

Bel Marin Keys Unit V Phase 1 Restoration



Coastal
Conservancy

STATE of CALIFORNIA



Coastal Conservancy

STATE *of* CALIFORNIA

We work with partners to protect, restore, and provide access to the California coast & SF Bay



Wink



BLM



Ocean Discovery Institute



Mary Small



Alison Taggart-Barone

Where to stay up to date?

HamiltonWetlands.scc.ca.gov



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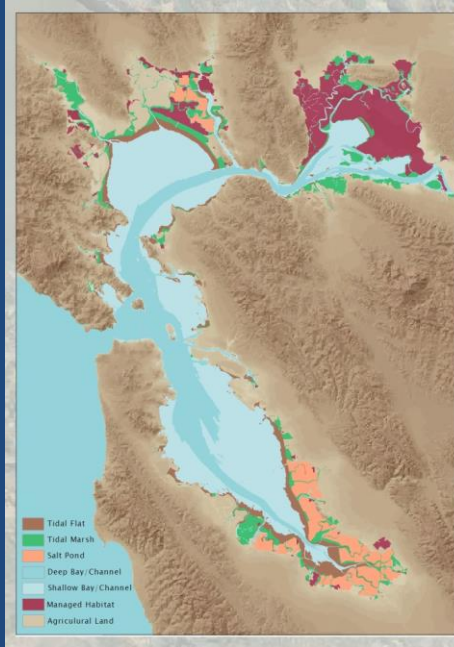


Hamilton/Bel Marin Keys Wetlands Restoration Project
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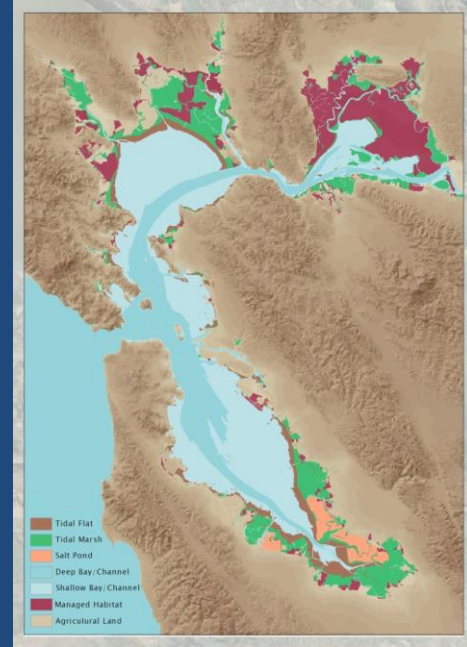
Wetland Loss and Restoration



Past (~1850)



Present (~2000)



Future (~2030)

Wetland Benefits

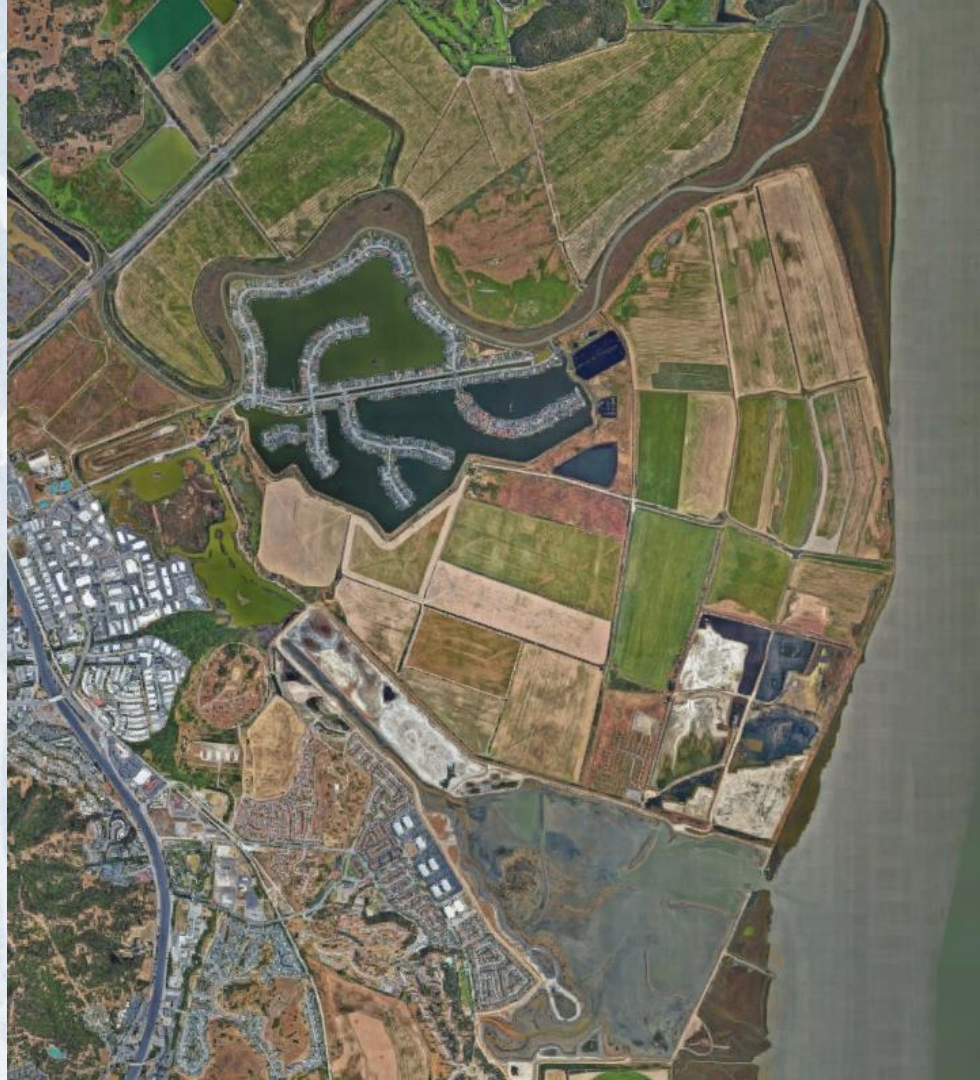
- Fish & wildlife habitat
- Water quality
- Flood protection
- Buffer against sea level rise and storm surges
- Carbon sequestration
- Educational & recreational opportunities



Photo: phoca2004 via Flickr

The site

- oat hay farm (currently)
- subsided below sea level
- surrounded by levees



Hamilton Wetland Restoration Project:

3 parcels

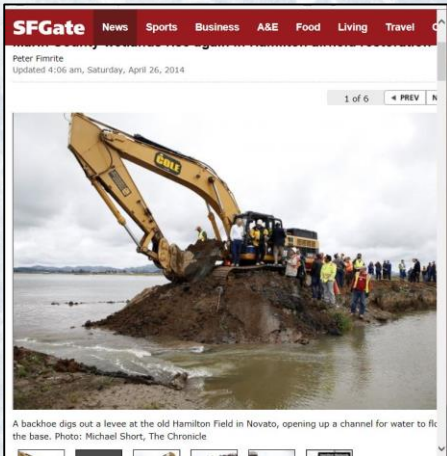
BMKV
(~1,600 acres)

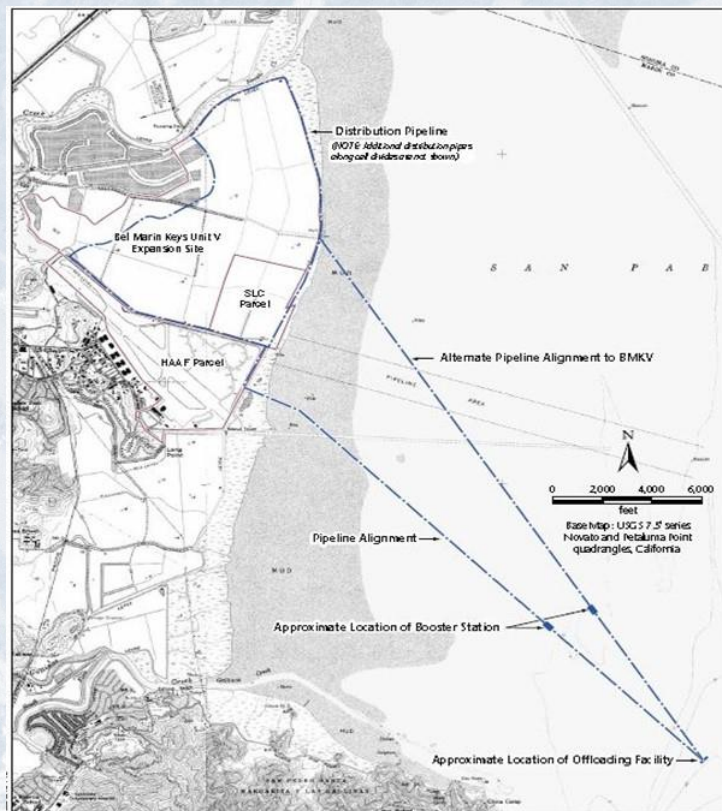
State Lands
Commission
(~300 acres)

Restored
Airfield
(~650 acres)



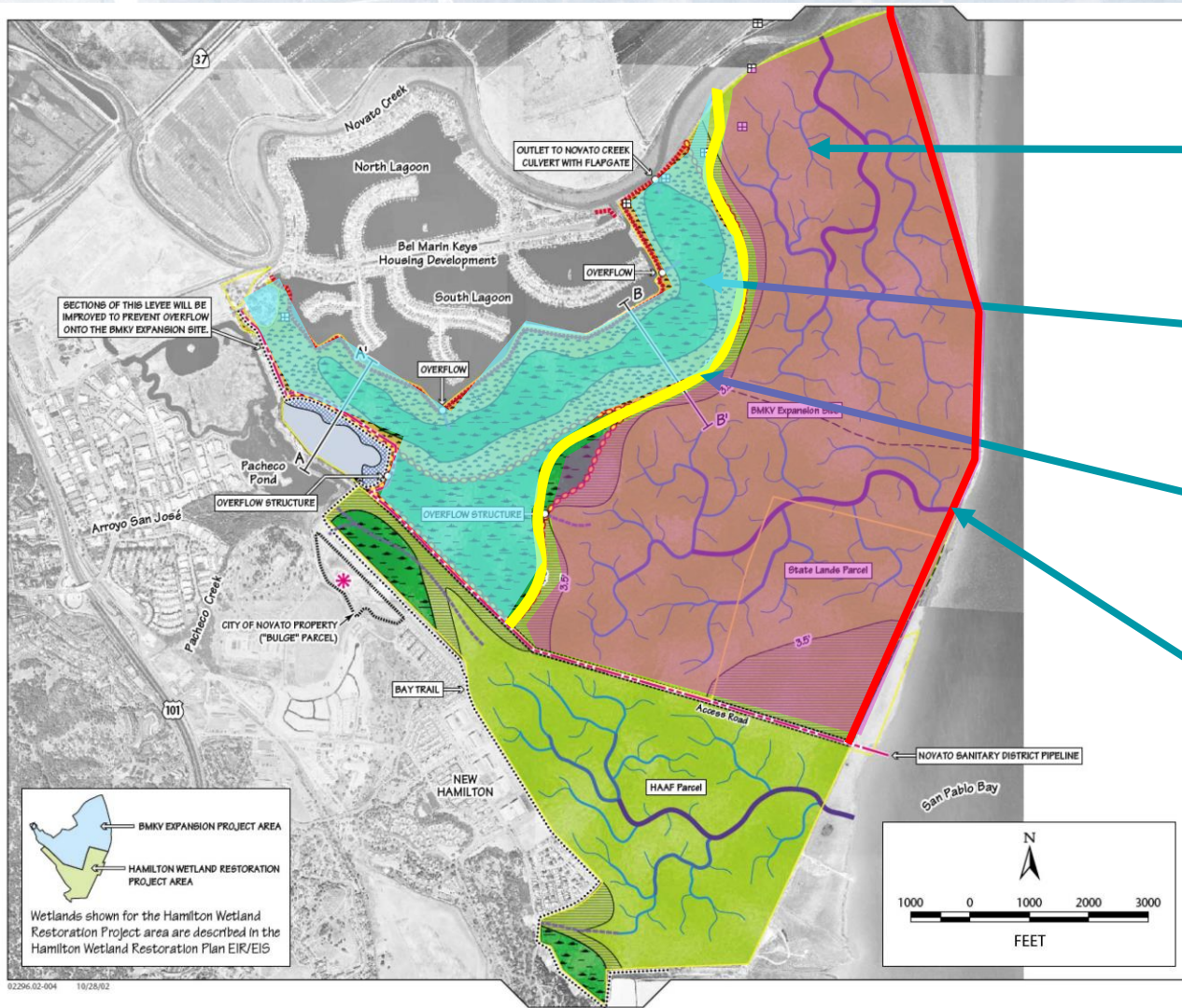
Restored Hamilton Airfield







Google Earth



Legend

HABITAT TYPES

- Upland Transition
- Freshwater Emergent Wetland
- Seasonal Wetland
- High Transitional Marsh
- Tidal Salt Marsh
- Open Water

CHANNEL ORDER

- Primary channels
- Secondary channels
- Tertiary channels
- Small branches
- Sub-basin Boundary

INFRASTRUCTURE

- Parcel Boundary (see inset)
- Overflow Channel and Structure
- New Levee
- Improved Levee
- Existing Levee
- Bay Trail
- Power Tower
- Novato Sanitary District Pipeline
- Interpretive Center (not part of federal project; access area adjacent, not shown)

Notes:

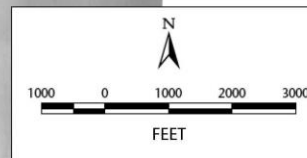
Vertical elevations are relevant to NGVD 1929.
Sections of the levee north of Pacheco Pond will be improved to prevent overflow onto the BMKV expansion site.
See Figure 3-6 for cross sections A-A' and B-B'.

New Tidal Wetlands (Later Phases)

New Seasonal Wetlands (Phase I)

New Bayfront Levee (Phase I)

Breach Existing Bayside Levee (Later Phases)



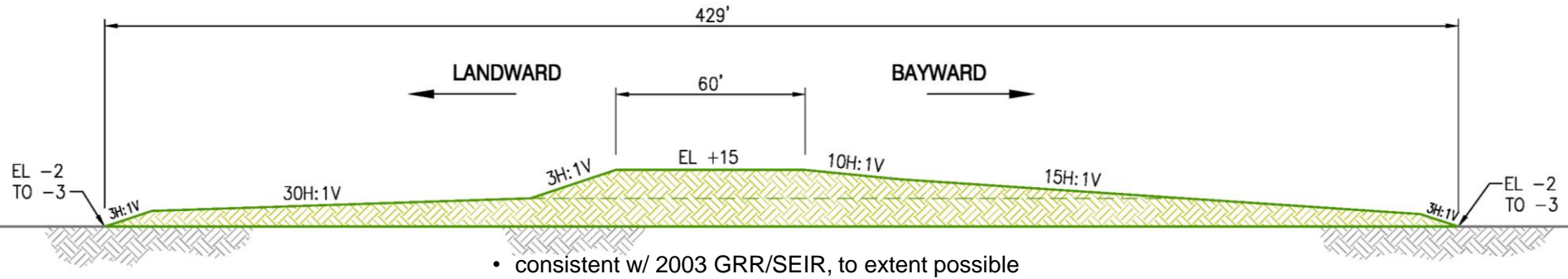
Levee Design

- 11,800-ft long
- 1,300,000 cubic yards
- Bayside borrow

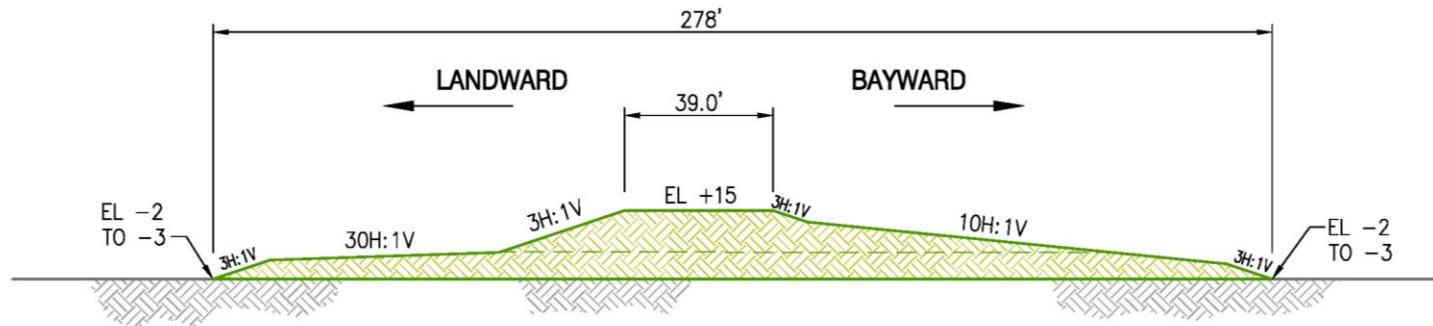


BMKV Phase 1 – Levee Construction

LEVEE - NORTHERN SECTION



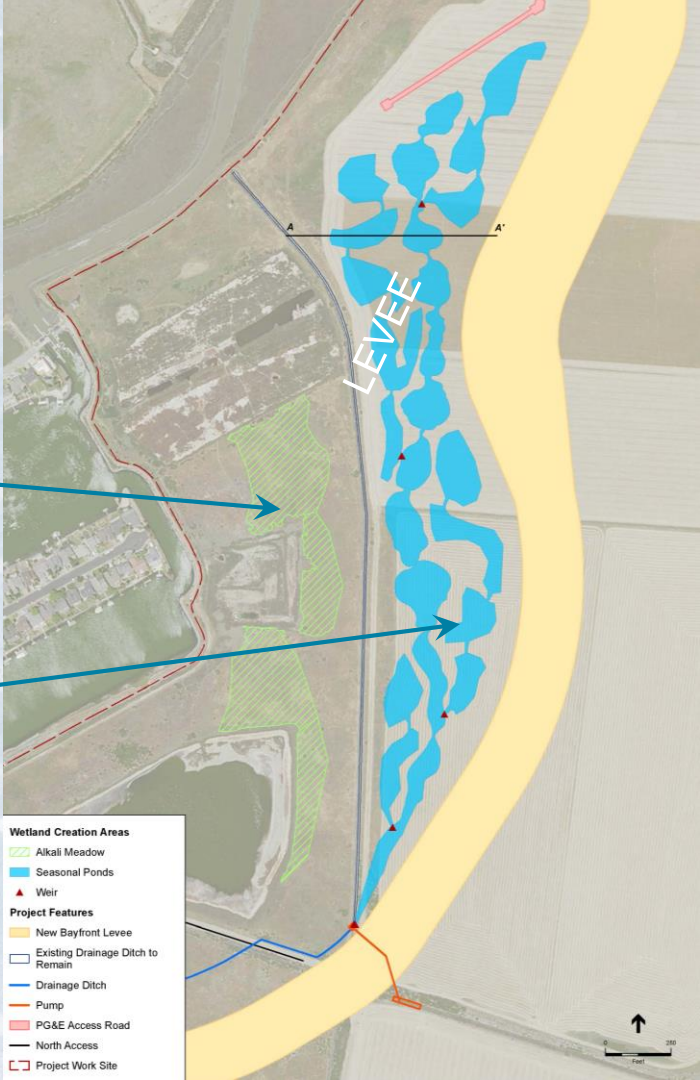
LEVEE - SOUTHERN SECTION



BMKV Phase 1 Seasonal Wetland

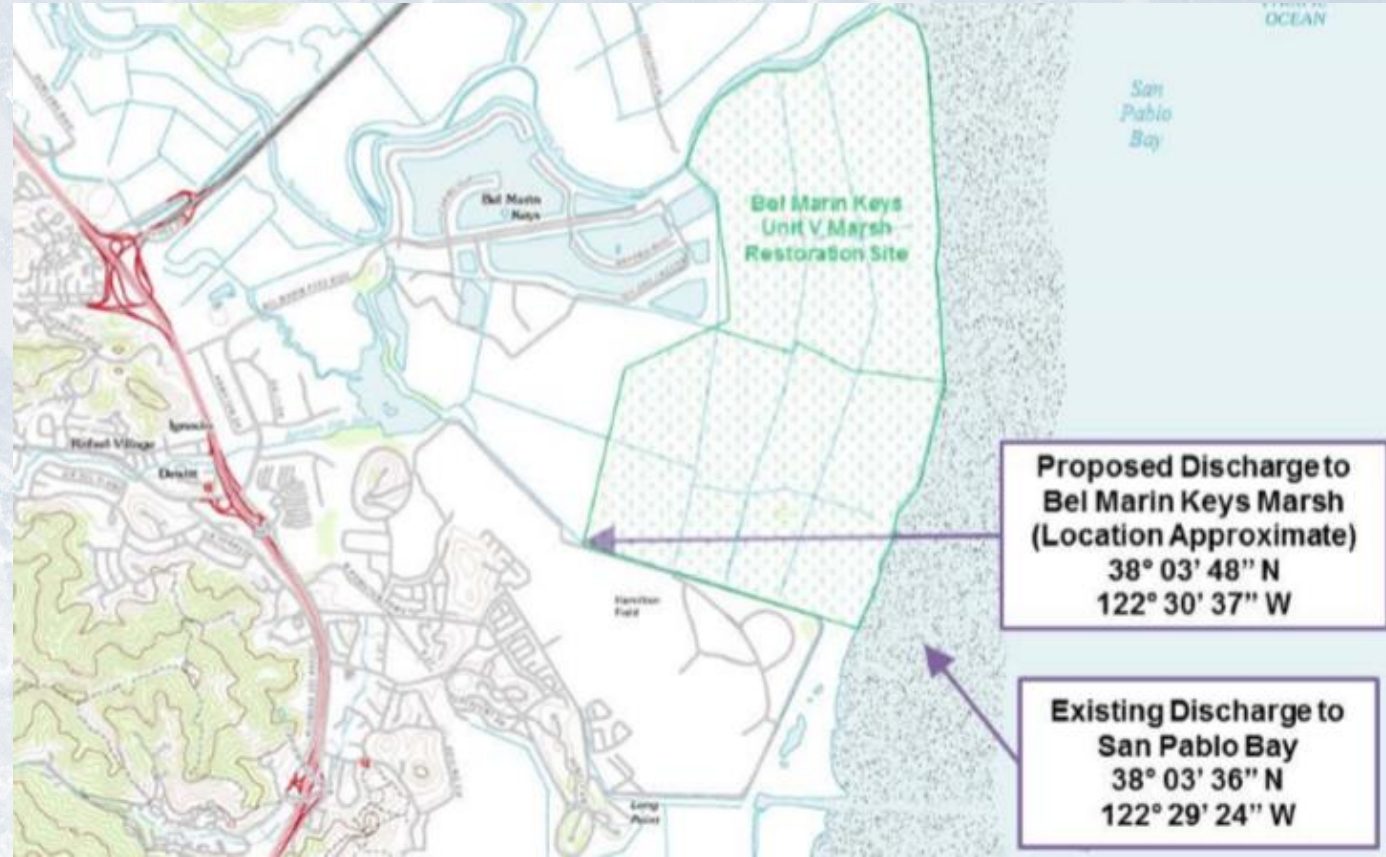
Alkali Meadow

Seasonal Ponds



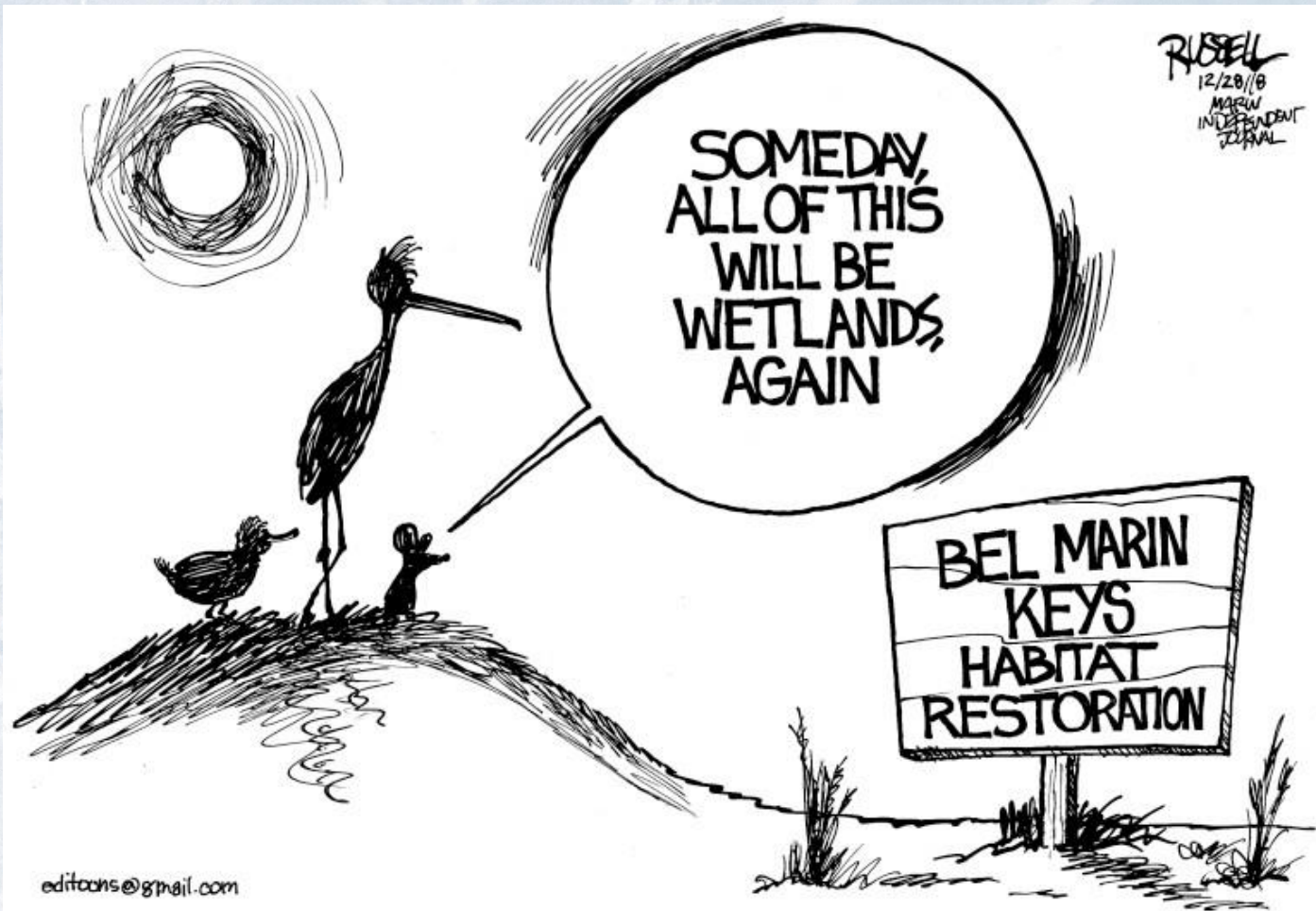
BMKV Phase 1 Restoration Action

NSD Effluent Pipeline Modification



San Francisco Bay Trail







BMKV Phase 1 Restoration

Questions &
Comments