Conceptual Adaptation Scenario - Bayshore Waterfront

November 6, 2019
Conceptual Adaptation Scenario - Lower Navesink

Region-Wide Actions:
- Bayshore and Estuary Restoration and Green Infrastructure Development
- Retrofit Waterfront Assets
- Inland Shore and Extension of Recreation Area

Region-Wide Policies:
- Permanent Inundation Master Plan
- Home Raising

Sub-Region Actions:
- Near Term Raising Bulkheads, Roads and Homes
- Building Flood Gate, Focusing on Sea Level Rise
- New Inland Shore and Expansion of National Park

Permanent Inundation:
- El +7' once a year: 2%
- El +7' once a year: 4%
- El +7' once a year: 100%
Conceptual Adaptation Scenario - Shrewsbury River, Sea Bright / Monmouth Beach

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Conceptual Adaptation Scenario - Shrewsbury River, Sea Bright / Monmouth Beach

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Conceptual Adaptation Scenario - Downtown Highlands
Permanent Inundation: 1.1’
Probability of TWL reaching El +7’ once a year: 2%
**REGION-WIDE ACTIONS**

1. Bayshore and Estuary Restoration and Green Infrastructure Development
2. Critical Facilities Planning / Protection
3. Retrofit Waterfront Assets
4. Near Term Storm Surge and Flood Protection
5. Inland Shore and Extension of Recreation Area
6. Targeted Road Raising

**REGION-WIDE POLICIES**

1. Permanent Inundation Master Plan
2. Resilient Smart Growth
3. Home Raising

**SUB-REGION ACTIONS**

- Permanent Inundation
- Probability of TWL reaching El +7' once a year: 4%
Critical Facilities Planning / Protection
Retrofit Waterfront Assets
Inland Shore and Extension of Recreation Area
Targeted Road Raising
Resilient Smart Growth
Home Raising
Permanent Inundation: 5.3’
Probability of TWL reaching EL +7’ once a year: 100%
PERMANENT INUNDATION: 1.1'
Probability of TWL reaching EL +7’ once a year: 2%

REGION-WIDE ACTIONS
1 Bayshore and Estuary Restoration and Green Infrastructure Development
3 Retrofit Waterfront Assets

REGION-WIDE POLICIES
6 Permanent Inundation Master Plan
9 Home Raising

SUB-REGION ACTIONS
2030 NEAR TERM RAISING BULKHEADS, ROADS AND HOMES
Permanent Inundation: 2’
Probability of TWL reaching EL +7’ once a year: 4%
Permanent Inundation: 5.3’
Probability of TWL reaching EL +7’ once a year: 100%

REGION-WIDE ACTIONS
1 Bayshore and Estuary Restoration and Green Infrastructure Development
3 Retrofit Waterfront Assets
7 Inland Shore and Extension of Recreation Area

REGION-WIDE POLICIES
8 Permanent Inundation Master Plan
8 Resilient Smart Growth

SUB-REGION ACTIONS
Permanent Inundation: 1.1’
Probability of TWL reaching EL +7’ once a year: 2%

REGION-WIDE ACTIONS
1. Bayshore and Estuary Restoration and Green Infrastructure Development
2. Critical Facilities Planning / Protection
3. Retrofit Waterfront Assets
4. Near Term Storm Surge and Flood Protection
5. Inland Shore and Extension of Recreation Area
6. Targeted Road Raising

REGION-WIDE POLICIES
7. Permanent Inundation
   Master Plan
8. Home Raising

SUB-REGION ACTIONS

2000 MHHW
Building Flood Gate, Focusing on Sea Level Rise 2050

Permanent Inundation: 2'
Probability of TWL reaching EI +7' once a year: 4%

1. Bayshore and Estuary Restoration and Green Infrastructure Development
2. Critical Facilities Planning / Protection
3. Retrofit Waterfront Assets
4. Flood gate at the Rumson-Sea Bright Bridge
5. Near Term Storm Surge and Flood Protection
6. Resilient Smart Growth
7. Inland Shore and Extension of Recreation Area
8. Permanent Inundation Master Plan
9. Home Raising
10. Targeted Road Raising

Region-wide Actions

Region-wide Policies

Sub-region Actions

_REGION-WIDE ACTIONS_
Permanent Inundation: 5.3’
Probability of TWL reaching EL +7’ once a year: 100%

**REGION-WIDE ACTIONS**
1. Bayshore and Estuary Restoration and Green Infrastructure Development
2. Critical Facilities Planning / Protection
3. Retrofit Waterfront Assets
4. Inland Shore and Extension of Recreation Area
5. Targeted Road Raising

**REGION-WIDE POLICIES**
6. Permanent Inundation Master Plan
7. Resilient Smart Growth
8. Home Raising

**SUB-REGION ACTIONS**
9. Resilient Smart Growth
10. Home Raising
11. Critical Facilities Planning / Protection
2030 SELECTIVE ROAD & HOME RAISING AND RETROFIT WATERFRONT ACCESS

REGION-WIDE ACTIONS
3 Retrofit Waterfront Assets
7 Inland Shore and Extension of Recreation Area

REGION-WIDE POLICIES
6 Permanent Inundation Master Plan
8 Resilient Smart Growth
9 Home Raising

SUB-REGION ACTIONS

Permanent Inundation: 1.1’
Probability of TWL reaching El +7’ once a year: 2%
Retrofit Waterfront Assets
Inland Shore and Extension of Recreation Area

Permanent Inundation Master Plan
Resilient Smart Growth
Home Raising

Permanent Inundation: 2'
Probability of TWL reaching El +7' once a year: 4%
Permanent Inundation: 5.3’
Probability of TWL reaching EL +7’ once a year: 100%

**REGION-WIDE ACTIONS**

1. Bayshore and Estuary Restoration and Green Infrastructure Development
2. Retrofit Waterfront Assets
3. Inland Shore and Extension of Recreation Area

**REGION-WIDE POLICIES**

4. Permanent Inundation Master Plan
5. Resilient Smart Growth
6. Home Raising

**SUB-REGION ACTIONS**

1. 2000 MHHW
2. (1%) 12’
3. (100%) 7’
4. SLR 5.3’

NEW WATERFRONT DEVELOPMENT AND ENHANCE WATER-RELATED PROGRAMMING AND AMENITIES
2030 NEAR TERM RAISING BULKHEADS, ROADS AND HOMES

REGION-WIDE ACTIONS

1. Bayshore and Estuary Restoration and Green Infrastructure Development

10. Targeted Road Raisings

REGION-WIDE POLICIES

9. Home Raising

SUB-REGION ACTIONS

Permanent Inundation: 1.1’
Probability of TWL reaching El +7’ once a year: 2%
2050 FOCUSING ON SEA LEVEL RISE

REGION-WIDE ACTIONS
1 Bayshore and Estuary Restoration and Green Infrastructure Development
2 Critical Facilities Planning / Protection

REGION-WIDE POLICIES
6 Permanent Inundation Master Plan

SUB-REGION ACTIONS

Permanent Inundation: 2’
Probability of TWL reaching EL +7’ once a year: 4%

2000 MHHW
SLR 2.0’
1. Bayshore and Estuary Restoration and Green Infrastructure Development
2. Inland Shore and Extension of Recreation Area

REGION-WIDE ACTIONS

PERMANENT INUNDATION

7'. Probability of TWL reaching EL +7' once a year: 100%