WANTED!
LOOKING FOR
GOOD CLEAN MUD!

Beth Huning, Coordinator
November 12, 2015
Bay Planning Coalition
conservation
cooperation
common-goals
information
Coordination
Bay
multiple
support
agencies
region
opportunities
JV
diverse
across
people
restoration
projects
policies
voice
independent
solve
protection
on-the-ground
resources
stakeholders
involved
project
effort
provide
approach
working
science
wetland
work
issues
organizations
needs
hatch
together
### SFBJV Project Acreage Summary as of 10/30/14

<table>
<thead>
<tr>
<th>Habitat Categories</th>
<th>Activity Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Protection</td>
</tr>
<tr>
<td>Bay Habitat</td>
<td>44,023.84</td>
</tr>
<tr>
<td>Creek and Lake</td>
<td>7,131.79</td>
</tr>
<tr>
<td>Seasonal Wetland</td>
<td>2,094.00</td>
</tr>
<tr>
<td>Upland</td>
<td>2,817.00</td>
</tr>
</tbody>
</table>

### SFBJV Project Protection Acreage Breakdowns as of 10/30/14

<table>
<thead>
<tr>
<th>Habitat Categories</th>
<th>Habitat Types</th>
<th>Water Regime</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bay Habitat</td>
<td>Tidal marsh</td>
<td>Bay</td>
<td>273.67</td>
</tr>
<tr>
<td>Bay Habitat</td>
<td>Tidal marsh</td>
<td>Muted tidal</td>
<td>305.00</td>
</tr>
<tr>
<td>Bay Habitat</td>
<td>Tidal marsh</td>
<td>Seasonal non-tidal</td>
<td>44.00</td>
</tr>
</tbody>
</table>
Sedi-Matchmaking

Do you like long walks on the beach?

Or maybe you are just looking for the perfect grain size. We may just have the match for you....
**Timespan** From 9/30/2009 to 1/15/2015

**User-input Acreage** 1,575.00

**Funding still needed for current phase (3-5 years):** $200,000.00

**Funding Status**
Funding estimate includes $450,000 for monitoring. Have received stimulus funding that could be lost if remainder of funding is not secured. California Wildlife Conservation Board ($7.2 million); NOAA American Recovery and Reinvestment Act stimulus ($1.688 million); NOAA Partnership ($650,000); San Pablo Bay North American Wetlands Conservation Act ($551,000); Castro Cove Natural Resource Damage Assessment funds ($1.567 million); National Coastal Wetlands Conservation grant program ($1 million); USFWS San Francisco Bay Coastal Program ($35,000), EPA (1.4 million), USFWS Federal Hwy funds (2.458 million)

**Potential Funding Sources**
Additional potential funding partners include Coastal Conservancy, Caltrans, NFWF.

**Potential Climate Change Impact Description**

**Could this project potentially use dredge materials?** Yes.

Up to 405,000 cubic yards under current permit scope. Additional capacity if separately permitted. DU is working on a potential opportunity to import up to 1,000,000 cubic yards of dredge material.

**Type:** Mud

**Is this project part of a Living Shorelines project?** No

**Willing to Accept Mitigation Funding** Yes

**Species Related**
chinook salmon, Delta smelt, Sacramento splittail, longfin smelt and green sturgeon, numerous migratory birds, Threatened
<table>
<thead>
<tr>
<th>Project Name</th>
<th>SFBV Region</th>
<th>Contact</th>
<th>Phone</th>
<th>Email</th>
<th>Sediment need? y/n</th>
<th>Quantity/Volume</th>
<th>Type(s) - gravel, sand, mud</th>
<th>Off-loading capability</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antioch Dunes</td>
<td>North Bay</td>
<td>Louis Terrazas</td>
<td>707-769-4200</td>
<td><a href="mailto:louis_terrazas@fws.gov">louis_terrazas@fws.gov</a></td>
<td>No immediate needs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aramburu Island</td>
<td>North Bay</td>
<td>Rachel Spadafore</td>
<td>415-388-2524 x 104</td>
<td><a href="mailto:rspadafore@audubon.org">rspadafore@audubon.org</a></td>
<td>No immediate needs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breuner Marsh</td>
<td>Contra Costa Shoreline</td>
<td>Brad Olson</td>
<td></td>
<td></td>
<td>No immediate needs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cullinan Ranch</td>
<td>North Bay</td>
<td>Don Brubaker</td>
<td>707-769-4200</td>
<td><a href="mailto:Don_Brubaker@fws.gov">Don_Brubaker@fws.gov</a></td>
<td>Yes</td>
<td>300,000 CY</td>
<td>Upland and dredge material</td>
<td>The material source provider will be responsible for providing off-loading facilities/infrastructure. Potential off-loading capabilities include: delivery by trucks, pumping material to site via a temporary off-loading facility in Napa River (contractor/material provider will be responsible for installing the temporary off-loading facility in Napa River).</td>
<td>Open</td>
</tr>
<tr>
<td>Cullinan Ranch</td>
<td>North Bay</td>
<td>Craig Garner</td>
<td>801.803.4361</td>
<td><a href="mailto:cgarner@ducks.org">cgarner@ducks.org</a></td>
<td>Yes</td>
<td>Up to 320,000 CY</td>
<td>Wetland surface or wetland foundation material</td>
<td>No existing infrastructure. Site is a subsided diked bayland. Permitted for pile installation and/or excavation needed along levee/dike for offloading of scows in Dutchman Slough (NW of Mare Island). Amending permit for Napa River offloading facility</td>
<td></td>
</tr>
<tr>
<td>Cullinan Ranch</td>
<td>North Bay</td>
<td>Russ Lowgren</td>
<td>916-402-9979</td>
<td><a href="mailto:rlowgren@ducks.org">rlowgren@ducks.org</a></td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td>Open</td>
</tr>
<tr>
<td>Novato Creek Watershed</td>
<td>Central/North Bay</td>
<td>Roger Leventhal</td>
<td>415-473-3249</td>
<td><a href="mailto:roger.leventhal@gmail.com">roger.leventhal@gmail.com</a></td>
<td>No immediate needs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Novato Creek Watershed</td>
<td>Central/North Bay</td>
<td>Liz Lewis</td>
<td>415-499-7226</td>
<td><a href="mailto:lizlewis@co.marin.ca.us">lizlewis@co.marin.ca.us</a></td>
<td>No immediate needs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petaluma River Farm</td>
<td>North Bay</td>
<td>JT Wick Brian Swedberg</td>
<td>707-799-7726 707-592-3104</td>
<td><a href="mailto:brian@bergholdings.com">brian@bergholdings.com</a>,<a href="mailto:t@bergholdings.com">t@bergholdings.com</a></td>
<td>Yes</td>
<td>8MCY wet 4MCY dry</td>
<td>Can accept any material that is suitable for aquatic disposal Sand is OK</td>
<td>Our offloader can handle large and small barges</td>
<td>Summer of 2014</td>
</tr>
</tbody>
</table>
Sears Point Wetland and Watershed Restoration Project

Project ID: 5439  Last Updated: October 7, 2015 8:46 pm  Public Status: Confidential
Administrative Region: San Francisco Bay Joint Venture  Sites 1  Contacts 1  Events 2

You must create and save a project site in order to enter associated location, activity, habitat and funding information. Most projects have just one site. In many cases, sites within a project do not have established names, and the project name is also used for the site name.

Each site has its own status: completed, in construction or implementation, in planning, or proposed. A project is not considered completed until all of its sites are marked as completed.

Site Name *
Sears Point Wetland and Watershed Restoration

Site Status *
In-progress/Implementation

Site Comments
Site Comments
Data Sets, Plans, & Information

- Dredging Projects – DMMO/LTMS
- Restoration Projects – SFBJV/EcoAtlas SFEI
- Developing Regional Sediment Management Plan - BCDC
- Sediment Budgets - BCDC, others?
- Modeling of Future Marsh Scenarios – Point Blue
- South Bay Shoreline Study - US Army Corps and SCVWD
- Suspended sediment/Accretion rates - SFEI
- Shoreline Change analysis for SPB - SFEI
- Regional Shoreline & Flood Infrastructure Mapping for the SFBay - SFEI
- Past Flood Control Sediment Management - SFEI
- Historic and Current Channel Characteristics/Developing Regional Channel Typology - SFEI
- Water and Soil Quality – DMMO/RMP
- Sea Level Rise Modeling - USGS
- Coastal Hazards Adaptation Resiliency Group mapping and data gathering?
- Others?
SediMatch Tool Information Needs-Restoration Projects

- Location
- Date Window
- Amount
- Type of Sediment
- Type of Equipment Required
SediMatch Tool Information Needs-Dredging Projects

- Location
- Work date window
- Amount
- Type of Sediment
- Timing of Permits
<table>
<thead>
<tr>
<th>Field from LTMS Dredging Chart/Table</th>
<th>Field from SFBJV Restoration Enhancement Project Database</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROJECT NAME</td>
<td>PROJECT NAME</td>
</tr>
<tr>
<td>CITY/ LOCALE</td>
<td>SFBJV Region/County/Lat Long</td>
</tr>
<tr>
<td>EPISODE [YEAR] VOLUME (Range in 1000 CYS)</td>
<td>SEDIMENT NEED Y/N-If Y, Quantity/Volume {NEW}</td>
</tr>
<tr>
<td>PERMITS OBTAINED</td>
<td>PERMITS OBTAINED</td>
</tr>
<tr>
<td>LAST DREDGED</td>
<td></td>
</tr>
<tr>
<td>FREQUENCY (if known)</td>
<td></td>
</tr>
<tr>
<td>CONTRACTOR (if known)</td>
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</tr>
<tr>
<td>EQUIPMENT</td>
<td>OFF LOADING CAPABILITY {NEW}</td>
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<tr>
<td>DISPOSAL SITE</td>
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<tr>
<td>Field from LTMS Dredging Chart/Table</td>
<td>Field from SFBJV Restoration Enhancement Project Database</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>DMMO STATUS</td>
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</tr>
<tr>
<td>EST. START DATE</td>
<td>START DATE</td>
</tr>
<tr>
<td>EST. FINISH DATE</td>
<td>END DATE</td>
</tr>
<tr>
<td>WORK WINDOW</td>
<td>WORK WINDOW {NEW}</td>
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<tr>
<td>CONSULT AGENCIES/ SPECIES</td>
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</tr>
<tr>
<td>COMMENTS</td>
<td></td>
</tr>
<tr>
<td>PROJECT MANAGER/CONTACT NAME {NEW}</td>
<td>CONTACT</td>
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<tr>
<td>CONTACT INFO (phone/email) {NEW}</td>
<td>CONTACT INFO (phone/email)</td>
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<tr>
<td>TYPE (Gravel/Sand/Mud) {NEW}</td>
<td>TYPE (Gravel/Sand/Mud) {NEW}</td>
</tr>
</tbody>
</table>
What Can we Do NOW to Incentivise Beneficial Reuse?

- Built or purchase new offloader
- Collaborate with restoration projects on tipping fees
- Create mechanism for dredger contribution to site prep to count as mitigation credit
- Could develop water sediments screening guidelines for upland soils
- Influence/change regulatory guidelines