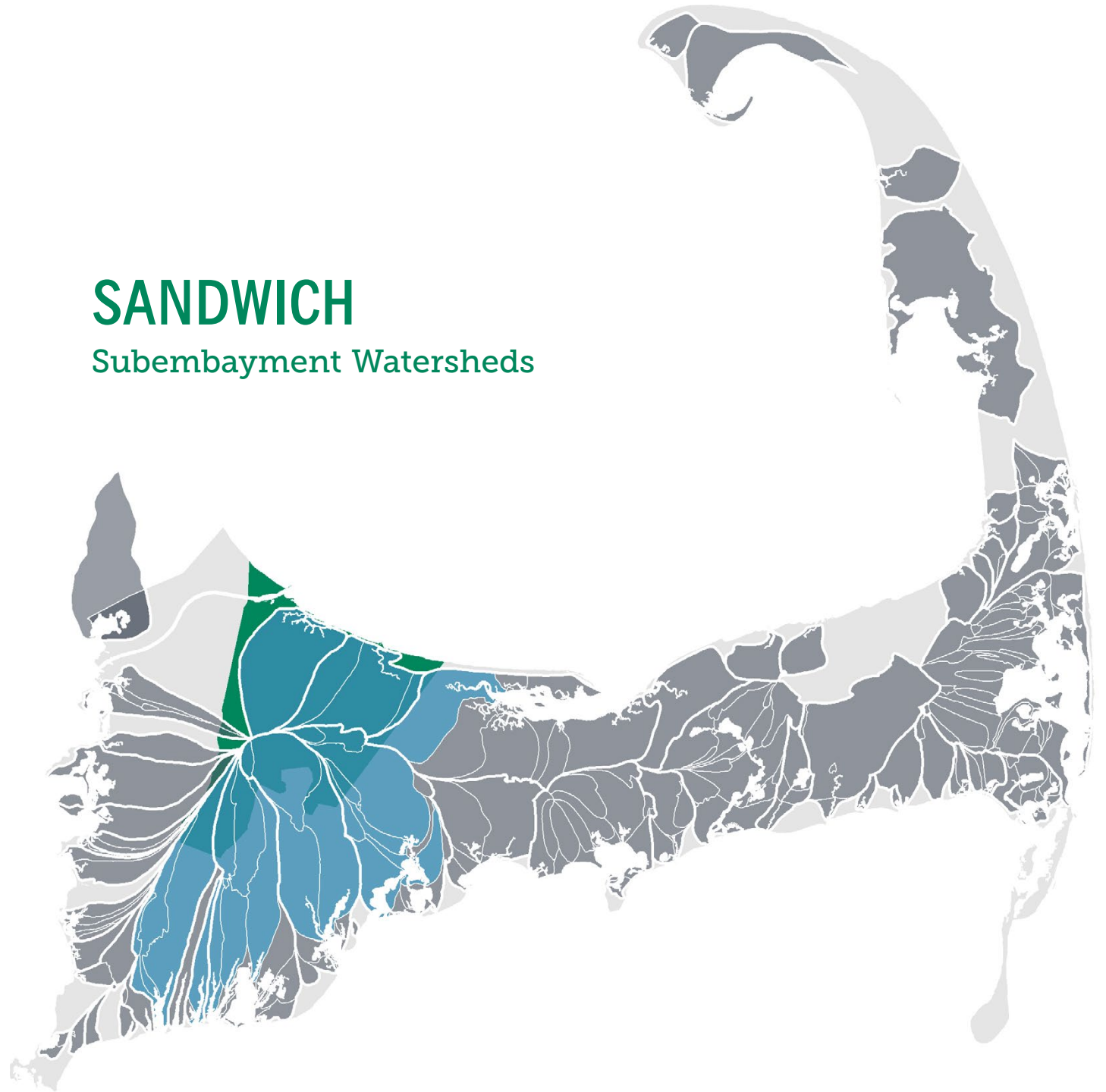


SANDWICH

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	4%	N/A	Barnstable (82%), Yarmouth (14%)

BOURNES POND

SUBEMBAYMENT: BOURNES POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
6,435	5,576	1,197	4,379	<1%	13	Falmouth (99%), Mashpee (<1%)

GREAT POND

SUBEMBAYMENT: GREAT POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
26,264	19,352	6,866	12,486	1%	21	Falmouth (99%)

GREEN POND

SUBEMBAYMENT: GREEN POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
8,713	7,002	3,708	3,294	<1%	22	Falmouth (99%), Mashpee (<1%)

SANDWICH: Subembayment Watersheds

POPPONESSET BAY

SUBEMBAYMENT: LOWER MASHPEE RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
19,624	10,869	5,092	5,777	9%	534	Mashpee (91%)

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	9%	539	Barnstable (32%), Mashpee (59%)

SANDWICH HARBOR

SUBEMBAYMENT: SANDWICH HARBOR

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
14,689	14,689	N/A	N/A	100%	N/A	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	97%	N/A	Barnstable (3%)

SUBEMBAYMENT: LONG HILL CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
8,217	8,217	8,591	N/A	100%	N/A	N/A

SANDWICH: Subembayment Watersheds

SUBEMBAYMENT: SCORTON CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
43,706	43,706	45,349	N/A	100%	N/A	N/A *

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	5%	N/A	Barnstable (95%), Mashpee (<1%)

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	<1%	2	Barnstable (99%), Mashpee (<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	8%	270	Barnstable (92%)

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	19%	588	Barnstable (81%)

SANDWICH: Subembayment Watersheds

WAQUOIT BAY

SUBEMBAYMENT: CHILDS RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
11,339	10,602	2,990	7,612	5%	412	Falmouth (71%), Mashpee (24%)

SUBEMBAYMENT: EEL POND WEST

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
6,895	6,633	3,215	3,418	4%	126	Falmouth (95%), Mashpee (1%)

SUBEMBAYMENT: QUASHNET RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
9,547	8,031	5,463	2,568	17%	431	Falmouth (22%), Mashpee (61%)