



**South Bay Salt Ponds Restoration Project**  
**Task 4: Flood Management**

**DATA ACQUISITION PLAN**

**Presentation to the  
Flood Management Work Group  
of the Stakeholder Forum**

**Presentation by Bob Battalio, PE, Principal**  
**Philip Williams & Associates, Ltd. (PWA)**  
**Task Leader - Flood Management**

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 **PWA**  
PHILIP WILLIAMS & ASSOCIATES, LTD.  
CONSULTANTS IN HYDROLOGY

**South Bay Salt Ponds : Data Acquisition Plan**

**Purpose**

**Data Acquisition Plan will guides the collection of information pertinent to restoration planning by:**

- **Identifying topics of data collection and sources**
- **Specifying data collection processes and protocols**

**South Bay Salt Ponds**

**Work Product**

**The results of the Information Gathering Task will help provide a sound scientific basis for the restoration planning. The Product will be:**

- **A bibliography of published and unpublished literature/reports/data**
- **A GIS database of existing spatial data**
- **A Data Summary Report**
  - **pertinent information found**
  - **identify critical data gaps**
  - **present recommendations for filling those gaps**

**South Bay Salt Ponds**

**Information Gathering For Flood Management Task**

<b>Topic</b>	<b>Lead<sup>1</sup></b>	<b>General Description of Information Sought</b>
<b>14a. Flooding Issues Protection</b>	<b>PWA</b>	<ul style="list-style-type: none"> <li>• <b>Existing level of flood protection</b></li> <li>• <b>Areas subject to tidal flooding and associated economic damages</b></li> <li>• <b>Review of Reports:</b> <ul style="list-style-type: none"> <li>– Siegel &amp; Bachand information</li> <li>– Flood reports from the Corps</li> <li>– M&amp;N reports for SBSP</li> <li>– reports from Alameda and Santa Clara flood control districts</li> <li>– FEMA coastal flood insurance studies</li> <li>– Other sources.</li> </ul> </li> </ul>
<b>14b. Levee Conditions</b>	<b>Geomatrix</b>	<ul style="list-style-type: none"> <li>• <b>Existing levee conditions</b></li> <li>• <b>Required maintenance to support existing conditions.</b></li> </ul>

## South Bay Salt Ponds

### Bibliographic information

A manual for assessing restored and natural coastal wetlands with examples from Southern California

Zedler et al: Pacific Estuarine Research Laboratory	1990
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<b>Reference type:</b>	Report
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Full reference: Zedler et al: Pacific Estuarine Research Laboratory . 1990 A manual for assessing restored and natural coastal wetlands with examples from Southern California. California Sea Grant Report No. T-CSGCP-021

A Review of the Physical and Biological Performance of Tidal Marshes Constructed with Dredged Material in San Francisco Bay, California, Draft Report.

<a href="#"><u>Long Term Management Strategy (LTMS)</u></a>	1994
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<b>Reference type:</b>	Report
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#### [View Details](#)

Results summary or abstract

Previous studies have correlated dredged sediment placed at high elevations (approximately 0.5 ft below MHHW) with poor tidal channel formation (LTMS 1994); if the high marsh goal does not depend on extensive channel formation, then such a concern would not apply.

## South Bay Salt Ponds

### Geographic Information System Data

**EDAW will coordinate GIS data gathering for the PWA Team and will create a data dictionary of all GIS data collected for this project. SFEI will ultimately host this GIS information.**

**PWA team will assess the quality and usability of the existing GIS data in several ways:**

- **by coordinating GIS data collection efforts with SFEI and the City of San Jose ESD;**
- **by reviewing the metadata, if it exists, to assess whether or not a scientifically valid process was used;**
- **by contacting the source of the information to discuss how they created the dataset (especially if there is no metadata), and;**
- **by comparing the data to other sources of information and discussing the information with local experts and our technical staff.**

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Type of Information

Topic #	Topic Name	Type of Information to be Sought
14	Flood Protection	<ul style="list-style-type: none"> <li>Existing Infrastructure;</li> </ul>
14a	Flooding Issues Protection	<ul style="list-style-type: none"> <li>Existing level of flood protection;</li> <li>Coastal and riverine flood studies;</li> <li>Areas subject to riverine flooding;</li> <li>Areas subject to tidal flooding, and;</li> <li>Economic impacts of tidal flooding.</li> </ul>
14b	Levee Conditions	<ul style="list-style-type: none"> <li>Construction methods of levees;</li> <li>Levee materials, and;</li> <li>Subsurface conditions beneath levees.</li> </ul>

**South Bay Salt Ponds**

Source of Information

SOURCE				GIS/ Mapping Data
Institution	Interest Group	Name	Contact Information	
<b>Private Firms</b>				
Hultgren Tillis Engineers	Levee Flood Management Report - due in February 2004	Ed Hultgren		
Moffatt & Nichol		Dilip Trivedi	<a href="mailto:dtrivedi@moffattnichol.com">dtrivedi@moffattnichol.com</a> (925) 944-5411	
Terra Server VGIS	VGIS			
<b>Federal</b>				
USACE FEMA Mapping				
US Geological Survey (USGS)			<a href="http://ca.water.usgs.gov">http://ca.water.usgs.gov</a>	

<b>South Bay Salt Ponds</b>				
Source of Information				
<b>SOURCE</b>				<b>GIS/ Mapping Data</b>
<b>Institution</b>	<b>Interest Group</b>	<b>Name</b>	<b>Contact Information</b>	
<b>Counties</b>				
Alameda County Environmental Services			<a href="http://www.co.alameda.ca.us/aceh/index.htm">http://www.co.alameda.ca.us/aceh/index.htm</a> 510-567-6790	x
	Environmental Services	Rick Baker	(510) 670-5776	
	Environmental Health Department	General contact	(510)567-6790	
Alameda County Flood Control District			<a href="http://www.co.alameda.ca.us/pwa/flood.shtml">http://www.co.alameda.ca.us/pwa/flood.shtml</a>	
		Hank Ackerman	(510)670-5553	
		Ralph Johnson	<a href="mailto:joh19701@comcast.net">joh19701@comcast.net</a>	

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<b>Institution</b>	<b>Interest Group</b>	<b>Name</b>	<b>Contact Information</b>	
<b>Parks</b>				
East Bay Regional Parks District		Brad Olson	<a href="mailto:bolson@ebparks.org">bolson@ebparks.org</a> 510-544-2622	
<b>Water Districts</b>				x
Santa Clara Valley Water District (SCVWD)	District's Project Manager for SBSPR	Beth Dyer	<a href="mailto:bdyer@valleywater.org">bdyer@valleywater.org</a> (408) 265-2600 x3125	
	Mercury TMDL, CALFED Mercury Strategy, Guadalupe River (draft conceptual model and synoptic surveys), Pond A4	Dave Drury	<a href="mailto:ddrury@valleywater.org">ddrury@valleywater.org</a> (408)265-2600	

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<b>Water Districts</b>				x
Santa Clara Valley Water District (SCVWD)	Tudor Study - inboard levees analysis from the 1970's	Bob Teeter		
		Jim Fiedler	(408) 265-2600	
<b>Data Gaps Workshop Attendees</b>	<b>Title</b>	<b>Company</b>	<b>Contact Information</b>	<b>GIS/ Mapping Data</b>
Hall, Brad		Northwest Hydraulics	<a href="mailto:bhall@nhc-sac.com">bhall@nhc- sac.com</a> 916-371- 7400	
Warnock, Nils	Wetlands Program Co- Director	Point Reyes Bird Observatory	<a href="mailto:nilsw@prbo.org">nilsw@prbo.org</a>	