

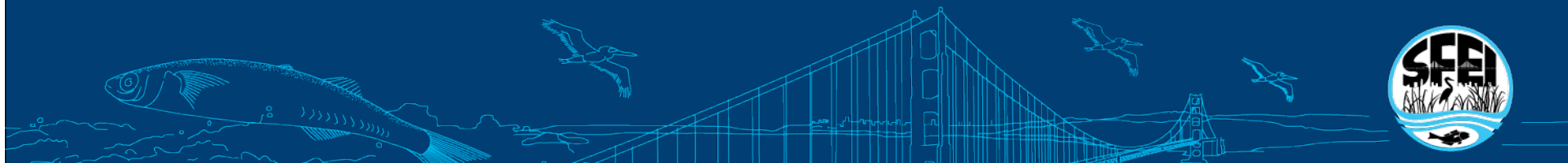
# RMP Data Management: 2009 Highlights and 2010 Goals

Cristina Grosso, John Ross, Amy Franz,  
Donald Yee, Sarah Lowe, Todd  
Featherston, John Oram, Jen Hunt,  
Shira Bezalel, Patty Frontiera



# 2009 Highlights

- **Uploaded new data to database**
  - 2008 S&T data
  - 2006 trace organics tissue data
- **Maintained SWAMP/CEDEN comparability**



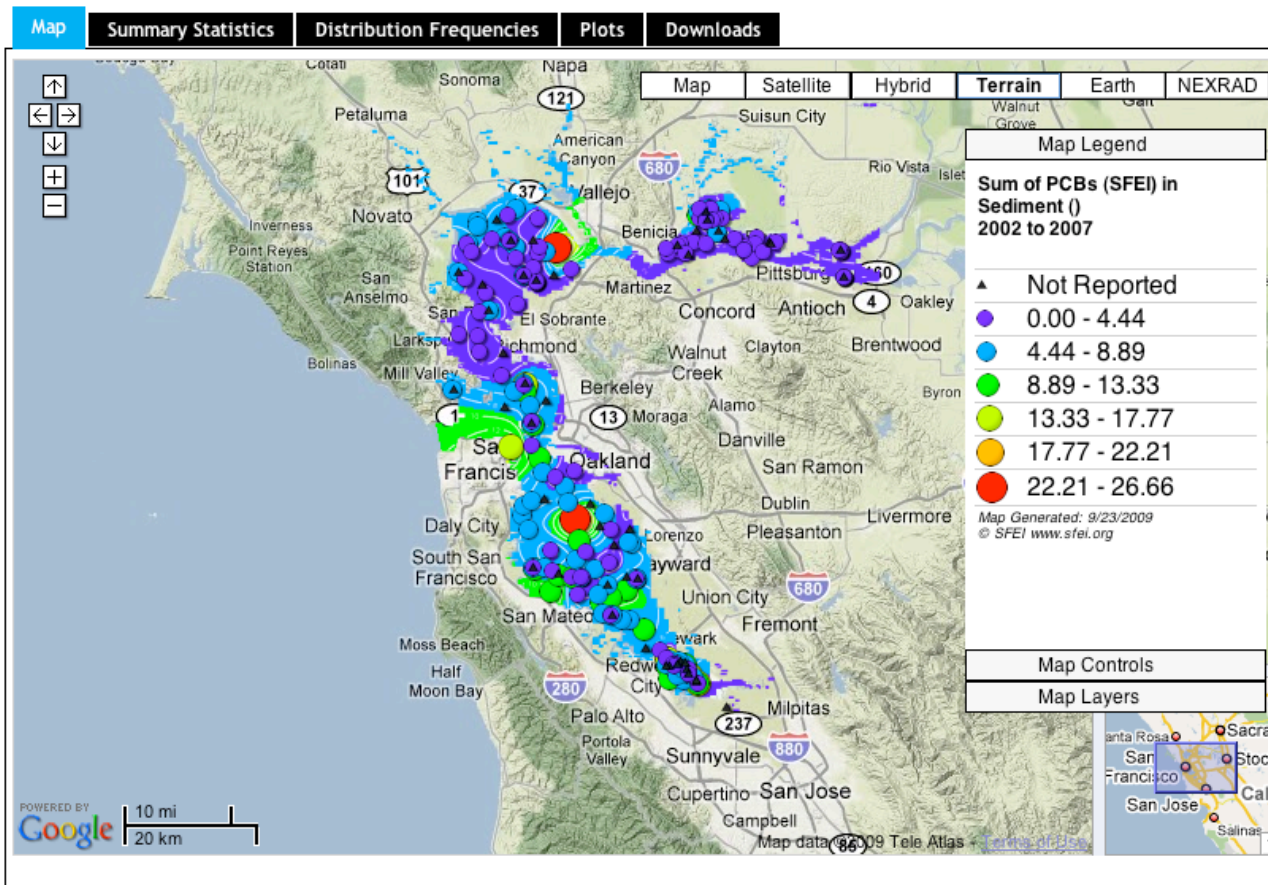
# SAN FRANCISCO ESTUARY INSTITUTE WEB QUERY TOOL

FEEDBACK

RMP

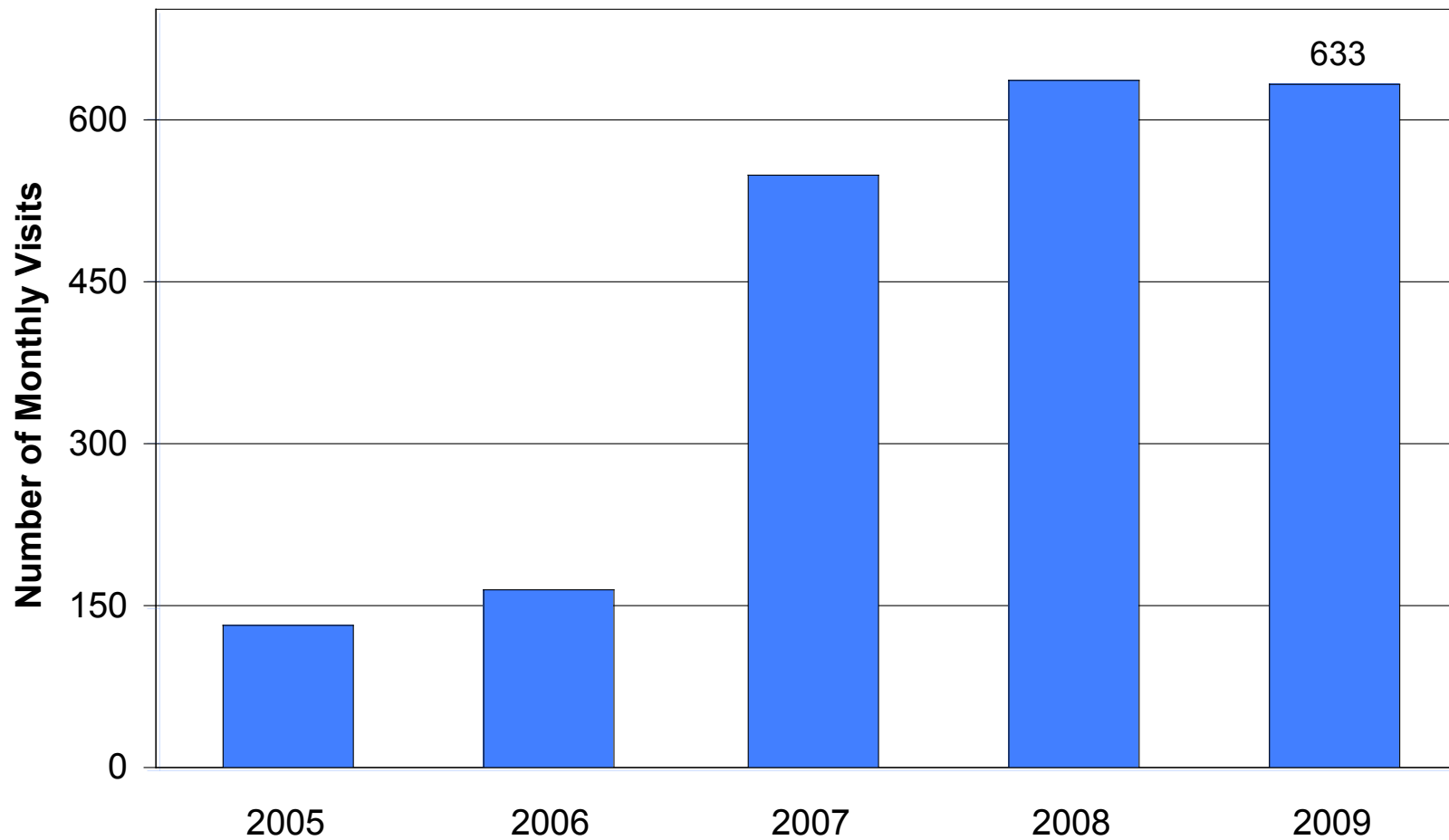
FMP

- ✓ Test Material: **SEDIMENT**
- ✓ Start Collection Year: **2002**
- ✓ End Collection Year: **2007**
- ✓ Parameter Type: **POLYCHLORINATED BIPHENYLS (PCB)**
- ✓ Analyte: **SUM OF PCBs (SFEI)**



# Data Access: Web Use

External Use of RMP Data Web Query Tool



# 2009 Highlights

- Uploaded new data to database
- Maintained SWAMP/CEDEN comparability
- **Enhanced field entry & COC tools**





# Field Data Entry Form: Water

## Sampling Event Info

Station Code:

Sample Date:   
(dd/mm/yyyy)

### People

Data Entry:

Field Measurements:

Samples:

Event Comments:

## Field Measurements

Analyte:	Units:	Result:	Comments:
<input type="text" value="Oxygen, Dissolved"/>	<input type="text" value="% saturation"/>	<input type="text" value="88.1"/>	<input type="text"/>
<input type="text" value="Temperature"/>	<input type="text" value="°C"/>	<input type="text" value="22.27"/>	<input type="text"/>
<input type="text" value="Conductivity"/>	<input type="text" value="mS/cm"/>	<input type="text" value="1.495"/>	<input type="text"/>
<input type="text" value="Salinity"/>	<input type="text" value="ppt"/>	<input type="text" value="0.77"/>	<input type="text"/>
<input type="text" value="pH"/>	<input type="text" value="pH"/>	<input type="text" value="8.43"/>	<input type="text"/>

Instrument:

## Samples

Analyte:	Container:	Container ID:	Vol. Filtered:	Vol. Filt. Unit:	Filter No.	# of Filters:	Comments:
<input type="text" value="POC (filtered)"/>	<input type="text" value="40 mL glass"/>	<input type="text" value="RMP 08WC-1093"/>	<input type="text" value="314"/>	<input type="text" value="ml"/>	<input type="text" value="3"/>	<input type="text" value="1"/>	<input type="text" value="Started with filter 12 but pump was put together wro"/>
<input type="text" value="Chlorophyll/Phae"/>	<input type="text" value="40 mL amber vials v"/>	<input type="text" value="RMP 08WC-1099"/>	<input type="text" value="1020"/>	<input type="text" value="ml"/>	<input type="text" value="NA"/>	<input type="text" value="3"/>	<input type="text" value="20 ml 90% methanol added"/>
<input type="text" value="DOC (dissolved)"/>	<input type="text" value="250 mL plastic"/>	<input type="text" value="RMP 08WC-1094"/>	<input type="text" value="314"/>	<input type="text" value="ml"/>	<input type="text" value="NA"/>	<input type="text" value="1"/>	<input type="text" value="250ml plastic bottle from CAS"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="ml"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



# Field Data Entry Form: Sediment

## Sampling Event Info

Station Code:

Sample Date:   
(dd/mm/yyyy)

Core Depth:  cm

### People

Data Entry:

ORP Measurements:

Samples:

Event  
Comments:

## ORP Measurements (oxidation/reduction potential)

Parameter:	Result:	Unit:	ORP Device:	Probe Depth:	Depth Unit:	Start Time:	End Time:	Equal Time (min):	Comments:
<input type="text" value="ORP"/>	<input type="text" value="196"/>	<input type="text" value="mV"/>	<input type="text" value="Multi 340i"/>	<input type="text" value="1"/>	<input type="text" value="cm"/>	<input type="text" value="12:00:00 AM"/>	<input type="text" value="12:10:00 AM"/>	<input type="text" value="10"/>	<input type="text"/>
<input type="text" value="ORP"/>	<input type="text" value="155"/>	<input type="text" value="mV"/>	<input type="text" value="Multi 340i"/>	<input type="text" value="6"/>	<input type="text" value="cm"/>	<input type="text" value="12:10:00 AM"/>	<input type="text" value="12:20:00 AM"/>	<input type="text" value="10"/>	<input type="text"/>
<input type="text" value="ORP"/>	<input type="text" value="52"/>	<input type="text" value="mV"/>	<input type="text" value="Multi 340i"/>	<input type="text" value="9"/>	<input type="text" value="cm"/>	<input type="text" value="12:20:00 AM"/>	<input type="text" value="12:30:00 AM"/>	<input type="text" value="10"/>	<input type="text"/>
<input type="text" value="ORP"/>	<input type="text"/>	<input type="text" value="mV"/>	<input type="text" value="Multi 340i"/>	<input type="text"/>	<input type="text" value="cm"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## Samples

Analyte:	Container:	Container ID:	Vial No.	Comments:
<input type="text" value="TN &amp; TOC (total nitrogen &amp; total organic car"/>	<input type="text" value="Plastic scintillation vial"/>	<input type="text" value="RMP08SC-2376"/>	<input type="text" value="6"/>	<input type="text"/>
<input type="text" value="TN &amp; TOC (total nitrogen &amp; total organic car"/>	<input type="text" value="Plastic scintillation vial"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

# SAMPLE COLLECTION



DATA COLLECTION

LABELS

COCs

EDDs



## DATA COLLECTION FOR GENERATING COCs



[MAIN MENU](#)

### SITE

Site Name:

Address:

Agency Jurisdiction:

Latitude:  Longitude:

Accuracy:  m.

Land Use of Site:

[NEW SITE](#)

Site Access:

Site Description:

### SAMPLERS

Sampler 1:

Sampler 2:

### SAMPLING

Sample Date:

Sample Time:

Solid / Liquid:

Sample Type:

Bottle Size:  oz.

Sample Comments:

Post Field Processing:

### Complete Sample Id

20080911SAG304

### Sample Photos

Shot Num:

Photo Description:



## ANALYTES

* Analyte Time:	<input type="text" value="7:54"/>	End Time:	<input type="text"/>	* Bottle Type:	<input type="text" value="Amber Glass"/>	* Sample Replicate:	<input type="text" value="1"/>
* Analyses:	<input type="text" value="HgT"/>	* Number of Bottles:	<input type="text" value="1"/>	COC Remarks to Lab:			
* Preservative:	<input type="text" value="I"/>	* Bottle Size:	<input type="text" value="1"/> <input type="text" value="L"/>	<input type="text"/>			
Post Field Proc.:	<input type="text"/>	Stage:	<input type="text"/>	Internal Comments:			
* Sample Type:	<input type="text" value="Grab"/>	Turb1:	<input type="text"/>	Turb3:	<input type="text"/>	<input type="text"/>	
* Matrix Code:	<input type="text" value="FSW"/>	Turb2:	<input type="text"/>	Turb Av:	<input type="text"/>	<input type="text"/>	

**Analyte 1 of 10 from SampleId Z4LA-900**

Sample 1 of 6

\* Required Field

San Francisco Estuary Institute  
7770 Pardee lane  
Oakland, CA, 94621-1424

Phone: 510-746-7334 Fax: 510-746-7300

Bill to: San Francisco Estuary Institute  
7770 Pardee lane  
Oakland, CA, 94621-1424

Phone: 510-746-7334 - Fax: 510-746-730

Shipped to: East Bay MUD Laboratory

Sampled by [Print Name(s)]/Affiliation **SFEI / Kat Ridolfi**

Sampler(s) Signature(s)

Analyses Requested

Project Name:

Prop. 13 - 5031

Sample ID No.	Sampled		Grab or Composite	Matrix (see codes)	Number/Size/Type of Containers	HgT	PCBs	Grain size < 63 µm								Remarks
	Date	Time														
20080926SAG306 A	9/26/2008	10:45	G	SE	8											
20080911SKR305 A	9/11/2008	13:30	G	SE	8											
20080911SAG304 A	9/11/2008	13:45	G	SE	8											

Shipment Method

3

← Total Number of Containers

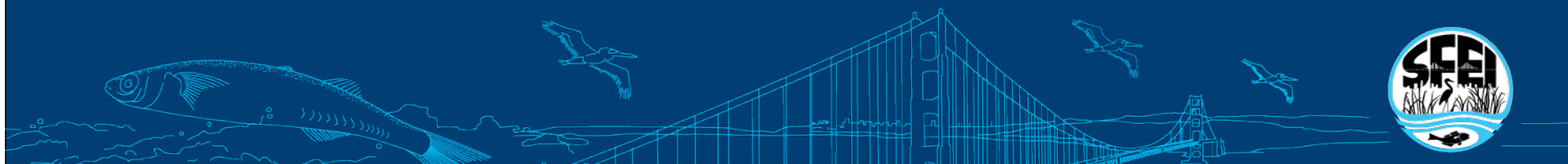
Out: / /	Via:	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time

MATRIX CODES: F = Freshwater S = Saline SE = Sediment SW = Surface Water PW = Porewater B = Blanks T = Toxicity O = Other (spe

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

# 2009 Highlights

- Uploaded new data to database
- Maintained SWAMP/CEDEN comparability
- Enhanced field entry & COC tools
- **Modified data submittal tool**



# SAN FRANCISCO ESTUARY INSTITUTE

Region-wide Science for Ecosystem Management



## SFEI Data Checker - September 22, 2009

Instructions how to use this form: [Chemistry](#) [Tissue](#) [Toxicity](#)

Data Category:

Chemistry

Your Email Address:

cristina@sfei.org

Send me email with error results

Your Agency:

AMS-CA	Applied Marine Sciences, Inc. California
AXYS	Axys Analytical Services Ltd .
BR	Brooks Rand Labs
CCSF	City and County of San Francisco
CCSF-OBL	City and County of San Francisco - Oceanside Biology Lab
CCSF-ORG	City and County of San Francisco - Organics Lab
CSJ	City of San Jose Water Pollution Control Plant
CSUSM	California State University, San Marcos

File to Upload:

C:\Documents and Settings\Admin\Desktop\EDD CHECKER FILES\2008AXYS\_WA

Browse...

Check Excel File

[Troubleshooting & LookUp Lists](#)

## Processing Chemistry Results ....

---

### Processing parameters

- Filename uploaded by user: 2008AXYS\_WATER\_PBDE\_fde.xls
- Excel file saved: C:\Temp\Uploads\2008AXYS\_WATER\_PBDE\_fde092209160728.xls
- TimeStamp for transaction: 092209160728
- Agency: AXYS
- User Email: cristina@sfei.org

Checking complete.

**Errors were found in your data.**

[Click here to review the processing results.](#)

Note: *An e-mail with the results has been sent to you if requested one with your submittal.*

 [Back to Main Page](#)

 [Back to Main Page](#)

## Errors found in LabBatch Worksheet:

Error	Excel Row	Error Field	Erroneous Value	LabBatch	LabAgencyCode	LabBatchSubmissionCode	SubmittingAgencyCode	LabBatchComm
Unmatched LabBatch in LabBatch Worksheet	2	LabBatch	"WG25959"	"WG25959"	"AXYS"	"A"	"AXYS"	"{IS NULL}"
Unmatched LabBatch in LabBatch Worksheet	4	LabBatch	"WG26396"	"WG26396"	"AXYS"	"A"	"AXYS"	"{IS NULL}"
Unmatched LabBatch in LabBatch Worksheet	5	LabBatch	"WG26397"	"WG26397"	"AXYS"	"A"	"AXYS"	"{IS NULL}"
Unmatched LabBatch in LabBatch Worksheet	7	LabBatch	"WG26889"	"WG26889"	"AXYS"	"A"	"AXYS"	"{IS NULL}"

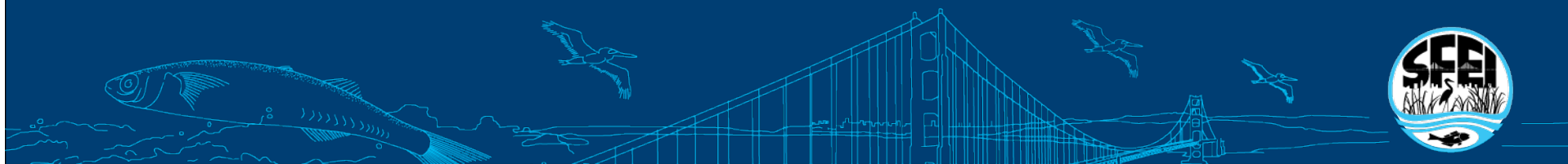
**Submit Data To SFEI if no errors in file**

[Troubleshooting & LookUp Lists](#)

 [Back to Main Page](#)

# 2009 Highlights

- Uploaded new data to database
- Maintained SWAMP/CEDEN comparability
- Enhanced field entry & COC tools
- Modified data submittal tool
- Improved web site design & reporting







Home :: [Programs](#) :: [Regional Monitoring Program](#) :: Regional Monitoring Program

## Regional Monitoring Program

The RMP is SFEI's largest program and monitors contamination in the Estuary. It provides water quality regulators information they need to manage the Estuary effectively. The RMP is an innovative collaborative effort between SFEI, the Regional Water Quality Control Board, and the regulated discharger community. [More](#)

### Search

### Navigation

- [What is the RMP?](#)
- ▶ [Program Structure](#)
- [Program Objectives](#)
- ▶ [Status & Trends Monitoring](#)
- ▶ [Pilot & Special Studies](#)
- ▶ [RMP Data](#)
- ▶ [Committees and Workgroups](#)
- ▶ [Annual Meetings](#)
- ▶ [RMP Annual Reports and Publications](#)
- [Glossary](#)

### News and Notables



Oct-05-09

**SF Bay's slide in mud worries scientists**  
Millions of tons of sand and clay that Gold Rush miners scoured from the Sierra Nevada have finally flushed out to sea after more than a century in San Francisco Bay...



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May-01-09

**SWAMP Bioaccumulation Monitoring Lakes and Survey Report**  
SFEI providing technical leadership for SWAMP's new statewide bioaccumulation monitoring program

### Meetings and Events



Dec-09-09

**RMP Technical Review Committee Meeting**

[View Calendar](#)

### Quicklinks

- [Committees and Workgroups](#)
- [Data Access](#)
- [Pulse of the Estuary](#)
- [2009 Annual Meeting](#)



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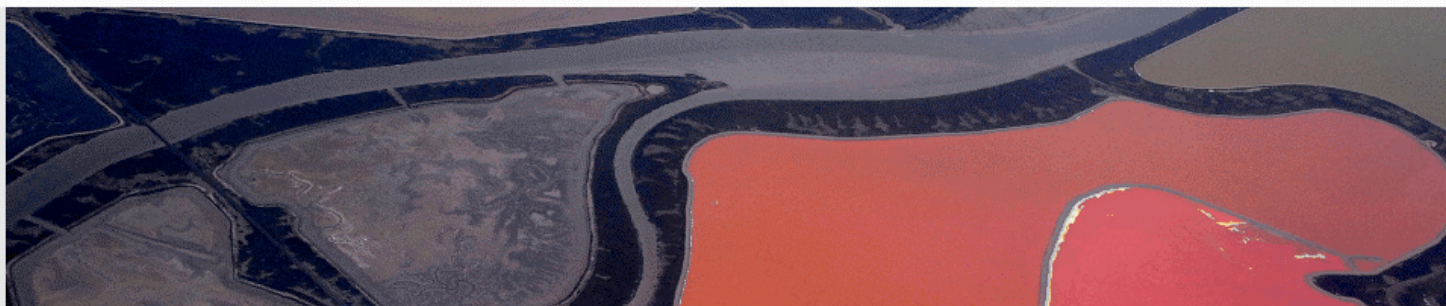
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- [Glossary](#)



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## RMP Data

### Data Access

RMP data can be accessed via our [Web Query Tool](#). Results provided are updated as needed with reanalyzed results and corrections. Please contact [Cristina Grosso](#) for recent changes. Database was last updated on 6/17/09.

### Sampling Stations

Maps of RMP sampling stations are included as attachments at the bottom of this page.

### Quality Assurance & Quality Control

- [1999 Quality Assurance Project Plan](#)
- [RMP Field Operations Manual](#)

### Usage and Publication Policy

One of the main principles of the RMP is to obtain and provide data in a timely manner to a variety of potential users. All RMP data goes through both an internal and external review before it is released to the public. The purpose of this Policy Statement is to provide some guidelines for usage, reporting, and publication of RMP data. It is not the intent of this Policy to restrict RMP data usage or availability.

All of the RMP data have been obtained and analyzed using funding from Bay dischargers and dredgers. Therefore, the data are public domain and the RMP cannot constrain the availability or usage of the data. However, prudent usage, knowledge of the data quality, and professional courtesy should all be considered in obtaining and using RMP data.

### Search

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- ▼ [RMP Data](#)
  - [RMP Web Query Tool](#)
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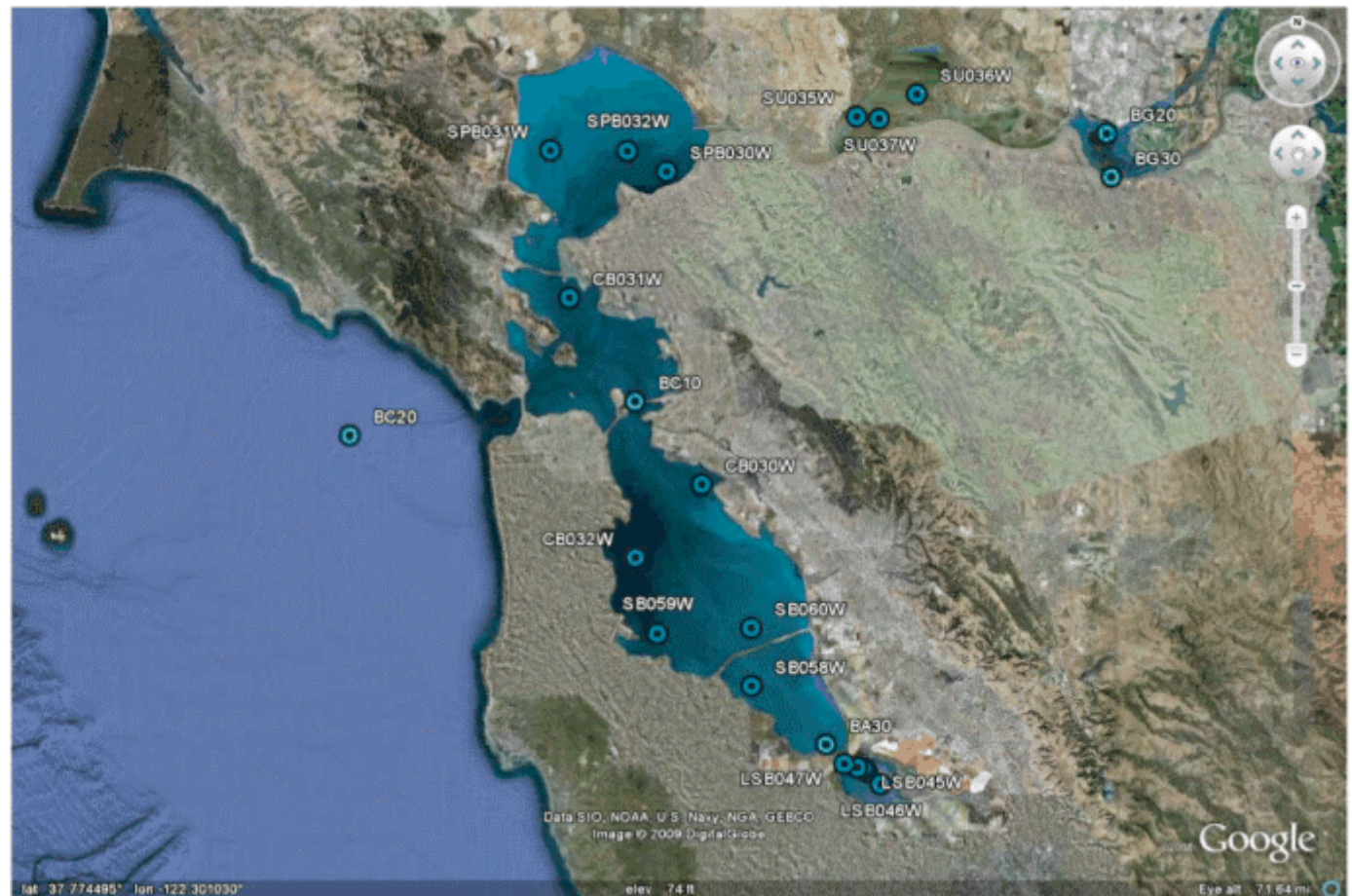
Attachment	Size
<a href="#">1993-2001 Water Stations (jpg)</a>	753.11 KB
<a href="#">1993-2001 Sediment Stations (jpg)</a>	750.67 KB
<a href="#">1993-2001 Bivalve Stations (jpg)</a>	745.67 KB
<a href="#">2002 Water Stations (jpg)</a>	775.68 KB
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<a href="#">2002 Bivalve Stations (jpg)</a>	739.81 KB
<a href="#">2003 Water Stations (jpg)</a>	768.26 KB
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<a href="#">2005 Water Stations (jpg)</a>	634.14 KB
<a href="#">2005 Sediment Stations (jpg)</a>	1.04 MB
<a href="#">2005 Bivalve Stations (jpg)</a>	756 KB
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<a href="#">2008 Bivalve Stations (jpg)</a>	233.31 KB
<a href="#">2009 Water/Sediment Stations (pdf)</a>	343.93 KB
<a href="#">2010 Water/Sediment/Bivalve Target Stations (pdf)</a>	632.89 KB



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### WATER STATIONS 2010

Site Code	Target Longitude	Target Latitude
BA30	-122.135	37.514
BC10	-122.350	37.822
BC20	-122.673	37.792
BG20	-121.811	38.060
BG30	-121.806	38.021
CB030W	-122.274	37.747
CB031W	-122.424	37.915
CB032W	-122.349	37.682
LSB044W	-122.092	37.492
LSB045W	-122.099	37.493
LSB046W	-122.073	37.478
LSB047W	-122.114	37.496
LSB048W	-122.088	37.489
SB058W	-122.219	37.567
SB059W	-122.325	37.614
SB060W	-122.219	37.619
SPB030W	-122.313	38.028
SPB031W	-122.445	38.047
SPB032W	-122.357	38.046
SU035W	-122.096	38.076
SU036W	-122.027	38.096
SU037W	-122.070	38.074



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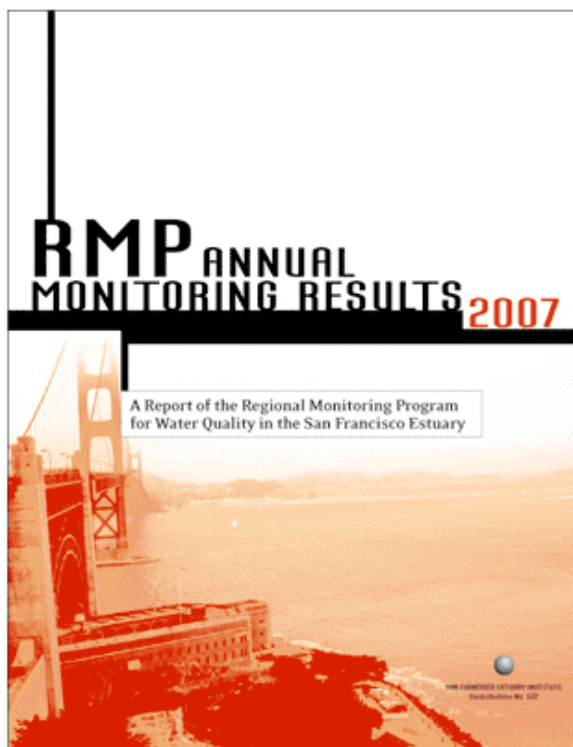
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## RMP Annual Monitoring Results

The San Francisco Estuary Institute has been collecting water, sediment and tissue samples from the San Francisco Bay and tributaries since 1993. These samples are analyzed for ancillary parameters, trace metals and trace organics. Each year a summary of the year's sampling events is published in the Regional Monitoring Program's Annual Monitoring Results. The results and associated graphics can be accessed using the [Web Query Tool](#).

### Current Report

#### 2007 Annual Monitoring Results



Full Report ([3 MB PDF](#))

### Past Reports

[2006 AMR](#)

[2004 to 2005 AMR](#)

[2003 AMR](#)

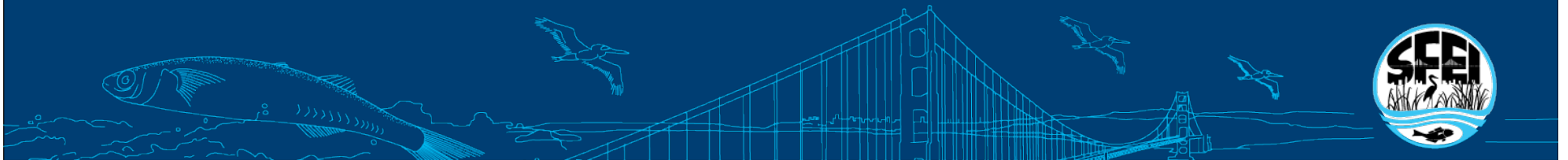
### Pulse of the Estuary



[2008 Pulse of the Estuary](#)

# 2010 Goals

- Report data within one year

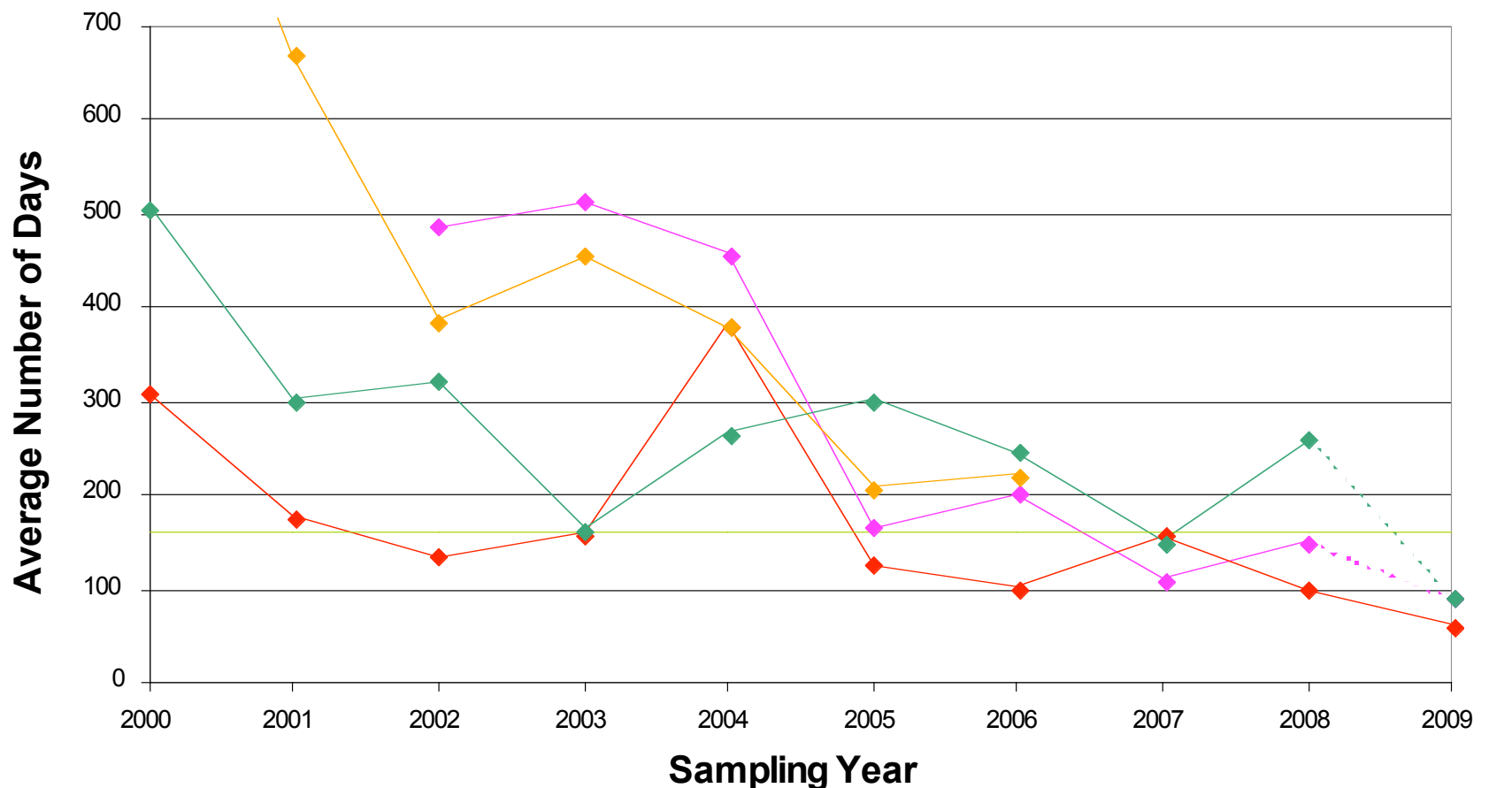




# Timeliness of Data: Water

## Water Data from RMP Contract Labs

(average number of days data submitted after sample collection)

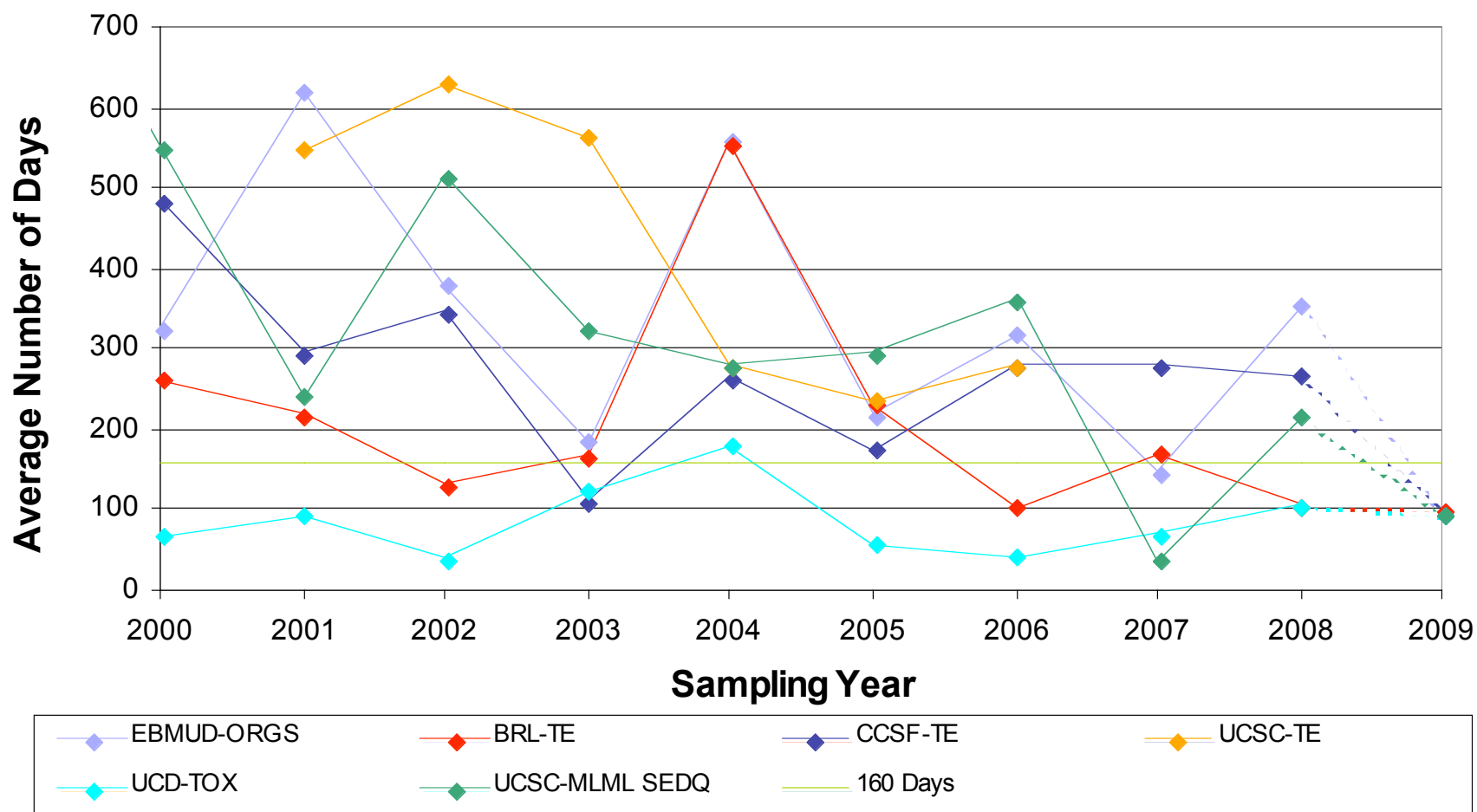


◆ AXYS-ORGS    ◆ BRL-TE    ◆ UCSC-TE    ◆ UCSC/EBMUD-WQ    — 160 Days

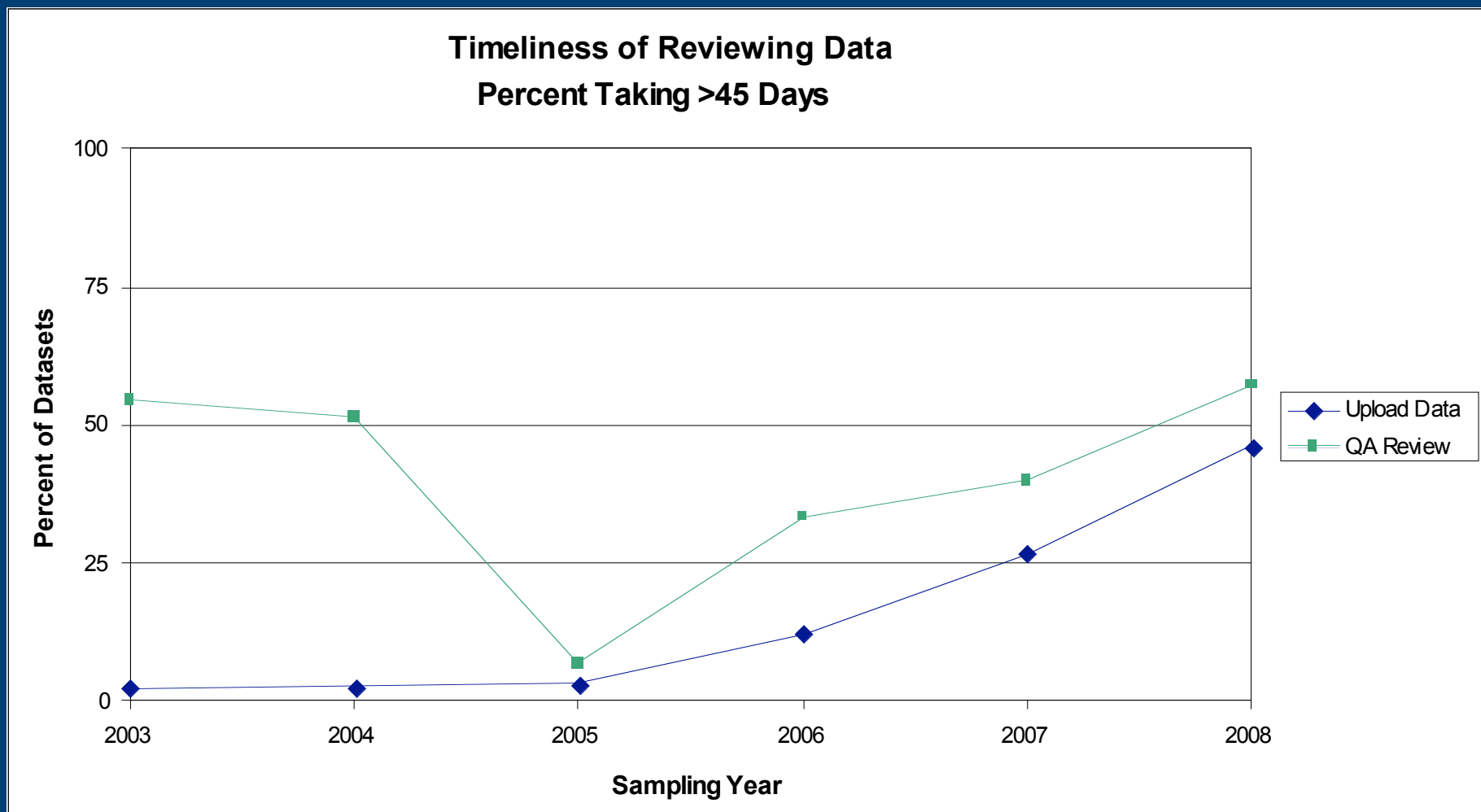
# Timeliness of Data: Sediment

## Sediment Data from RMP Contract Labs

(average number of days data submitted after sample collection)



# Timeliness of Data: Uploading & QA Review



# 2010 Goals

- Report data within one year
- Upload data via web-based submittal tool



# 2010 Goals

- Report data within one year
- Upload data via web-based submittal tool
- Enhancements to web query tool

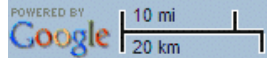


Search Parameters:

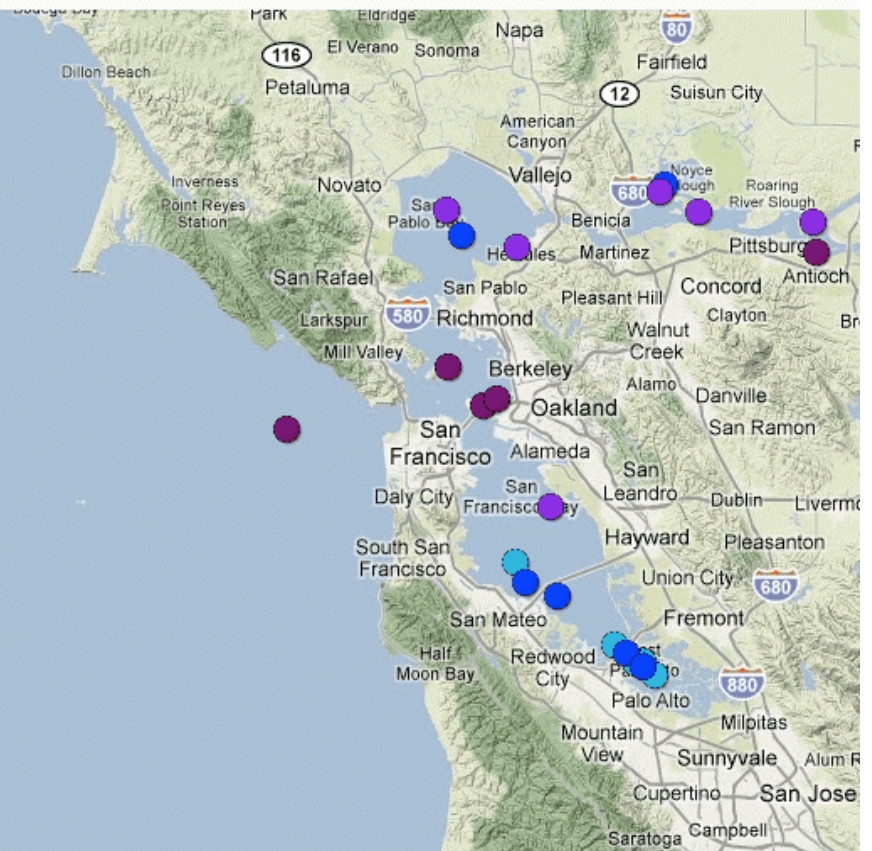
Test Material : Water  
Program/Project : Regional Monitoring Program  
Start Year : 2008  
End Year : 2008  
Matrix : Total  
Parameter Type : TE  
Parameter : Cu

Cu (ug/L)

- ▲ Null / Not Reported
- 0.59 - 2.7025
- 2.7025 - 5.425
- 5.425 - 6.3025
- 6.3025 - 8.78

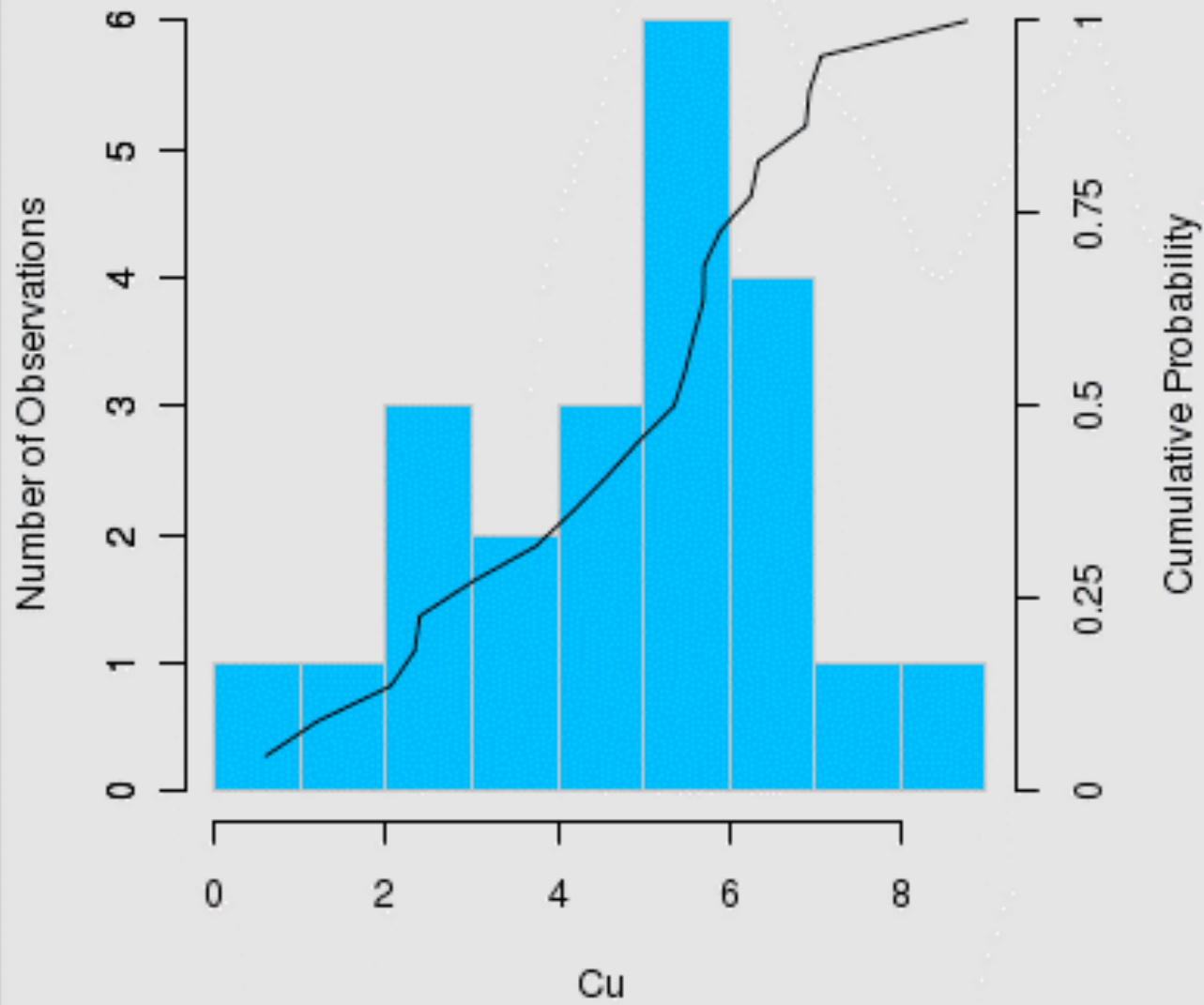


[View sampling station maps](#)



▲ In 2008, the RMP switched water trace metals labs from UCSC-DET to BR.

## Distribution of Results



# 2010 Goals

- Report data within one year
- Upload data via web-based submittal tool
- Enhancements to web query tools
- **Continue coordination as Regional Data Center**





# Transforming Data into Information

