

Resilient Shorelines Partnership

Joint Policy Committee Meeting

September 19, 2014



San Francisco Bay
Conservation
and Development Commission



ABAG
ASSOCIATION
OF BAY AREA
GOVERNMENTS

What is the Resilient Shorelines Partnership?

- ❖ A collaborative effort led by the Association of Bay Area Governments, the Bay Conservation and Development Commission, and the California Coastal Conservancy
- ❖ Working to engage public, private, and non-profit agencies and organizations to understand shoreline vulnerabilities in order to increase resilience
- ❖ Seeking to meet the objectives of the Joint Policy Committee's 2012 vote to take the lead in developing a regional sea level rise approach for the Bay Area

Resilient Shorelines Partnership Seeks To:

- ❖ Assess the vulnerabilities to the region and identify the consequences of those vulnerabilities
- ❖ Identify priorities and opportunities for the region and local jurisdictions to respond to the vulnerabilities
- ❖ Develop cross-jurisdictional solutions related to:
 - ❖ Policy, planning and technical assistance
 - ❖ Implementation guidance
 - ❖ Funding



Partnership Goals and Objectives

1. Identify how shoreline risks (from sea level rise, storm events, or a major earthquake) will affect the future of Bay Area shoreline communities, infrastructure, ecosystems and economy, by:
 - a. Assessing regional flood management capacity, limitations and interdependencies
 - b. Identifying the areas and regional assets that are at risk of due to sea level rise, storm events, or a major earthquake
 - c. Gaining a better understanding of the consequences these risks have on shoreline communities



Goals and Objectives (con.)

2. Develop local and regional approaches that reduce vulnerabilities and build resilience
3. Address the four frames of sustainability: Society and Equity, Environment, Economy and Governance
4. Avoid duplication, make efficient use of limited resources, increase coordination and collaboration, identify gaps and needs, and establish priorities



Goals and Objectives (con.)

5. Develop the shared regional data, functions, and capabilities necessary to support interagency work across geographic scales
6. Inform updates to Plan Bay Area and other regional plans and projects to help shoreline communities build resilience
7. Seek financing to support actions and strategies at local and regional scales to increase resilience



Activities Completed to Date

- ❖ Regular meetings of the Executive Directors and core staff to set goals and objectives, identify issues, and define roles and responsibilities
- ❖ Identification of current programs and projects that if conducted collaboratively among the three agencies would support the partnership's goals and objectives
- ❖ A high level review of existing information on shoreline protection, shoreline ownership, and the agencies and organizations responsible for flood management
- ❖ Development of a near term work scope and consideration of longer term collaborative activities

Near Term Work Scope Action Items

- ❖ Review and summarize existing information on shoreline protection, shoreline ownership, and the agencies and organizations responsible for flood management
- ❖ Gain a better understanding of the consequences of shoreline vulnerabilities on the Bay Area



Preliminary Findings

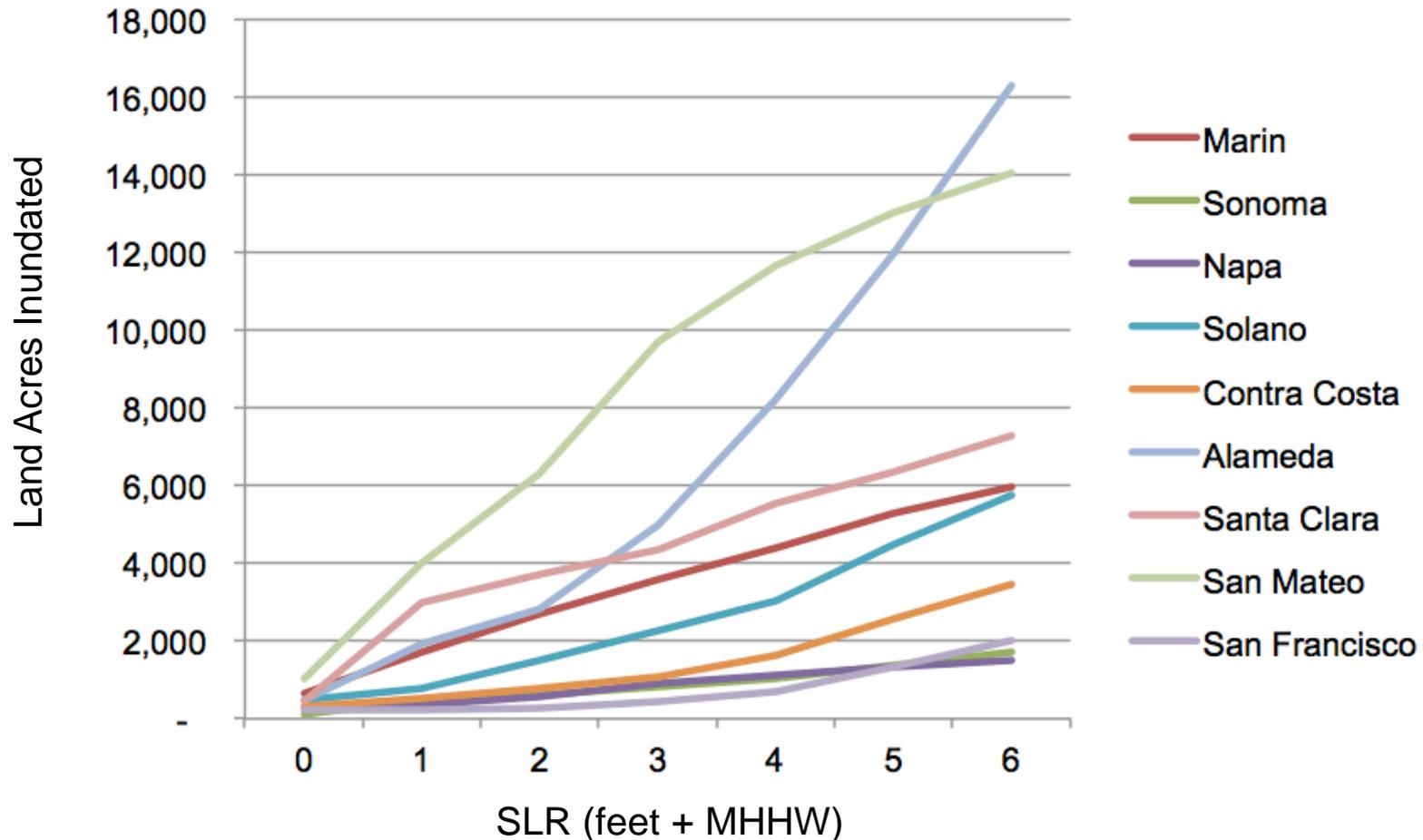
- ❖ Certain areas along the shoreline are highly complex due to ownership, jurisdiction and authority and this will make taking action to manage flooding more challenging (Hayward Shoreline example)
- ❖ Transportation and utilities are among the assets that will be affected earliest and will have the most widespread consequences on society, economy and environment
- ❖ Areas along the shoreline already experience flooding, are mapped by FEMA as within the 100-year flood zone or protected by structures not designed as flood protection

San Francisco Bay Flood Agency Inventory (draft)

| San Francisco Bay Flood Control and Shoreline Protection Entities | | | | | | | | | | | |
|--|---|----------------------|--|---|---|---|--|--|-------------------------------|---|---|
| KEY: *** = Main Resource; From 2006 Bay Area IRWN Flood and Stormwater Chapter, From CA Flood Futures Report, From 146 agency list | | | | | | | | | | | |
| Type (Filter) | Agency Name | Type of Agency | Flood Control Zones (& linked zone maps) | Description | Plan 2010 Jurisdiction Annexes? (Adopted and approved; Approved and pending adoption; Gaps/Needs) | Responsibility | Current Programs/Projects: | Infrastructure Details | Contact Name | Title/Role | Contact Number/Email |
| Sonoma Back to top | | | | | | | | | | | |
| Spotlight Projects: N/A | | | | | | | | | | | |
| County Water Agency | ***Sonoma County Water Agency (Sonoma CWA) | | 1A, 2A, 3A, 4A, 5A, 6A, and 8A | Water wholesaler that provides drinking water to 570,000 residents of Sonoma and Marin Counties. Provides flood control services to the residents of Sonoma County. | Need to Form: Zone 4A (Upper Russian River Watershed), and Zone 6A (Dry Creek Watershed) | Maintaining over 75 miles of streams throughout Sonoma County. | Flood Protection Projects: Flood Forecast and Emergency Info; Stream Maintenance; Flood Protection Facilities; Flood Protection Zone Info; Flood Control Design Criteria; Storm Water; Groundwater Recharge; Sonoma County Youth Ecology Corps; City Watersheds of Sonoma Valley | 3 flood protection facilities: Santa Rose Creek Reservoir (aka Spring Lake), Matanzas Creek Reservoir, Piner Creek Reservoir (on Paulin Creek) Brush Creek Middle Fork Reservoir, Spring Creek Reservoir. | | | (707) 526-5370 / Front Desk; (707) 547-1900/Operations Desk-24 Hours |
| | LAFCO | | | | | Sonoma County | | | | General | (707) 565-2577 |
| Resource Conservation District | Sonoma County Resource Conservation District | Special District | District Watersheds: http://www.sonomarcwd.org/district-watersheds/index.php | Mission to advise, inform, and educate the community on rural and agricultural soil and resource conservation. | | 919,000 acres, over 85% of Sonoma County, including the Russian River, Petaluma River, Sonoma Creek, Stemple Creek, and Gualala River Watersheds. | | Manages Levees (permitting, etc.) | Kara Heckert | Executive Director | 707.569.1448; info@sonomarcwd.org |
| County | Sonoma County | County | | | | Sonoma County | | | | Grant Davis | General Manager-Chief Engineer Water Agency (707) 562-5370; grant.davis@scwa.ca.gov https://www.scwa.com/uri?sa=t&rect=1&q=8&src=s&source=web&cd=1&cad=rja&ved=0CCQqFjAA&url=http%3A%2F%2Fwww.cv.pb.ca.gov%2FrdContact%2FRDBusinessListingforPublic.xls&ei=RLzmUuza/cmwyQGD34DA&sa=use-AFG/CNE-1B0M3XK-6GZ2-Xt6Ct1SvuaA&bv=rbv.5 |
| Reclamation District | Reclamation District 2061, Tubbs Island | Reclamation District | | | | Tubbs Island | | | Vallejo Sanitat & FC District | | (707) 644-8949 |
| City | City of Santa Rosa | City | 1A (map) | Services for public drainage systems within city limits, except for Sonoma County Water Agency facilities | adopted and approved | City of Santa Rosa (minus County Water Agency facilities) | | | | general | (707) 5430-3881 |
| City | Petaluma (City of) Water Resources and Conservation | Special District | 2A (map) | Provides comprehensive and integrated management of Petaluma's water resources | | City of Petaluma | | 190 miles of collection system pipeline; a system of nine collection system pump stations; and Ellis Creek Water Recycling Facility (link) | Dan St. John, F.ASCE | Director, Public Works and Utilities | 707-778-4546; dstjohn@ci.petaluma.ca.us |
| City | City of Petaluma | City | 2A (map) | same as Petaluma Water Resources and Conservation | adopted | City of Petaluma | | same as Petaluma Water Resources and Conservation | Curt Bates, P.E | Engineer/Flood Plain | 707.778.4311; cbates@ci.petaluma.ca.us |
| City | Sonoma (City of) Water Division | Special District | 3A (map) | | | City of Sonoma | | Four storage tanks, two booster stations, and necessary water mains and appurtenances for purveyign water within the service area. City is also connected to two storage tanks owned by the SCWA. Also, 6 deep wells connected to the system (1, 3, 4, and 6 are active, while 5 is a standby source). | Dan Takasugi | Public Works Director/City Engineer | (707)933-2230; dtakasugi@sonomacity.org |
| City | City of Sonoma | City | 3A (map) | | adopted and approved | | | | Dan Takasugi | Director/City Engineer | (707)933-2230; dtakasugi@sonomacity.org |
| City | City of Cotati | City | 1A (Map) | Most of the planning area is classified as a protected zone (Zone C), meaning that it is not within the 100-year flood zone as determined by FEMA. 100 year flood zones are confined to a narrow area along the Laguna de Santa Rosa. Flooding is largely local | n/a | | | Served by a storm drainage system consisting of pipes with diameters ranging from 12 - 60 inches which drain to Copeland, Cotati, and/or Washoe Creeks. | Damien O'Bid | City Engineer/Direct or of Public Works | (707) 792-4610; dobid@cotacity.org |



Preliminary analysis of acres of land (by County) that could be flooded due to sea level rise



Approach for assessing shoreline and flood management agency and infrastructure vulnerability

Asset Category: Structural Shoreline Protection

Asset Name:

Existing conditions metrics describe the asset and highlight any conditions or stressors that could affect the asset's vulnerability to sea level rise and storm events or ground shaking or liquefaction from seismic activity.

| Questions | Responses | Data Sources |
|---|-----------|--------------|
| 1. Briefly describe the asset and its functions | | |
| 2. What is the geographic extent of the asset? | | |
| 3. Who owns the asset? | | |
| 4. Is the asset owner different than the property owner? If yes, who owns the property where the asset is located? If yes, what is the relationship between the asset owner and property owner? Is there a right-of-way, access easement, or other agreement (e.g., lease)? | | |
| 5. What year was the asset built? | | |
| 6. When was the last major repair or improvement? | | |
| 7. Is the asset currently under consideration for improvement? | | |

Synthesis Report (draft in Winter 2015)

Summarize regional partner project, studies and reports to highlight what we know about the vulnerability to current and future flooding and the potential consequences on the region

- ❖ Adapting to Rising Tides Program
- ❖ FHWA-funded Transportation Adaptation
- ❖ Regional Housing and Community Risk
- ❖ South Bay Shoreline Study
- ❖ Surviving the Storm Report
- ❖ Flood Control 2.0
- ❖ Bayland Ecosystem Habitat Goals Update



Questions?

Resilient Shorelines Core Staff Team

Caitlin Sweeney, ABAG

caitlin.sweeney@waterboards.ca.gov

Lindy Lowe, BCDC

lindyl@bcdc.ca.gov

Matthew Gerhart, SCC

mgerhart@scc.ca.gov

