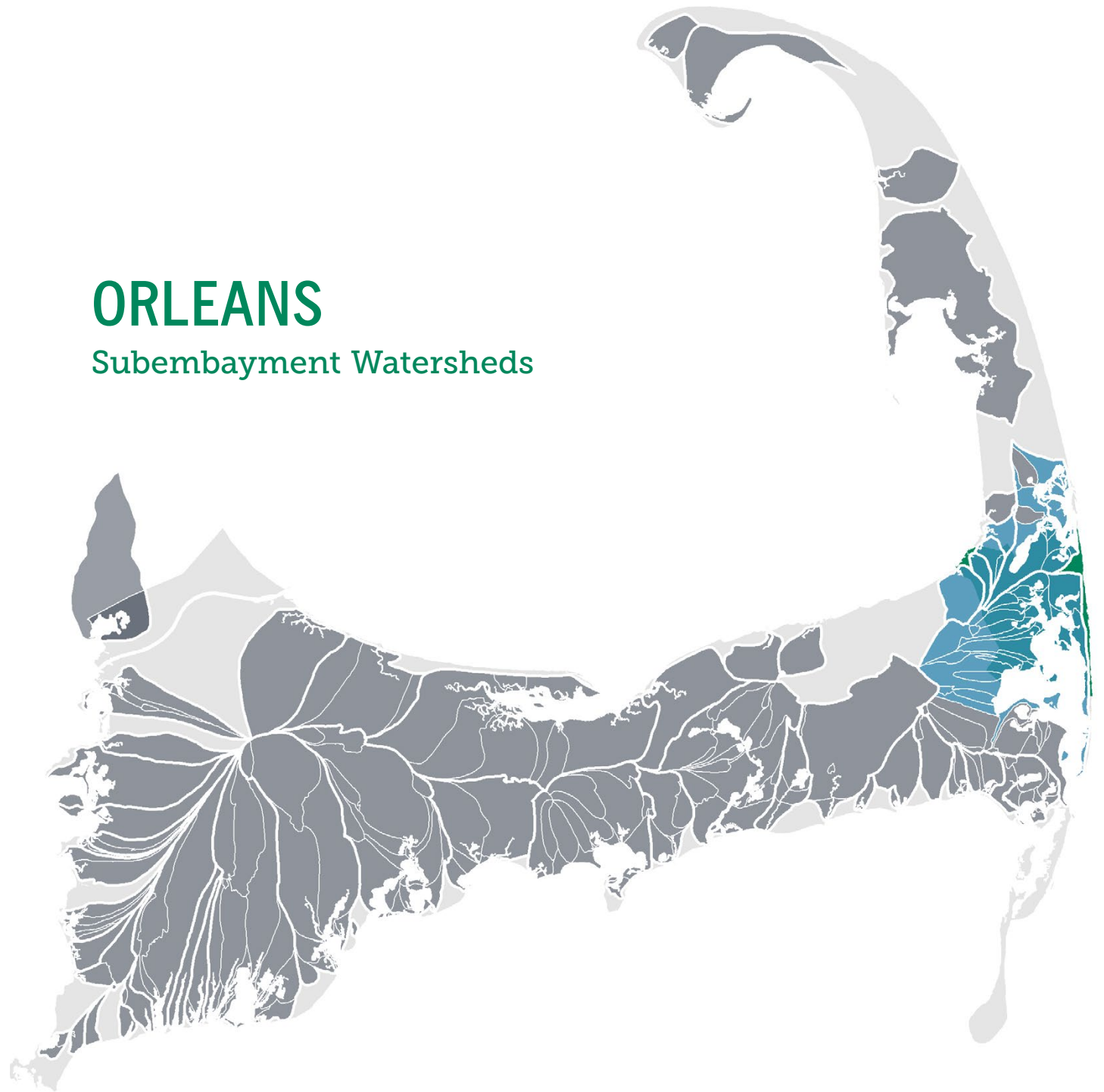


ORLEANS

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

BOAT MEADOW

SUBEMBAYMENT: BOAT MEADOW RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
2,346	2,346	N/A	N/A	4%	N/A	Eastham (96%)

LITTLE NAMSKAKET CREEK

SUBEMBAYMENT: LITTLE NAMSKAKET MARSH

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
2,654	2,616	*-65	0	99%	0	Brewster (1%)

NAMSKAKET CREEK

SUBEMBAYMENT: NAMSKAKET MARSH

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
5,490	3,961	0	0	26%	0	Brewster (74%)

PLEASANT BAY

SUBEMBAYMENT: AREYS POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
519	363	334	29	94%	27	Brewster (6%)

*Has assimilative capacity

ORLEANS: Subembayment Watersheds

SUBEMBAYMENT: KESCAYO GANSETT (LONNIES) POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
789	563	593	N/A	98%	N/A	Brewster (2%)

SUBEMBAYMENT: MEETINGHOUSE POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
2,091	2,091	386	1,705	100%	1,705	N/A

SUBEMBAYMENT: NAMEQUOIT RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
1,024	895	632	263	97%	254	Brewster (3%)

SUBEMBAYMENT: PAW WAH POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
684	684	266	418	100%	418	N/A

SUBEMBAYMENT: PLEASANT BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
13,651	13,237	7,979	5,258	6%	1,635	Brewster (22%), Harwich (41%), Chatham (6%)

SUBEMBAYMENT: POCHET NECK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
2,895	2,848	1,505	1,343	100%	1,343	N/A

SUBEMBAYMENT: QUANSET POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
738	484	394	90	86%	77	Brewster (14%)

ORLEANS: Subembayment Watersheds

SUBEMBAYMENT: TAR KILN STREAM

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
697	697	1,907	N/A	22%	N/A	Brewster (78%)

SUBEMBAYMENT: THE HORSESHOE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
204	204	233	N/A	100%	N/A	N/A

SUBEMBAYMENT: THE RIVER LOWER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
1,217	1,217	892	325	100%	325	N/A

SUBEMBAYMENT: THE RIVER UPPER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
1,460	1,088	634	454	99%	447	Brewster (1%)

ROCK HARBOR

SUBEMBAYMENT: CEDAR POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
2,558	2,557	961	1,596	79%	1,255	Eastham (21%)

SUBEMBAYMENT: ROCK HARBOR

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
899	315	397	N/A	100%	N/A	N/A

ORLEANS: Subembayment Watersheds

TOWN COVE/NAUSET MARSH

SUBEMBAYMENT: MILL POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
1,650	1,650	1,800	N/A	100%	N/A	N/A

SUBEMBAYMENT: NAUSET MARSH

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
5,266	4,923	3,917	1,006	23%	231	Eastham (77%)

SUBEMBAYMENT: RACHEL COVE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
64	64	66	N/A	100%	N/A	N/A

SUBEMBAYMENT: TOWN COVE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
10,427	10,287	3,493	6,794	74%	5,008	Brewster (1%), Eastham (25%)

SUBEMBAYMENT: WOODS COVE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
273	273	274	N/A	100%	N/A	N/A