

**California Department of Water Resources
Enterprise GIS Data Set
Initial Stewardship Plan (ISP)**

Data Set Name: i07_Station_Monitor_EMP
Feature Class: i07_Station_Benthos_Active

ISP Submittal Date: 11/03/2015

Data Set Steward Name: Elizabeth (Betsy) Wells
Department of Water Resources
Division of Environmental Services
3500 Industrial Blvd., West Sacramento, CA 95691
(916) 376-9821
email: elizabeth.wells@water.ca.gov

Data Set Steward Organization within DWR:
Division of Environmental Services
Office of Water Quality
Environmental Water Quality and Estuarine Studies Branch
Bay-Delta Monitoring and Analysis

Data Set Sub-Steward Names: DES GIS Unit, Melody Baldwin

Stewardship Roles & Responsibilities Signoffs:



Data Set Steward, Betsy Wells

3 NOV 15

Date

Geodatabase Administrator, Greg Twist


Data Set Sub-Steward, Melody Baldwin

Date
11/3/15

Date

DWR Enterprise GIS Committee Signoff:

Chair, DWR EGC

Date

Enterprise GIS Dataset Stewardship

Identified Candidate Dataset

Data Set Name: i07_Station_Monitor_EMP

Feature Class: i07_Station_Benthos_Active

Primary Steward: Elizabeth (Betsy) Wells

Department of Water Resources

Division of Environmental Services

3500 Industrial Blvd., West Sacramento, CA 95691

(916) 376-9821

email: elizabeth.wells@water.ca.gov

Division of Environmental Services

Office of Water Quality

Environmental Water Quality and Estuarine Studies Branch

Bay-Delta Monitoring and Analysis

Name and Location Information for Benthos Sampling Sites – Point

Site_Code	Location
D41	San Pablo Bay near Pinole Point (center)
D41A	San Pablo Bay near Pinole Point -north central (center)
C9	Old River upstream of Clifton Court Forebay Intake (left)
D7	Grizzly Bay at Dolphin near Suisun Slough (center)
D4	Sacramento River @ Sherman Island Upstream of Point Sacramento (left)
D16	San Joaquin River at Bradford Island (left)
D24	Sacramento River downstream of Rio Vista bridge (left)
D6	Suisun Bay upstream of I-680 bridge (right)
P8	San Joaquin River at Buckley Cove (right)
D28A-L	Old River upstream of Rock Slough (left)

Benthic monitoring began in 1975. The benthic monitoring has 10 active stations as of 11/01/2015 represented in the above table.

Enterprise GIS Dataset Stewardship

Geodatabase Management Plan

Data Set Name: i07_Station_Monitor_EMP

Feature Class: i07_Station_Benthos_Active

Primary Steward: Elizabeth (Betsy) Wells

Department of Water Resources

Division of Environmental Services

3500 Industrial Blvd., West Sacramento, CA 95691

(916) 376-9821

email: elizabeth.wells@water.ca.gov

Division of Environmental Services

Office of Water Quality

Environmental Water Quality and Estuarine Studies Branch

Bay-Delta Monitoring and Analysis

Feature Class details

- **Size of geodatabase:** 20 KB to 48 KB
- **Feature Class:** 8KB to 10KB
- **Geodatabase:** Point features for monitoring stations within the EMP
- **Updates** to the geodatabase will be done by the sub steward when needed. The Steward and sub steward will meet once a year to discuss if changes are needed.
- **Steward** will notify the sub steward of any monitoring station changes
- The **sub steward** will update the Enterprise Geodatabase after Steward updates any monitoring stations for the Benthos Program
- Currently there are no plans for versions or archiving
- Geodatabase with one feature class labeled:

i07_Station_Benthos_Active

Enterprise GIS Dataset Stewardship

Archiving & Maintenance Plan

Data Set Name: i07_Station_Monitor_EMP

Feature Class: i07_Station_Benthos_Act

Primary Steward: Elizabeth (Betsy) Wells

Department of Water Resources

Division of Environmental Services

3500 Industrial Blvd., West Sacramento, CA 95691

(916) 376-9821

email: elizabeth.wells@water.ca.gov

Division of Environmental Services

Office of Water Quality

Environmental Water Quality and Estuarine Studies Branch

Bay-Delta Monitoring and Analysis

Name and Location Information for Benthos Sampling Sites – Point

1. Update procedure will be once a year review or as needed
2. Activated monitoring stations will be added as needed.
3. The estimated annual cost for data maintenance is within the ES program.
4. Re-certifying data meets standards will be done with all updates t stations made by the Steward.
5. The EGC should be notified when there are program data changes or updates.
6. Metadata will be updated as needed.
7. Archiving and versioning are not needed at this time. This is a static dataset. A review of the policy will be made at any update or change.

Enterprise GIS Dataset Stewardship

Data Model

Data Set Name: i07_Station_Monitor_EMP

Feature Class: i07_Station_Benthos_Active

Primary Steward: Elizabeth (Betsy) Wells

Department of Water Resources

Division of Environmental Services

3500 Industrial Blvd., West Sacramento, CA 95691

(916) 376-9821

email: elizabeth.wells@water.ca.gov

Division of Environmental Services

Office of Water Quality

Environmental Water Quality and Estuarine Studies Branch

Bay-Delta Monitoring and Analysis

Station_Monitor_Benthos_Active

Data fields in the attribute table

Field	Data Type	Description
***ID	Object ID	Auto generated by ArcMap
Site_Code	Text	DWR Station ID
Location	Text	Description of Location
Start_Date	Short Integer	Year monitor was activated
Missing_Data	Short Integer	Years which do not have data
Old_Code	Text	Refers to the code the monitoring station used before this code
Current_Status	Text	Active
Comments	Text	Blank to fill in as needed
Source	Text	Data Source is DWR
Last_Modified_Date	Date	Date update was made
Modified_By	Text	Last person to update database

Study Area and Sample Sites

Geographic coverage of the sampling sites ranges from San Pablo Bay east through the upper Estuary to the mouths of the Sacramento, Mokelumne and San Joaquin rivers. The study area currently comprises ten sites that are sampled monthly. These sites represent the active stations being used as of 11/01/2015.

Data Model Schema

The screenshot shows the 'Feature Class Properties' dialog box with the 'Fields' tab selected. The dialog has a title bar with a close button (X) and a tabbed interface. The 'Fields' tab is active, showing a table of field names and data types. Below the table is a section for 'Field Properties' with an 'Alias' field set to 'OBJECTID'. An 'Import...' button is located at the bottom right of the dialog. At the very bottom are 'OK', 'Cancel', and 'Apply' buttons.

Field Name	Data Type
OBJECTID	Object ID
Site_Code	Text
Location	Text
Start_Date	Double
Missing_Data	Text
Old_Code	Text
Current_status	Text
Comments	Text
Source	Text
Last_Modified_by	Text
Modified_By	Text
Shape	Geometry

Click any field to see its properties.

Field Properties

Alias	OBJECTID
-------	----------

Import...

To add a new field, type the name into an empty row in the Field Name column, click in the Data Type column to choose the data type, then edit the Field Properties.

OK Cancel Apply

**California Department of Water Resources
Enterprise GIS Data Set
Initial Stewardship Plan (ISP)**

Data Set Name: i07_Station_Monitor_EMP
Feature Class: i07_Station_Benthos_Historic

ISP Submittal Date: 11/02/2015

Data Set Steward Name: Elizabeth (Betsy) Wells
Department of Water Resources
Division of Environmental Services
3500 Industrial Blvd., West Sacramento, CA 95691
(916) 376-9821
email: elizabeth.wells@water.ca.gov

Data Set Steward Organization within DWR:
Division of Environmental Services
Office of Water Quality
Environmental Water Quality and Estuarine Studies Branch
Bay-Delta Monitoring and Analysis

Data Set Sub-Steward Names: DES GIS Unit, Melody Baldwin

Stewardship Roles & Responsibilities Signoffs:



Data Set Steward, Betsy Wells

3 Nov 15
Date

Geodatabase Administrator, Greg Twist


Data Set Sub-steward, Melody Baldwin

Date
11/3/15
Date

DWR Enterprise GIS Committee Signoff:

Chair, DWR EGC

Date

Enterprise GIS Dataset Stewardship

Identified Candidate Dataset

Data Set Name: i07_Station_Monitor_EMP

Feature Class: i07_Station_Benthos_Historic

Primary Steward: Elizabeth (Betsy) Wells

Department of Water Resources

Division of Environmental Services

3500 Industrial Blvd., West Sacramento, CA 95691

(916) 376-9821

email: elizabeth.wells@water.ca.gov

Division of Environmental Services

Office of Water Quality

Environmental Water Quality and Estuarine Studies Branch

Bay-Delta Monitoring and Analysis

Name and Location Information for Benthos Sampling Sites – Point

C3-C	Sacramento River @ Greens Landing - Center
C3-L	Sacramento River @ Greens Landing - Left
C3-R	Sacramento River @ Greens Landing - Right
C7-C	San Joaquin River @ Mossdale Bridge - Center
C7-L	San Joaquin River @ Mossdale Bridge - Left
C7-R	San Joaquin River @ Mossdale Bridge - Right
C9-C	West Canal @ Clifton Court Forebay Intake - Center
D10-C	Sacramento River @ Chipps Island - Center
D10-L	Sacramento River @ Chipps Island - Left
D10-R	Sacramento River @ Chipps Island - Right
D11-C	Sherman Lake - Center
D11-L	Sherman Lake - Left
D11-R	Sherman Lake - Right
D12-C	San Joaquin River @ Antioch Ship Channel - Center
D14A-C	Big Break - Center
D14A-L	Big Break - Left

D14A-R	Big Break - Right
D16-C	San Joaquin River @ Twitchell Island - Center
D19-C	Franks Tract - Center
D19-L	Franks Tract - Left
D19-R	Franks Tract - Right
D26-C	San Joaquin River @ Potato Point - Center
D26-L	San Joaquin River @ Potato Point - Left
D26-R	San Joaquin River @ Potato Point - Right
D28A-C	Old River @ Rancho Del Rio- Center
D28A-R	Old River @ Rancho Del Rio - Right
D4-C	Sacramento River above Point Sacramento - Center
D4-R	Sacramento River above Point Sacramento - Right
D6-L	Suisun Bay @ Bulls Head nr. Martinez - Left
D6-R	Suisun Bay @ Bulls Head nr. Martinez - Right
D7-L	Grizzly bay @ Dolphin nr. Suisun Slough - Left
D7-R	Grizzly bay @ Dolphin nr. Suisun Slough - Right
D8-C	Suisun Bay off Middle Point near Nichols - Center
D9-C	Honker Bay near Wheeler Point - Center
D9-R	Honker Bay near Wheeler Point - Right
MD6-C	Sycamore Slough near mouth - Center
MD6-L	Sycamore Slough near mouth - Left
MD6-R	Sycamore Slough near mouth - Right
MD7-C	South Fork Mokelumne River - Center
MD7-L	South Fork Mokelumne River - Left
MD7-R	South Fork Mokelumne River - Right
P8-C	San Joaquin River @ Buckley Cove - Center

Period of Record

Benthic monitoring began in 1975. The benthic monitoring has 43 historic stations as of 11/01/2015 represented in the above table. This record will not change and is for reference use.

Enterprise GIS Dataset Stewardship

Geodatabase Management Plan

Data Set Name: i07_Station_Monitor_EMP

Feature Class: i07_Station_Benthos_Historic

Primary Steward: Elizabeth (Betsy) Wells

Department of Water Resources

Division of Environmental Services

3500 Industrial Blvd., West Sacramento, CA 95691

(916) 376-9821

email: elizabeth.wells@water.ca.gov

Division of Environmental Services

Office of Water Quality

Environmental Water Quality and Estuarine Studies Branch

Bay-Delta Monitoring and Analysis

Feature Class details

- **Size of geodatabase:** 20 KB to 48 KB
- **Feature Class:** 8KB to 10KB
- **Geodatabase:** Point features for monitoring stations within the EMP
- **Updates** to the geodatabase will be done by the sub steward when needed. The Steward and sub steward will meet once a year to discuss if changes are needed.
- **Steward** will notify the sub steward of any monitoring station changes
- The **sub steward** will update the Enterprise Geodatabase after Steward updates any monitoring stations for the Benthos Program
- Currently there are no plans for versions or archiving
- Geodatabase with one feature class labeled:

i07_Station_Benthos_Historic

Enterprise GIS Dataset Stewardship

Archiving & Maintenance Plan

Data Set Name: i07_Station_Monitor_EMP

Feature Class: i07_Station_Benthos_Historic

Primary Steward: Elizabeth (Betsy) Wells

Department of Water Resources

Division of Environmental Services

3500 Industrial Blvd., West Sacramento, CA 95691

(916) 376-9821

email: elizabeth.wells@water.ca.gov

Division of Environmental Services

Office of Water Quality

Environmental Water Quality and Estuarine Studies Branch

Bay-Delta Monitoring and Analysis

Name and Location Information for Benthos Sampling Sites – Point

1. Update procedure will be once a year review or as needed
2. Decommissioned monitoring stations will be added as needed.
3. The estimated annual cost for data maintenance is within the ES program.
4. Re-certifying data meets standards will be done with all updates to historic stations made by the Steward.
5. The EGC should be notified when there are program data changes or updates.
6. Metadata will be updated as needed.
7. Archiving and versioning are not needed at this time. This is a static dataset. A review of the policy will be made at any update or change.

Enterprise GIS Dataset Stewardship

Data Model

Data Set Name: i07_Station_Monitor_EMP

Feature Class: i07_Station_Benthos_Historic

Primary Steward: Elizabeth (Betsy) Wells

Department of Water Resources

Division of Environmental Services

3500 Industrial Blvd., West Sacramento, CA 95691

(916) 376-9821

email: elizabeth.wells@water.ca.gov

Division of Environmental Services

Office of Water Quality

Environmental Water Quality and Estuarine Studies Branch

Bay-Delta Monitoring and Analysis

Benthic_Monitoring_Stations_Historical

Data Dictionary

Data fields in the attribute table include the following:

Field	Data Type	Description
***ID	Object ID	Auto generated by ArcMap
Site_Code	Text	DWR Station ID
Location	Text	Description of Location
From_of_Record	Short Integer	Year monitor was activated
To	Short Integer	Years monitor was inactivated
Missing_Data	Short Integer	Years which do not have data
Old_Code	Text	Refers to the code the monitoring station used before this code

Study Area and Sample Sites

Geographic coverage of the sampling sites ranges from San Pablo Bay east through the upper Estuary to the mouths of the Sacramento, Mokelumne and San Joaquin rivers. The study area currently comprises ten sites that are sampled monthly. These sites represent the historic stations not being used as of 11/01/2015.

Data Model Schema

Feature Class Properties

General Editor Tracking XY Coordinate System Domain, Resolution and Tolerance

Fields Indexes Subtypes Feature Extent Relationships Representations

Field Name	Data Type
OBJECTID	Object ID
Num	Double
Site_Code	Text
Location	Text
From_of_Record	Double
To	Text
Missing	Text
Old_Code	Text
Shape	Geometry

Click any field to see its properties.

Field Properties

Alias	OBJECTID
-------	----------

Import...

To add a new field, type the name into an empty row in the Field Name column, click in the Data Type column to choose the data type, then edit the Field Properties.

OK Cancel Apply