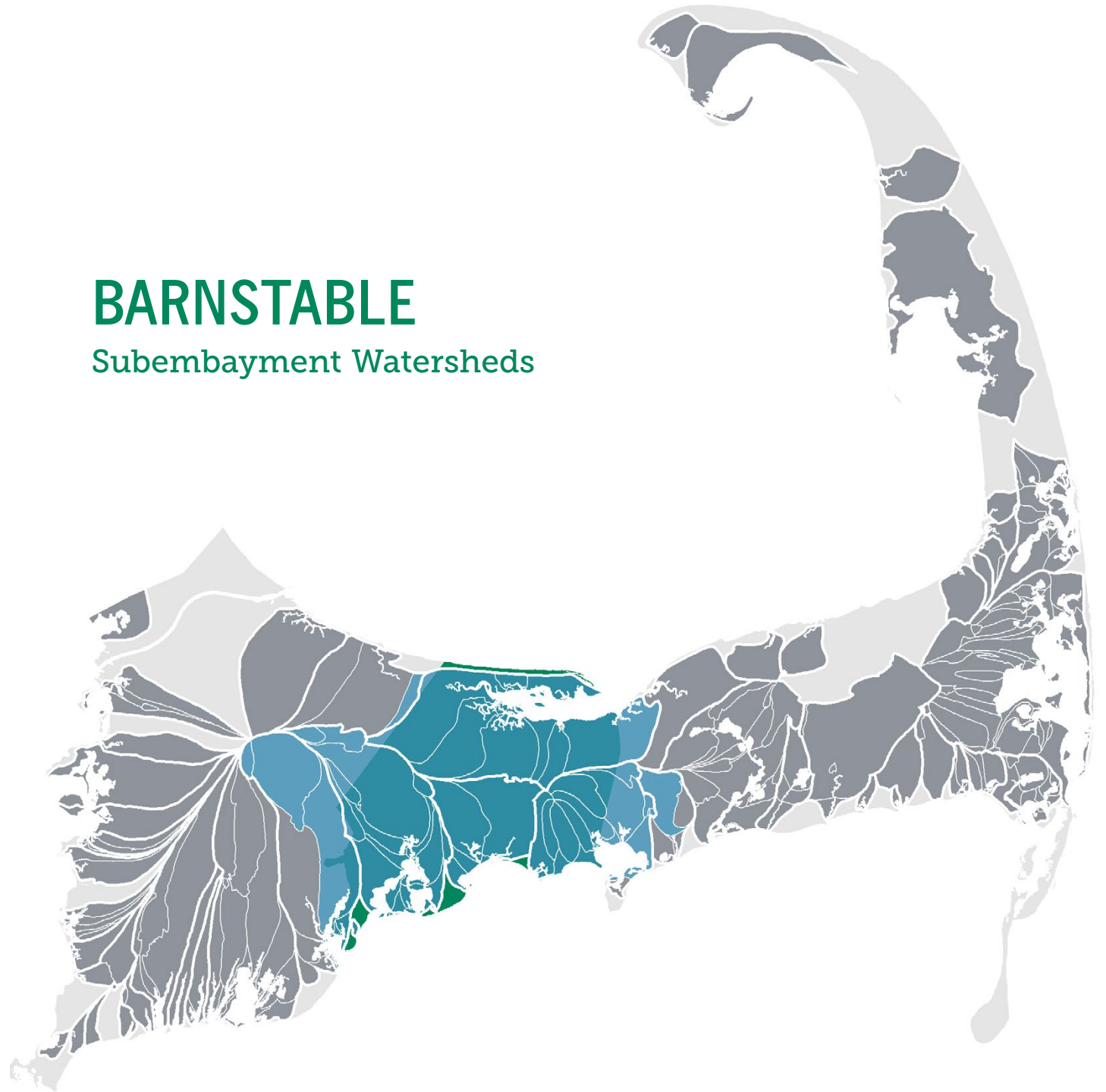


BARNSTABLE

Subembayment Watersheds



* As amended 5 November 2015

To reflect corrected load allocations for the Scorton Creek subembayment within Scorton Harbor. The original report inaccurately attributed 69% of the load to the town of Barnstable.

The following definitions are used to describe nitrogen responsibility:

Unattenuated load: the controllable nitrogen load, in kg, deposited in the watershed

Attenuated load: the controllable nitrogen load, in kilograms (kg), from the watershed that reaches the embayment after the effect of natural attenuation in wetlands or ponds

Threshold: the amount of nitrogen, in kg, that a water body can receive and still meet water quality goals; this number is based on Massachusetts Estuaries Project (MEP) technical reports or Total Maximum Daily Load (TMDL) reports

Reduction target: the amount of nitrogen, in kg, that needs to be removed from the watershed to achieve the threshold; this number is calculated by subtracting the threshold number from the controllable attenuated load

Percent contribution: the percent of controllable attenuated load that a town contributes to the watershed

Kilogram responsibility: is calculated by applying the percent contribution to the reduction target and indicates the amount of nitrogen, in kg, that a community is responsible for addressing

BARNSTABLE HARBOR

SUBEMBAYMENT: BARNSTABLE HARBOR

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
36,557	36,557	N/A	N/A	82%	N/A	Sandwich (4%), Yarmouth (14%)

CENTERVILLE RIVER

SUBEMBAYMENT: CENTERVILLE RIVER EAST

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
27,327	19,236	9,022	10,214	100%	10,214	N/A

SUBEMBAYMENT: CENTERVILLE RIVER WEST

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
3,004	3,004	3,454	N/A	100%	N/A	N/A

SUBEMBAYMENT: EAST BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
3,725	2,863	3,149	N/A	100%	N/A	N/A

SUBEMBAYMENT: SCUDDER BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
19,812	16,235	19,208	N/A	100%	N/A	N/A

BARNSTABLE: Subembayment Watersheds

LEWIS BAY

SUBEMBAYMENT: HALLS CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
7,317	7,317	13,236	N/A	100%	N/A	N/A

SUBEMBAYMENT: HYANNIS INNER HARBOR

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
7,317	6,903	2,716	4,187	83%	3,471	Yarmouth (17%)

SUBEMBAYMENT: LEWIS BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
14,642	14,539	3,527	11,012	25%	2,737	Yarmouth (75%)

SUBEMBAYMENT: MILL CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
14,818	11,928	8,154	3,774	17%	660	Yarmouth (83%)

SUBEMBAYMENT: SIMMONS POND AND WELL

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
654	304	4,330	N/A	100%	N/A	N/A

SUBEMBAYMENT: SNOWS CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
5,043	3,535	5,925	N/A	100%	N/A	N/A

BARNSTABLE: Subembayment Watersheds

SUBEMBAYMENT: STEWARTS CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
20,712	20,026	15,186	4,840	100%	4,840	N/A

PARKERS RIVER

SUBEMBAYMENT: UPPER PARKERS RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
9,124	7,126	3,061	4,065	<1%	11	Yarmouth (>99%)

POPPONESSET BAY

SUBEMBAYMENT: PINQUICKSET COVE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
344	344	277	67	100%	67	N/A

SUBEMBAYMENT: POPPONESSET BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
630	630	664	N/A	35%	N/A	Mashpee (65%)

SUBEMBAYMENT: SHOESTRING BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
22,931	12,947	7,194	5,753	32%	1,829	Mashpee (59%), Sandwich (9%)

BARNSTABLE: Subembayment Watersheds

RUSHY MARSH

SUBEMBAYMENT: RUSHY MARSH POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
78	78	34	44	100%	44	N/A

SCORTON HARBOR *

SUBEMBAYMENT: JONES LANE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
1,922	1,922	3,756	N/A	3%	N/A	Sandwich (97%)

THREE BAYS

SUBEMBAYMENT: COTUIT BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
10,046	8,079	8,153	N/A	95%	N/A	Mashpee (<1%), Sandwich (5%)

SUBEMBAYMENT: NORTH BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
9,977	9,133	1,631	7,502	99%	7,445	Mashpee (<1%), Sandwich (<1%)

SUBEMBAYMENT: PRINCES COVE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
4,953	4,267	792	3,475	92%	3,205	Sandwich (8%)

BARNSTABLE: Subembayment Watersheds

SUBEMBAYMENT: PRINCES COVE CHANNEL

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
2,297	2,088	281	1,807	100%	1,807	N/A

SUBEMBAYMENT: SEAPUIT RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
969	969	1,375	N/A	100%	N/A	N/A

SUBEMBAYMENT: WARRENS COVE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
22,101	10,688	7,582	3,106	81%	2,518	Sandwich (19%)

SUBEMBAYMENT: WEST BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
5,641	5,460	5,829	N/A	100%	N/A	N/A

