

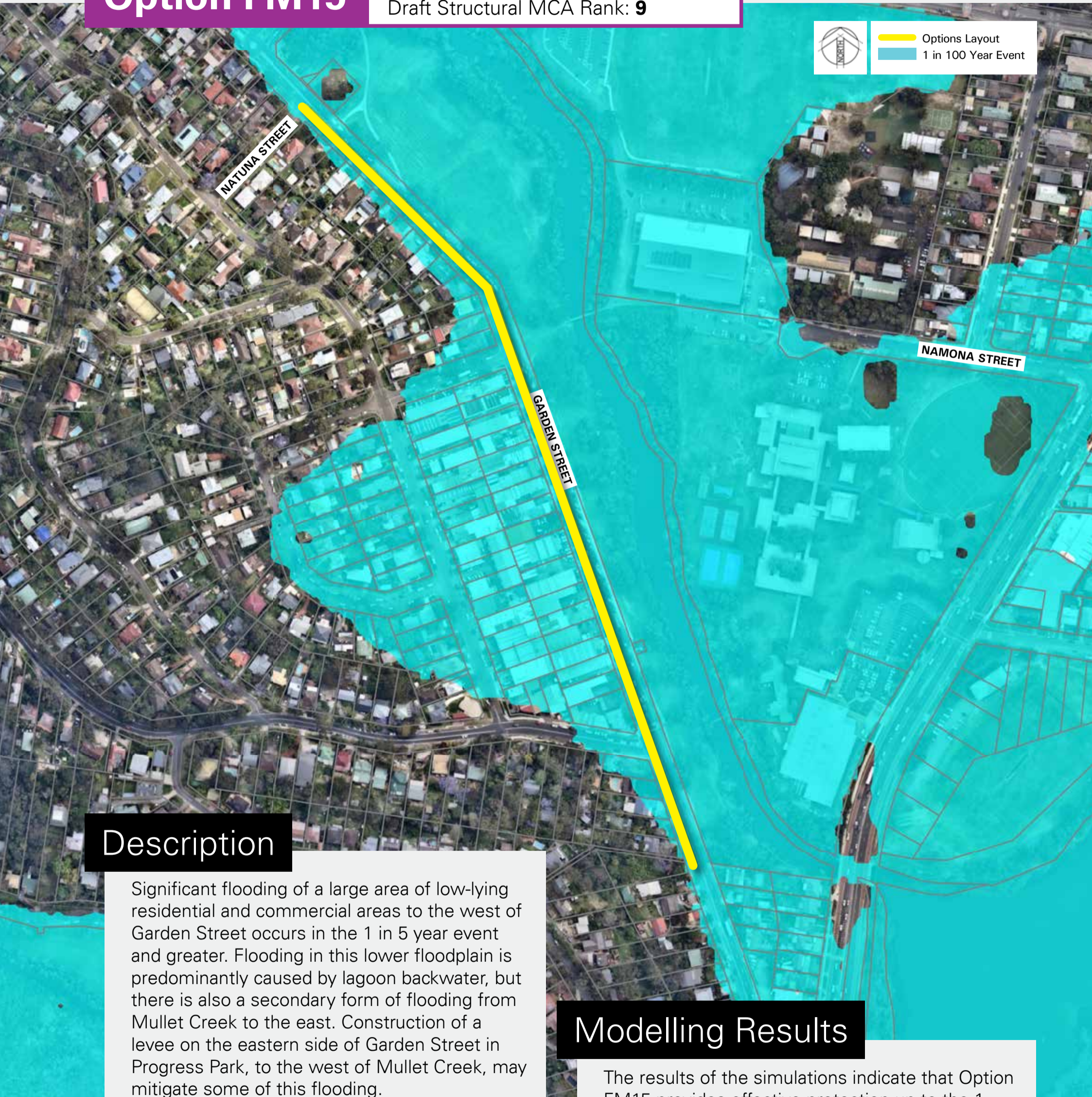
Garden Street Levee



northern
beaches
council

Option FM15

Capital Costs (excl. GST): **\$3,057,000**
Draft Structural MCA Rank: **9**



Description

Significant flooding of a large area of low-lying residential and commercial areas to the west of Garden Street occurs in the 1 in 5 year event and greater. Flooding in this lower floodplain is predominantly caused by lagoon backwater, but there is also a secondary form of flooding from Mullet Creek to the east. Construction of a levee on the eastern side of Garden Street in Progress Park, to the west of Mullet Creek, may mitigate some of this flooding.

Construction of the levee to the 1 in 100 year level would require raising the existing ground level about 1.5 – 1.7 m over a distance of approximately 700 m. This option would address both Mullet Creek flooding and Narrabeen Lagoon flooding for properties west of Garden Street.

Modelling Results

The results of the simulations indicate that Option FM15 provides effective protection up to the 1 in 100 year event for properties west of Garden Street (59 properties protected). The results also indicate that the addition of the levee has minimal impact on the overall flood storage of the lagoon, and so negligible impact on flood levels elsewhere in the lagoon (<0.01 m).