# Shoreline Areas Vulnerable to Sea Level Rise: 2040-2060

### Metropolitan Transportation Commission

Planning, Financing and Coordinating Transportation for the nine-county San Francisco Bay Area

Geographic Information Systems Unit

Attachment 7

See reverse

for chart



### **Transportation Infrastructure Vulnerable** to Sea Level Rise



Note: According to a report being prepared by the Bay Conservation and Development Commission (Living with a Rising Bay: Climate Change Impact on San Francisco Bay and Adaptation Strategies, available in 2006), the sea level in the Bay could rise a foot or more, inunciating some communities and covering both the San Francisco and Odaktrad largonds, state highways, and shown for reference purposes only.

Source: MTC in collaboration with the San Francsico Bay Conservation and Development Commission. Inundation data provided by Dr. Noah Knowkes, U.S. Geological Survey, with Inuting from the California Energy California Climate Charge Canter at Scripps Institution of Oceanography, and from the CALIFED Science Program CASCaDE Project. Additional sait pond data provided by Seigel and Bachand, 2002.

Cartography: MTC GIS, TeleAtlas January 2008.

Scale:

1 in = 8 miles



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Research and Demographic Unit

(M) Metropolitan Transportation Commission

Planning, Financing and Coordinating Transportation for the nine-county San Francisco Bay Area

Geographic Information Systems Unit

Attachment 7 Counties See reverse for map **Total infrastructure** at risk (mi.) Existing Future Alameda Rail 58.2 Road Transit 40.1 Road Contra Costa Rail 16.0 Road Transit 5.1 Road Marin Rail 103.9 Road Transit 112.1 Road Napa Rail 7.0 Road Transit 1.1 Road San Francisco Rail 2.5 Road Transit 2.11 Road San Mateo Rail 291.4 Transit 76.7 Road Santa Clara Rail 104.9 Road Transit 71.0 Road Solano Rail 60.0 Road Transit 18.7 Road Sonoma Rail 27.4 Road Transit 10.2 Road 0 20 40 60 80 100 120 290 Length in Miles

Map of the Month: June 2009

A report currently being prepared by the Bay Conservation and Development Commission, "Living with a Rising Bay: Climate Change impacts on the San Francisco Bay and Adaptation Strategies, highlights areas in the Bay Area vulnerable to sea level rise. Both existing and future regional transportation infrastructure could be seriously affected by such an event. This chart highlights these possible effects by showing the impact of sea level rise within the counties surrounding the San Francisco bay. The total number of affected miles for existing and future transportation infrastructure is also included.

#### Note:

This chart identifies linear assets such as roads and rail lines. Additionally, only projects that could be categorized into either road, rail or transit were included for consideration as future infrastructure. This analysis also shows an impact on some airports and seaports due to sea level rise.