sewered for a Reduction in Existing Septic Load

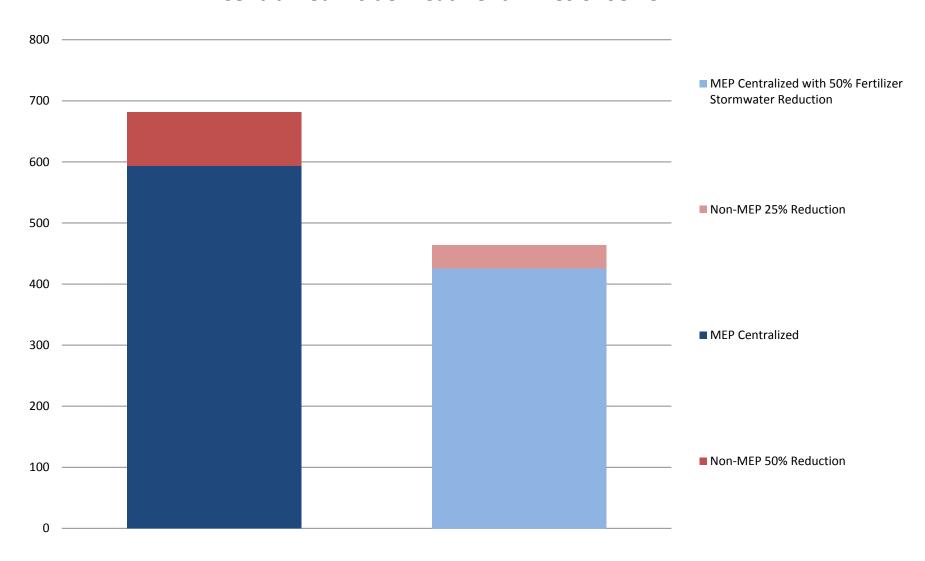
#### **Centralized Inside Treatment: Sewered Parcels**



-All MEP Watersheds Sewered to TMDL Compliance

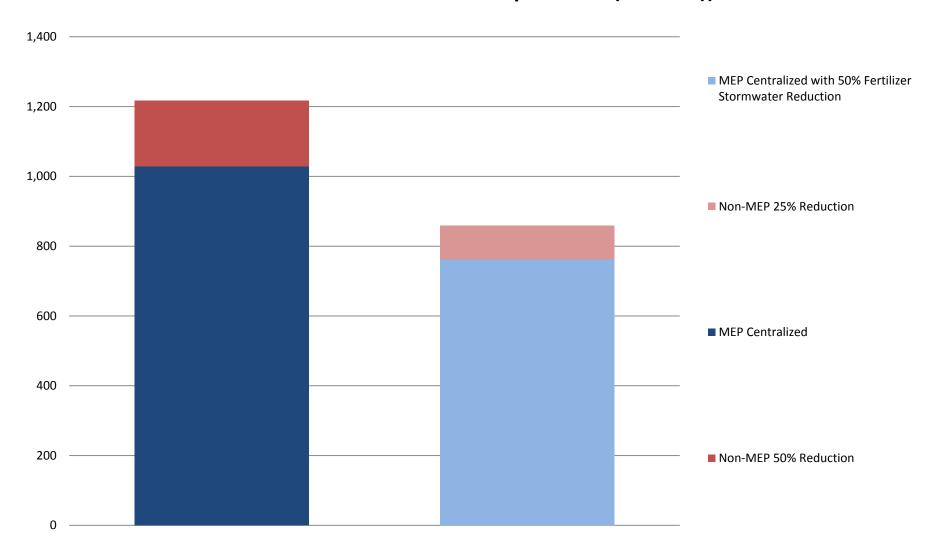
-All Non-MEP Watersheds Sewered for a Reduction in Existing Septic Load

#### **Centralized Inside Treatment: Miles of Sewer**



- -All MEP Watersheds Sewered to TMDL Compliance
- -All Non-MEP Watersheds Sewered for a Reduction in Existing Septic Load

#### **Centralized Inside Treatment: Capital Cost (Millions))**



-All MEP Watersheds Sewered to TMDL Compliance

-All Non-MEP Watersheds Sewered for a Reduction in Existing Septic Load

Existing Water Bodies Regulatory Wastewater Identify Current N Removal Needs (Targets/Reduction Goals) **Present Load: Reduction Required:** Target: X kg/day Y kg/day N kg/day Additional N Removal Needs A. Title 5 Problem Areas C. Growth Management B. Pond Recharge Areas **Low Barrier Technologies** A. Fertilizer Management B. Stormwater Mitigation **Watershed Alternative Technologies** C. Constructed Wetlands A. Permeable Reactive Barriers B. Inlet/Culvert Openings D. Aquaculture **On-Site Alternative Technologies** A. Eco-toilets (UD & Compost) C. Enhanced I/A Technologies B. I/A Technologies D. Shared Systems **Priority Collection/Sewer Areas** A. Greater Than 1 Dwelling Unit/acre C. Economic Centers B. Village Centers D. Growth Incentive Zones **Supplemental Collection / Sewer Areas** 

Summary Table		. ,	1 /1		N. (1 / )
MEP Targets and Goals  Present Total Nitrogen Load		kg/year	kg/day	<u>kg/day</u> 1934.9	<u>Nitrogen (kg/yr)</u> 706,222
Present Total Nitrogen Load	Controllable Nitrogen Load			1934.9	700,222
	Wastewater 501,866		1375.0		
	Fertilizer	100,494	275.3		
	Stormwater	89,912	246.3		
Target Nitrogen Load		7-		1072.7	391,545
Nitrogen Removal Required				862.1	314,677
Total Number of Properties	113,303				
Low Barrier to Implementation	<b>Percent of Total Removed</b>		Reduction b	y Technology (Kg/yr)	Remaining to Meet Target (Kg/yr)
A) Fertilizer Management	50			50,247	264,430
B) Stormwater Mitigation	50			44,956	219,474
Watershed/Embayment Options	<b>Quantity</b>		Reduction b	oy Technology (Kg/yr)	Remaining to Meet Target (Kg/yr)
A) Permeable Reactive Barrier (PRB)	23,569 homes			75,185	144,289
B) Constructed Wetlands (No Collection System)	57 acres			28,250	116,039
C) Constructed Wetlands (With Collection System)	23 acres			11,250	104,789
D) Phytoirrigation	1 acres			6	104,783
E) Phytobuffers	15 acres			330	104,453
F) Fertigation Wells	1,898 acres			7,590	96,863
G) Surface Water Remediation Wetland	4 acres			112	96,751
H) Dredging/Inlet Widening	66,000 cu. yard			0	96,751
I) Phytoremediation	0 acres			0	96,751
J ) Aquaculture/Oyster Beds	185 acres			46,250	50,501
K) Coastal Habitat Restoration	29 acres			3,393	47,108
L) Floating Constructed Wetlands	71,500 cu feet			28,600	18,508
Alternative On-Site Options	<b>Quantity</b> 1		Reduction by	y Technology (Kg/yr)	Remaining to Meet Target (Kg/yr)
A) Ecotoilets (UD & Compost)	3,343 homes			20,060	-1,552
B) UD School or Public Facility	6,700 people			9,648	-11,200
C) I & A Systems	3,485 homes			17,425	-28,625
D) Enhanced I & A Systems	2,742 homes			16,452	-45,077

