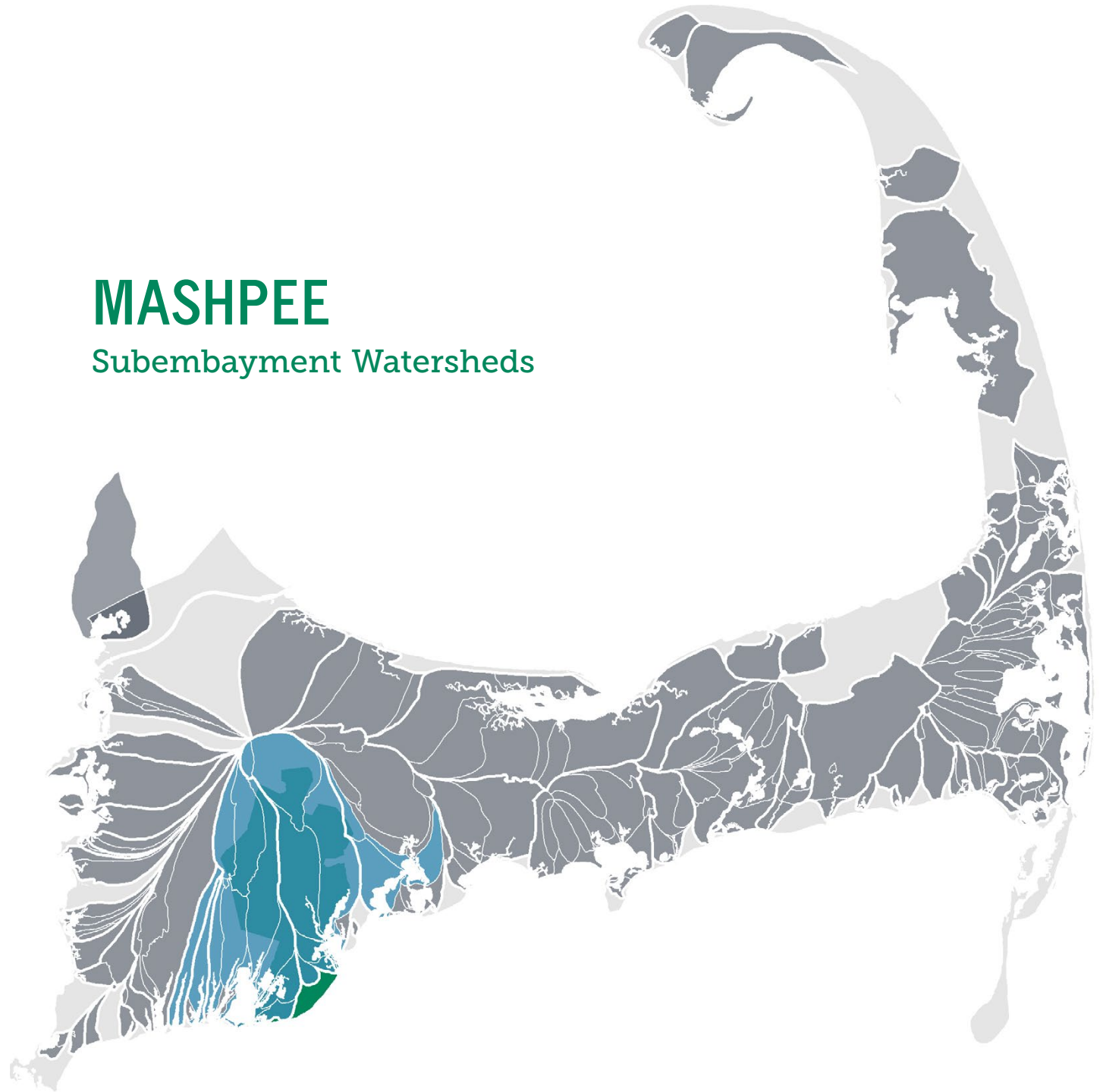


MASHPEE

Subembayment Watersheds



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

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%	4	Falmouth (99%), Sandwich (<1%)

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%	7	Falmouth (99%), Sandwich (<1%)

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	91%	5,243	Sandwich (9%)

SUBEMBAYMENT: OCKWAY BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
1,240	1,240	277	963	100%	963	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	65%	N/A	Barnstable (35%)

MASHPEE: Subembayment Watersheds

SUBEMBAYMENT: POPPONSETT CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
1,892	1,892	347	1,545	100%	1,545	N/A

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	59%	3,386	Barnstable (32%), Sandwich (9%)

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	<1%	N/A	Barnstable (95%), 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	<1%	2	Barnstable (99%), Sandwich (<1%)

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	24%	1,829	Falmouth (71%), Sandwich (5%)

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	1%	41	Falmouth (95%), Sandwich (4%)

MASHPEE: Subembayment Watersheds

SUBEMBAYMENT: HAMBLIN POND AND RED BROOK FRESHWATER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
5,149	5,149	1,113	4,036	69%	2,788	Falmouth (31%)

SUBEMBAYMENT: JEHU POND GREAT RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
2,736	2,736	738	1,998	100%	1,998	N/A

SUBEMBAYMENT: LITTLE RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
352	352	77	275	100%	275	N/A

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	61%	1,568	Falmouth (22%), Sandwich (17%)

SUBEMBAYMENT: SAGE LOT POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
840	840	592	248	100%	248	N/A

SUBEMBAYMENT: WAQUOIT BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
730	730	510	220	18%	40	Falmouth (82%)

