

California's Surface Water Ambient Monitoring Program



“SWAMP” Data Management Update -

SRWP workshop

Aug 19, 2004

SWAMP Background



- Required by AB 982 (WC sec.13192)
- Comprehensive state program (surface water)
 - Coordinate all Board ambient water quality monitoring Programs/projects
 - High Quality Data
 - Comparable
 - Accessible

Proposal for a Surface Water Quality Monitoring Program November 2000

Comprehensive monitoring program to meet
all Clean Water Act needs for all water
types and pollutant sources

Requested

\$59 to \$115 Million

87 to 132 positions

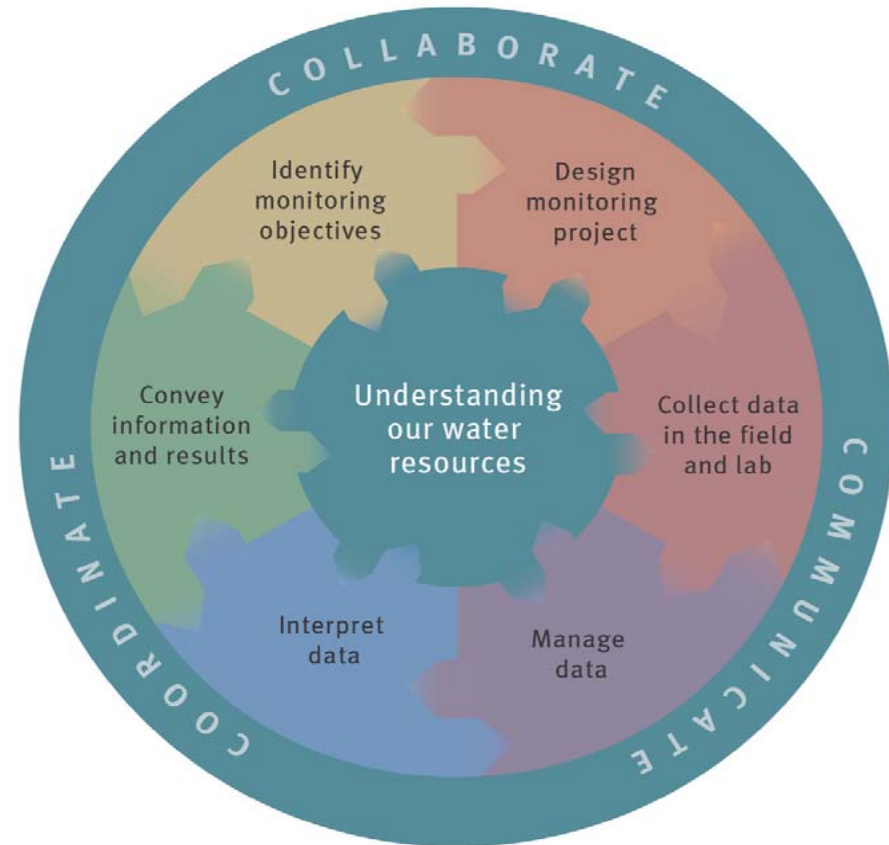
Reality

\$3.4 Million

10 positions
fees

Providing a state framework for ambient water quality monitoring


- Coordination of high quality, consistent, scientifically defensible methods, strategies
- To allow for integration and use of data within broader context



SWAMP Goals--2004



- Consistent and objective sampling, analysis and assessment methods
- Consistent data quality assurance
- **Data management system -- inclusive, integrated, accessible**

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- SWAMP Data Management Team --Moss Landing Marine Lab
 - SWAMP Information Management System Plan Interim Draft

http://www.swrcb.ca.gov/swamp/docs/appxj_infomgmtsystemplan.doc

SWAMP Data Management Goals:



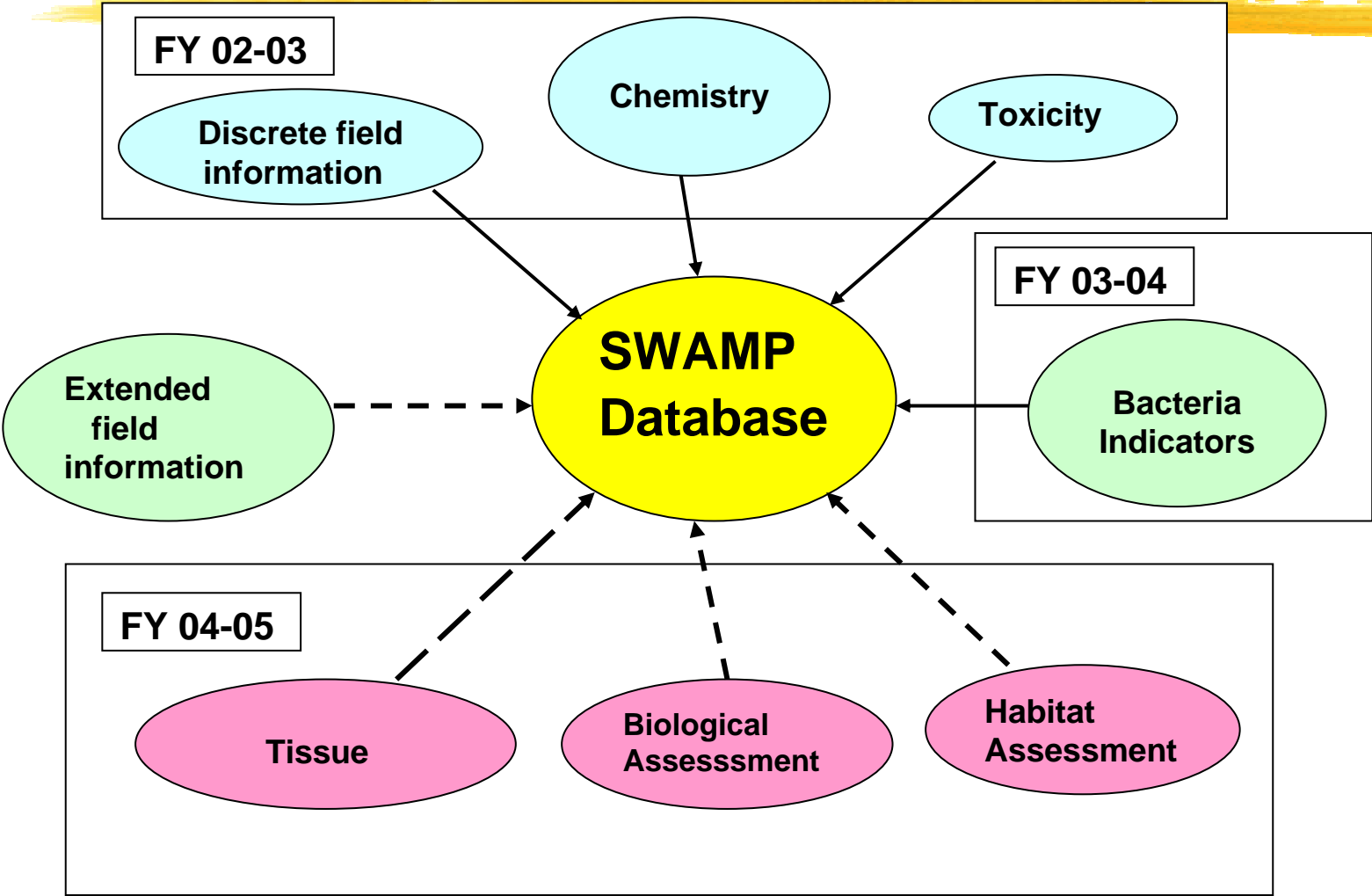
- Inclusive of all types of water quality monitoring data
- Integrated data management system
- Publicly accessible
- “SWAMP-compatible”

SWAMP Data Management

Goal: Inclusive of all types of water quality monitoring data types:

- Data Types:
 - chemical, toxicity and field data (discrete)
 - tissue, bacteria indicators, biological, habitat characteristics, continuous field monitoring data
- Training
 - On-site
 - User's guide

Status:

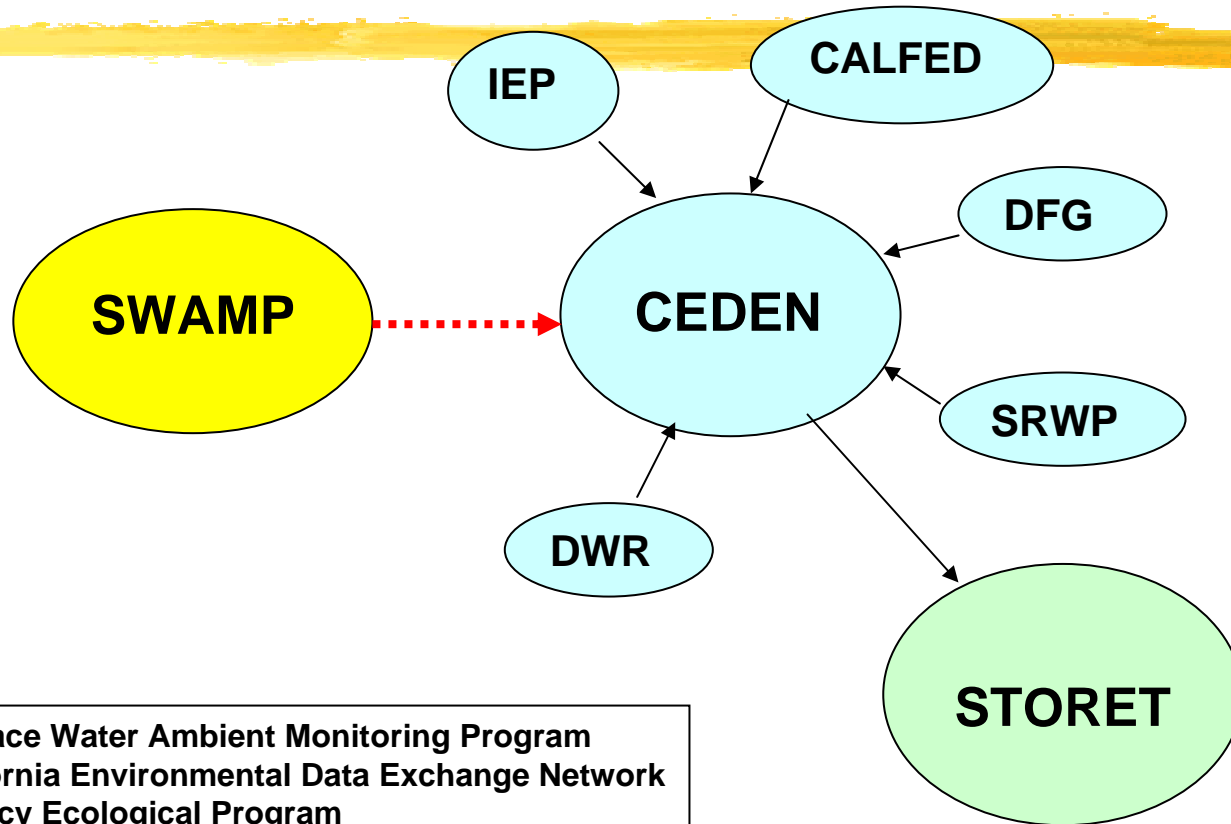


Goal: Integrated data management



- SWAMP--->California Environmental Data Exchange Network (CEDEN)
- CEDEN link to STORET (USEPA's Storage and Retrieval Database)
- SWAMP link to SCCRWP and SFEI
- SWAMP-->CA Water Quality Information System (CWQIS)

Database Integration



SWAMP = Surface Water Ambient Monitoring Program
CEDEX = California Environmental Data Exchange Network
IEP = Interagency Ecological Program
DFG = Department of Fish & Game
SRWP – Sacramento River Watershed Program
DWR = Department of Water Resources
CALFED = State and Federal Interagency Group

Goal: Accessible to public

The screenshot shows a Microsoft Internet Explorer browser window displaying a web application titled "DBIMap: Field Measurements - Microsoft Internet Explorer provided by Compaq". The address bar shows the URL: http://sarabande.water.ca.gov:8000/~bdt/db/ingsvr/field_dwr_new_l1.html. The main content area is titled "Field Measurements Results" and features a search interface. The "Query parameters:" section includes a text input field with the placeholder "Type the first few letters of the word:" and a "Search" button. Below this is a list of project names, with "State Water Resources Control Board => Surface Water Ambient Monitoring Program" selected. To the right of the list are buttons for "Refresh Project...", "Select every Project..." (checked), "Clear every Project..." (unchecked), and "Select all data..." (checked). A "Keyword" input field and another "Search" button are also present. The "Selection" tab is active, showing a table with columns for "Station code", "Agency name", "Project", "Library url", "StationName", "location", "sample_date", and "SampleDate". The table content is partially visible, showing "x0.station_code|agency_name|Project|library_url|StationName|location|sample_date|s". Below the table, there are buttons for "SQL", "Advanced...", and "Count". A "Format" dropdown is set to "Export to Excel", and a "Display Limit" is set to "2000". There are also buttons for "Show Map" and "Retrieve". At the bottom, a status bar indicates "Retrieve data based on current selection." and "0%". The footer of the browser shows "Retrieved 50 entries." and "Internet".

Field Measurements Results

Query parameters: Type the first few letters of the word:

Project: [input field]

Station: City of Stockton => San Joaquin River Dissolved Oxygen Study

Matrix: City of Turlock => San Joaquin River Dissolved Oxygen Study

Method: East Bay Municipal Utility District => Mokelumne River Salmon and Steelhead Monitoring

Analyte: S. P. Cramer and Associates => Stanislaus River Emigration Study

SampleDate: SWRP => Sacramento River Watershed Project

State Water Resources Control Board => Surface Water Ambient Monitoring Program

United States Bureau of Reclamation => San Joaquin River Dissolved Oxygen Study

United States Fish and Wildlife Service => Red Bluff Fish and Wildlife Office

United States Fish and Wildlife Service => Stockton Office, Juvenile Salmon Monitoring

Refresh Project...

Select every Project...

Clear every Project...

Select all data...

Keyword [input field] Search

Selection | Advanced

==== Column Layout =====

x0.station_code|agency_name|Project|library_url|StationName|location|sample_date|s

==== Criteria =====

Project: State Water Resources Control Board => Surface Water Ambient M

Station: Select All

Matrix: Select All

Method: Select All

Analyte: Select All

SampleDate: Between 1961-10-18 and 2004-08-11

Format: Export to Excel

Display Limit: 2000

SQL Advanced... Count

Show Map Retrieve

Retrieve data based on current selection. 0%

[[Main](#) | [Help](#)]

Retrieved 50 entries. Internet

SWAMP:



- Required by AB 982 (WC sec.13191)
- Coordinate all Board ambient water quality monitoring Programs/projects
 - Comprehensive state program (surface water)
 - High Quality Data
 - Comparable data
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Monitoring Coordination: SWAMP Compatible

