



**Adaptation Strategies Working Group Meeting Minutes  
May 18, 2016  
Hayward Executive Airport, 20301 Skywest Drive, Hayward**

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**Participants**

Andy Gunther	Bay Area Ecosystems Climate Change Consortium
Chuck Anderson	Schaaf & Wheeler
Dale Kerper	DHI Water & Environment
Dan Matthies	Wood Rodgers, Inc.
David Behar	SFPUC
Elizabeth Murray	USACE
Gina Blus	Climate Ready Solutions
Hank Ackerman	Alameda County Flood Control and Water Conservation District
Hilary Papendick	San Mateo County Office of Sustainability
Jeff Carson	City of Hayward - Water Pollution Control Facility
Jim Allison	Capitol Corridor
Kathy Schaefer	UC Berkeley
Lauma (Jurkevics) Willis	California Department of Water Resources
Marriah Abellora	USACE
Michael Barber	San Mateo County
Michelle Iblings	Alameda County Flood Control and Water Conservation District
Michelle Selmon	DWR
Rachel Marzion	USACE
Rohin Saleh	Alameda County Flood Control and Water Conservation District
Rosalyn Yu	San Francisco International Airport
Sybil Hatch	Convey, Inc.
Ani Thompkins	Convey, Inc.

**Overview of Needs Inventory (18 Items attached)**

- Item #1: Individual entities will act/react to SLR without regional cooperation and guidance (e.g. build to meet FEMA/other criteria)
  - BCDC’s SLR workshops – policy changes with regard to fill and other Bay adaptation strategies
  - Maintain inventory of existing Bay-wide models/studies currently available in a central location
- Item #2: Geographical consideration of levee/fill.
  - Mark Stacey’s RISER project – addresses some (but not all) SLR adaptation strategies/impacts
  - DWR levee feasibility in Central Valley – potential model for CHARG effort (“frequently-loaded levee”)

- Item #3: Timing of restoration is important (consider subsidence)
  - Brenda at BCDC looking at sediment (oversees dredging) and going for EPA WQ Improvement Grant
  - Andy suggested getting land owners involved (start with South Bay since there are only 9 large ones)
  - BAECCC + CRI + Berkeley (Mark) + CHARG? = Fall Workshop on “realistic restoration”
- Item #4: Recalibrate hydrodynamic model to existing/future restoration activity (FEMA is already outdated)
- Item #5: FEMA funding for post-disaster debris; BCDC is reexamining fill policy.
- Item #6: EO 13690 “Thoughtful process” for federal investment in infrastructure
- Item #8: Lauma mentioned State working on two new SLR models (SGMA program; release in Fall; combined with Delta; considers runoff from watersheds); Will provide more information.
- Item #9: Treatment of non-engineered infrastructure (e.g. salt pond berm) is different between FEMA, USACE, and DHI models. Need to justify modeling approach and consider other relevant issues such as maintenance and associated restoration policies.
- Item #14: David Gutierrez leading SGMA – new technology to treat saline water (out of box thinking)
  - City of Miami having contaminated groundwater coming to surface
  - St. Petersburg (FL) groundwater issues have been amplified by SLR
- Item #15: Removal of landfills is expensive; is there an economy of scale?
  - Daly City and Half Moon Bay are currently looking at removal/decontamination
  - White paper for Central Valley exists
- Item #16: Existing monitoring stations in San Leandro/China Camp (Natural Estuary Research Reserve)
  - In Southern CA, combination of subsidence and contaminant removal has exacerbated SLR impact
- Item #17: Clarification on green infrastructure = detention, rain swales, porous pavement, etc...
  - Cities and Counties mandated to create “Green Infrastructure Plans”
  - Would be beneficial to prioritize these activities for planning and funding (multi-benefit)
- Other Items: Building trust with other agencies and education are efforts that cannot be underestimated

### **Additional Ideas and Discussion**

- Database/repository – best availability of LiDAR, Models, Studies, etc.
  - DWR has a modeling library – Division of Flood Management (Lauma to provide contact).
- Suggestion to group Items into Categories for consolidated education & outreach (“elevator speech”)
  - Planning (Best Practices/ Social Justice)
  - Modeling (Sediment/Groundwater/Recalibrate/New)
  - Coincidence of SLR/Riverine/Tidal
  - Monitoring
  - Overlap of Categories reflects the nature of climate change and SLR; Unique issue that brings together many entities that typically do not interact; Collaboration = Opportunity!
  - **Action Item** – Update list with Categories and Domain, distribute out to group for comment
- Discussion of CHARG governance and structure; relationship/interaction with other agencies
- **Next Meeting = June 22<sup>nd</sup> 10 am – Noon (Prioritize Needs Inventory)**
  - Meeting Agenda, Minutes, and Presentations at <http://www.acfloodcontrol.org/SFBayCHARG/>