



# **Overview of the Statewide Sanitary Sewer Order**

**(GWDR # 2006-0003-DWQ)**

**Jim Fischer, P.E.**

**Water Resource Control Engineer**

**Division of Water Quality**

**State Water Resources Control Board**

# Presentation Overview

1. Background on Development and Adoption of Statewide SSO GWDR
2. Key Requirements
3. Program Status
4. Outreach and Training
5. Current Challenges

# Background

The screenshot shows the website for the California Environmental Protection Agency (Cal/EPA) State Water Resources Control Board. The page is titled "Sanitary Sewer Overflow Program" and is part of the "Water Issues" section. The navigation menu includes "Home", "About Us", "Public Notices", "Board Info", "Board Decisions", "Water Issues", "Publications/Forms", and "Press Room". The "Water Issues" menu item is highlighted in green. Below the navigation menu, there are links for "Programs", "Available Documents", and "Hot Topics". The page features a header for Governor Schwarzenegger with a "Visit his Website" link. The main content area includes a definition of a sanitary sewer overflow (SSO), a list of contents for the web page, and a section for "GENERAL ORDER INFORMATION" which provides details on statewide general WDRs for sanitary sewer systems, revised monitoring and reporting programs, and a fact sheet.

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## Sanitary Sewer Overflow Program

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- [Contact](#)

### GENERAL ORDER INFORMATION

To provide a consistent, statewide regulatory approach to address SSOs, the State Water Resources Control Board (SWRCB) has issued Discharge Requirements (WDRs) for Sanitary Sewer Systems, Water Quality Order No. 2006-0003, which requires public agencies that own or operate sanitary sewer systems to develop and implement sewer system management plans (SSMPs) and maintain an SSO database. The Sanitary Sewer Order and its supporting documents can be viewed through the following links:

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- [Fact Sheet](#) (WQO No. 2006-0003)

# Historical Info

- 2004 - State Board passed Resolution committing development of regulatory objective to reduce number/volumes of SSOs with proper operation and maintenance of sewage collection systems.
- **General Waste Discharge Requirements (GWDR) adopted May ,2 2006 to address SSOs in consistent/uniform in CA**
- Includes concepts developed for EPA's Capacity, Management, Operations and Maintenance Program (CMOM)
- First comprehensive regulatory program in the nation to address both combined/sanitary sewer systems

# Implementation Milestones

5/2006	6/2006	9/2006	9/2007	10/2007	5/2008	5/2009
Statewide Sanitary Sewer Order Adopted by SWRCB	Notification of mandatory enrollment sent to potential Enrollees	SSO reporting training through CWEA begins	Electronic SSO Reporting Required (statewide)	"Failure to Submit" enrollment application letter sent to remaining potential Enrollees	Deadline for Enrollees to complete the SSMP Development Plan, Schedule, Goal and Organization elements	SSO General WDR Program Review scheduled to begin

Table 2 – Key Statewide Sanitary Sewer Order Implementation Milestones

# Key Requirements

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# Key Requirements

- **Applicability:** Requires any publicly-owned agency with a collection system (sewer pipes) greater than one mile in length and connected to publicly-owned treatment facility (regardless of treatment technology); enrollee must “take ALL FEASIBLE STEPS to contain/mitigate impacts of all SSOs”
- **Must enroll each collection system individually**
- **Example of sanitary sewer system agencies (Enrollees)**
  - facilities owned or operated by local city or county governments
  - special districts
  - state or federal agencies

# Key Requirements

1. Enrollment and ongoing establishment of Legally Responsible Official (LRO)
2. Collection System Questionnaire (within 30 days of enrollment) and updated every 12 months
2. Conduct all SSO electronic reporting or monthly in CIWQS SSO MODULE and “No-Spill” Certification” if no SSOs for each particular calendar month
3. Maintain compliance with SSO MRP (2/20/2008 version)
4. Develop and Implement a Sewer System Management Plan (SSMP)
  - Ensures proper operation and maintenance
  - Reported SSO data ensures efficacy of Enrollees SSMP

# Reporting Schedule (phased-in)

- Enrollees required to begin reporting SSOs according to the following schedule:
  - Regions 4, 8, 9      January 2, 2007
  - Regions 1, 2, 3      May 2, 2007
  - Regions 5, 6, 7      September 2, 2007

This was contingent on MOA by July 1, 2006 between CWEA/CASA and State Water Board regarding enrollee training class. Otherwise, November 2006 for all Regions.

# NOI and Enrollments

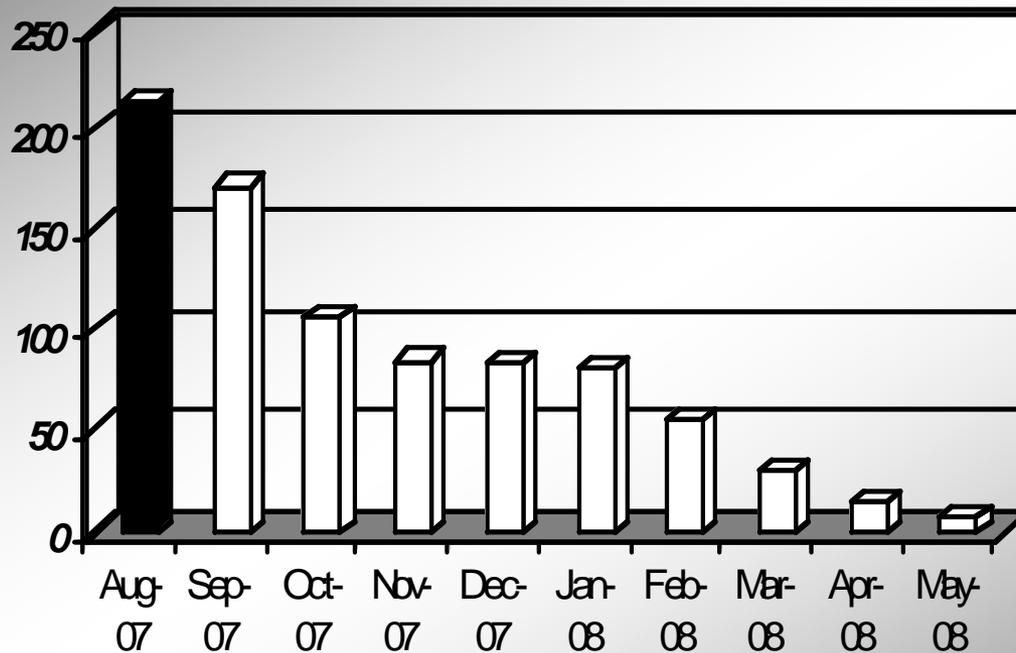
- Notice of Intent (NOI)
  - Initially mailed out to “potential enrollees” on June 16, 2006
- Application for Coverage was required by all applicable collection systems by November 2, 2006
- 1,086 Collection Systems Presently Enrolled Statewide
  - Represents approximately 800 local agencies
  - Notice of Non-Applicability filed by several dozen and funds returned (ongoing)

# NOI and Enrollments

- State Board Staff (Primary: DWQ/WDR Unit)
- Regional Boards (Secondary: perform follow-up only on “as-needed” basis)
  - Combined efforts successfully obtained NOI responses from 98% of all known “potential enrollees”
    - 8 outstanding agencies must either enroll or be exempted if warranted

# Non-Responsive Agency Progress

"Non-Responsive" Agencies



□ "Non-Responsive" Agencies	215	173	108	86	84	82	57	31	16	8

# Enrollment Progress

June 2006

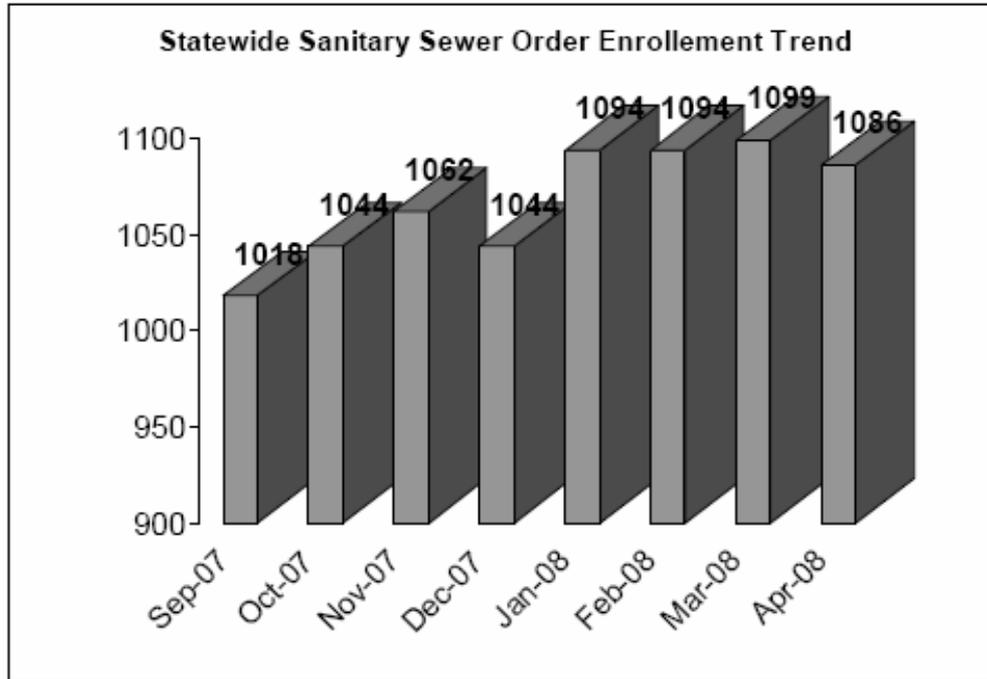


Figure 2 –Enrollment trend coverage under the Statewide Sanitary Sewer Order

# MRP Requirements (2008-0002-EXEC)

STATE WATER RESOURCES CONTROL BOARD  
MONITORING AND REPORTING PROGRAM NO. 2006-0003-DWQ  
(AS REVISED BY ORDER NO. WQ 2008-0002-EXEC)

STATEWIDE GENERAL WASTE DISCHARGE REQUIREMENTS  
FOR  
SANITARY SEWER SYSTEMS

This Monitoring and Reporting Program (MRP) establishes monitoring, record keeping, reporting and public notification requirements for Order No. 2006-2003-DWQ, "Statewide General Waste Discharge Requirements for Sanitary Sewer Systems." Revisions to this MRP may be made at any time by the Executive Director, and may include a reduction or increase in the monitoring and reporting.

**NOTIFICATION**

Although State and Regional Water Board staff do not have duties as first responders, this Monitoring and Reporting Program is an appropriate mechanism to ensure that the agencies that do have first responder duties are notified in a timely manner in order to protect public health and beneficial uses.

1. For any discharges of sewage that results in a discharge to a drainage channel or a surface water, the Discharger shall, as soon as possible, but not later than two (2) hours after becoming aware of the discharge, notify the State Office of Emergency Services, the local health officer or directors of environmental health with jurisdiction over affected water bodies, and the appropriate Regional Water Quality Control Board.
2. As soon as possible, but no later than twenty-four (24) hours after becoming aware of a discharge to a drainage channel or a surface water, the Discharger shall submit to the appropriate Regional Water Quality Control Board a certification that the State Office of Emergency Services and the local health officer or directors of environmental health with jurisdiction over the affected water bodies have been notified of the discharge.

**A. SANITARY SEWER OVERFLOW REPORTING**

**SSO Categories**

1. Category 1 - All discharges of sewage resulting from a failure in the Enrollee's sanitary sewer system that:
  - A. Equal or exceed 1000 gallons, or
  - B. Result in a discharge to a drainage channel and/or surface water; or
  - C. Discharge to a storm drainpipe that was not fully captured and returned to the sanitary sewer system.

# MRP Requirements (revised 2/20/008)

## NOTIFICATION REQUIREMENTS (ANY reaching drain chan. / sfc water)

- Category 1 SSO: 2hr to notify OES and local health; 24hrs to notify RBs of conf. that OES/local health have been notified
- ADDITIONAL regulatory reporting requirements
  - WC13271 (notify OES if “probably will be discharged to surface water and greater than 1,000 gallons”)
  - H&SC 5410 (report to local health if sewage discharge is “in or on” any waters of the state”)
- SEPARATE FROM REPORTING PROCEDURES
- Category 1 SSO: 3 days to “submit draft” / 15 days to “Certify”
- Category 2 SSO: 30 days after end of calendar month

### Category 1 SSO:

- 1) Equal or exceed 1,000 gallons; or
- 2) Result in discharge to drainage channel and/or surface water; or
- 3) Discharge to storm drain pipe NOT fully captured and returned to sewer

Category 2 SSO: any other SSO not meeting Category 1 conditions

# SSMP Requirements

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# SSMP Requirements

- i. Plan and Schedule (requires local gov. bd. ok)
- ii. Organization
- iii. Legal Authority
- iv. Operation and Maintenance
- v. Design and Performance
- vi. Overflow Emergency Response Procedures
- vii. Fats, Oils and Grease (FOG)
- viii. Systems Evaluation and Capacity Assurance
- ix. Monitoring, Measurement and Program Mods.
- x. SSMP Audits
- xi. Communication Program
- xii. Final Certification (requires local gov. bd. ok)

# SSMP Requirements

- Enrollee self approves SSMP and certifies (CIWQS online) each phase when completed
  - First phase completed by August 2007
  - All SSMPs will be fully implemented by August 2010\*
  - Must be updated every 5 years and re-cert by governing board if significant changes
  - Must do self audits every 2 years and have copies on file of results (explain effectiveness and address deficiencies)
  - Must communicate with public on regular basis (element XI)
- Regional Boards review SSMPs upon request (approval not required)

# SSMP Compliance Schedule

SEWER SYSTEM MANAGEMENT PLAN (SSMP) TIME SCHEDULE				
TASK and Associated WDR Section	Completion Date			
	Population > 100,000	Population Between 100,000 and 10,000	Population Between 10,000 and 2,500	Population < 2,500
<b>SSMP Development Plan and Schedule</b> <i>No Specific Section</i>	August 2, 2007	November 2, 2007	February 2, 2008	May 2, 2008
<b>Goal</b> <i>Section D 13 (i)</i>	November 2, 2007	November 2, 2007	May 2, 2008	May 2, 2008
<b>Organization</b> <i>Section D 13 (ii)</i>				
<b>Legal Authority</b> <i>Section D 13 (iii)</i>				
<b>Operation and Maintenance Program</b> <i>Section D 13 (iv)</i>	November 2, 2008	May 2, 2009	November 2, 2009	February 2, 2010
<b>Overflow Emergency Response Program</b> <i>Section D 13 (vi)</i>				
<b>FOG Control Program</b> <i>Section D 13 (iiv)</i>				
<b>Design and Performance Provisions</b> <i>Section D 13 (v)</i>	May 2, 2009	August 2, 2009	May 2, 2010	August 2, 2010
<b>System Evaluation and Capacity Assurance Plan</b> <i>Section D 13 (viii)</i>				
<b>Monitoring and Program Modifications</b> <i>Section D 13 (ix)</i>				
<b>Program Audits</b> <i>Section D 13 (x)</i>				
<b>Communication Program</b> <i>Section D 13 (xi)</i>				
<b>Final SSMP Implementation</b>				

# Program Status

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# SSO GWDR Reports Statewide

Table 3 below provides a summary of all statewide SSO and private lateral sewage discharge data reported by participating Enrollees since start-up, which began on January 1, 2007.

	Number of SSO locations	Total Volume of SSOs (gal)	Total Volume Recovered (gal)	Total Volume Reached Surface Water (gal)	Percent Recovered	Percent Reached Surface Water	Total Miles of Pressure Sewer	Total Miles of Gravity Sewer	Total miles of Laterals Enrollee Responsible for	# of SSO locations per 100 miles of Sewer	Volume Reaching Surface Water per 100 miles of Sewer (gal/100 mi)
<b>SSO</b>	5453	31,001,728	10,784,696	24,571,666	35	79	3,270	90,478	5,650	5.5	26,720

	Number of SSO Locations	Total Volume of SSOs (gal)	Total Volume Recovered (gal)	Total Volume Reached Surface Water (gal)	Percent Recovered	Percent Reached Surface Water	Total Miles of Private Laterals	# SSO locations per 100 miles of Private Laterals	Volume Reaching Surface Water per 100 miles of Private Laterals (gal/100 mi)
<b>Private Laterals</b>	804	683,119	223,236	357,590	33	52	4,353,289	0.02	8.2

Table 3 – Overall Statewide SSO and Private Lateral Sewage Discharge Reports (1/12/2007 to 5/6/2008)

Figure 3 below represents an analysis of the number of reports relative to volume of sewage that reached surface waters of the state. When considering the threat posed by a sewage discharge, an important factor for consideration is whether or not a surface water was impacted. The number of spills less than 1,000 gallons (1076) divided into the total number of reports (1513) shows that about 71 percent of the reports submitted involved less than 1,000 gallons of sewage reaching surface water.

# Volume Reaching Surface Water

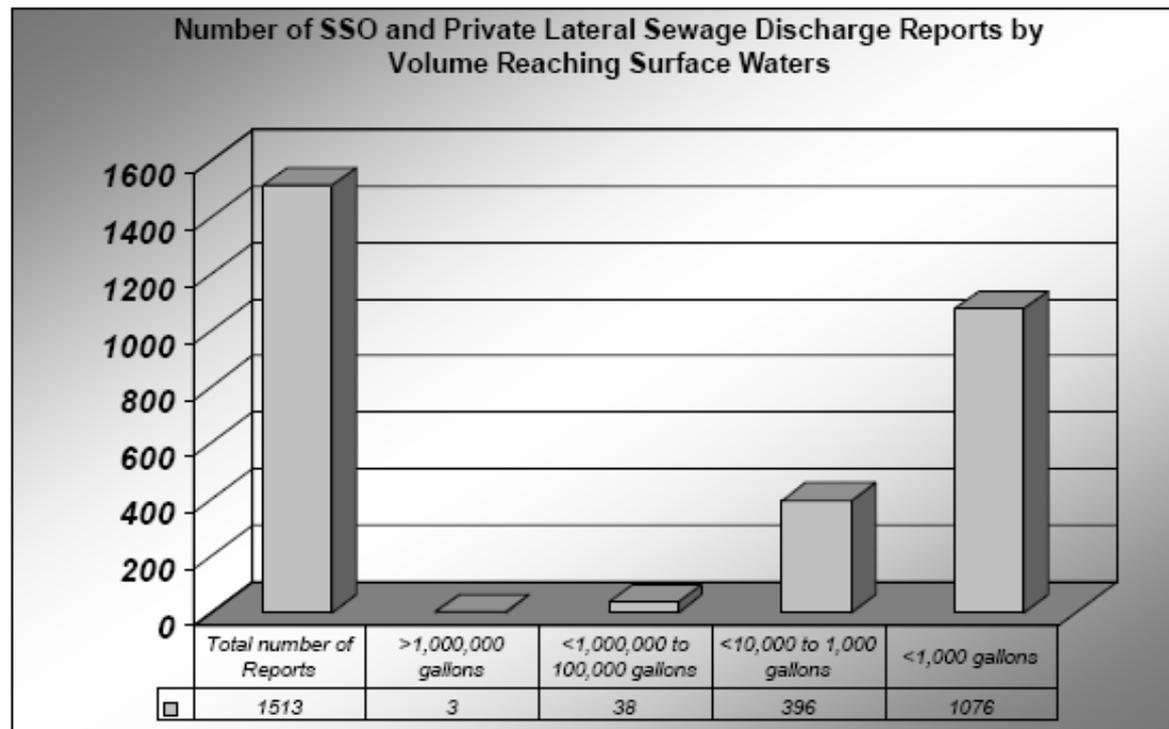


Figure 3 – Number of Reports by Volume Reaching Surface Waters

# Status of Reporting Compliance

## Statewide General WDR for Sanitary Sewer Systems

### REPORTING COMPLIANCE REPORT - MAY 2008

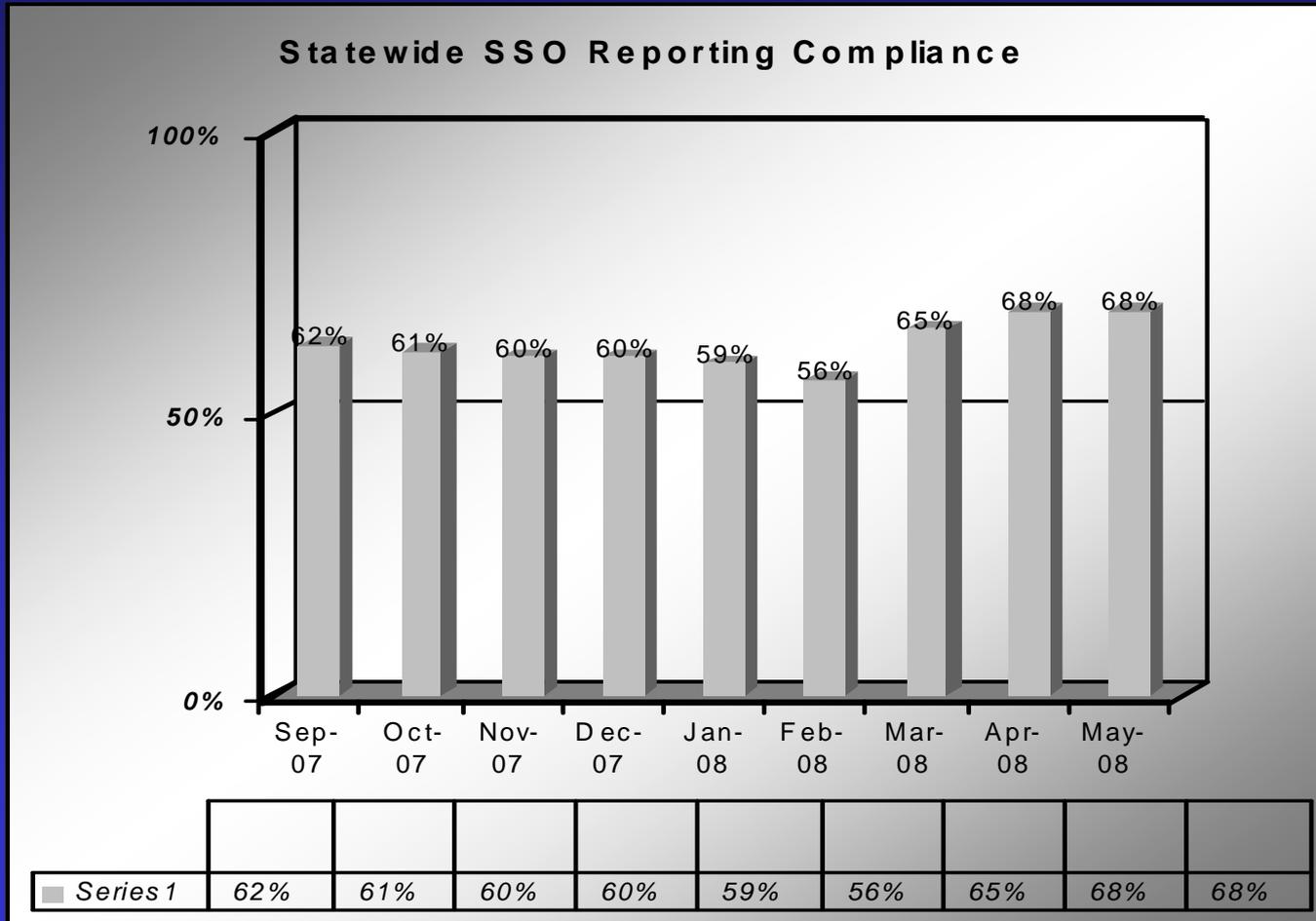
Pursuant to the Board's request at the April 15 Board meeting, the following is an update on the status of implementation and compliance with the Statewide General WDR for Sanitary Sewer Systems. The report describes the level of compliance with the reporting requirements contained in Statewide General Waste Discharge Requirements (WDR) – WQO No. 2006-0003-DWQ (Statewide Sanitary Sewer Order). Initially, background information on sanitary sewer overflows (SSOs) and the development of the Statewide Sanitary Sewer Order will be discussed. This report also shows past and present Statewide Sanitary Sewer Order implementation activities. Compliance with the Statewide Sanitary Sewer Order's reporting requirements will then be discussed, including reporting statistics collected to date. Finally, information on future plans and activities to achieve full Statewide Sanitary Sewer Order compliance will be presented.

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#### BACKGROUND

A sanitary sewer overflow (SSO) is any overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system. A sanitary sewer system is any system of pipes, pump stations, sewer lines, or other conveyances, which is owned or operated by a public entity, used to collect and convey wastewater to a treatment facility. SSOs do not include overflows from blockages or other problems within a privately owned lateral. SSOs often contain high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oil, and grease. SSOs pollute surface and ground waters, threaten public health, adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters. Typical consequences of SSOs include the closure of beaches and other recreational areas, inundated properties, and polluted rivers and streams.

# Reporting Compliance Progress



# Questionnaire Compliance

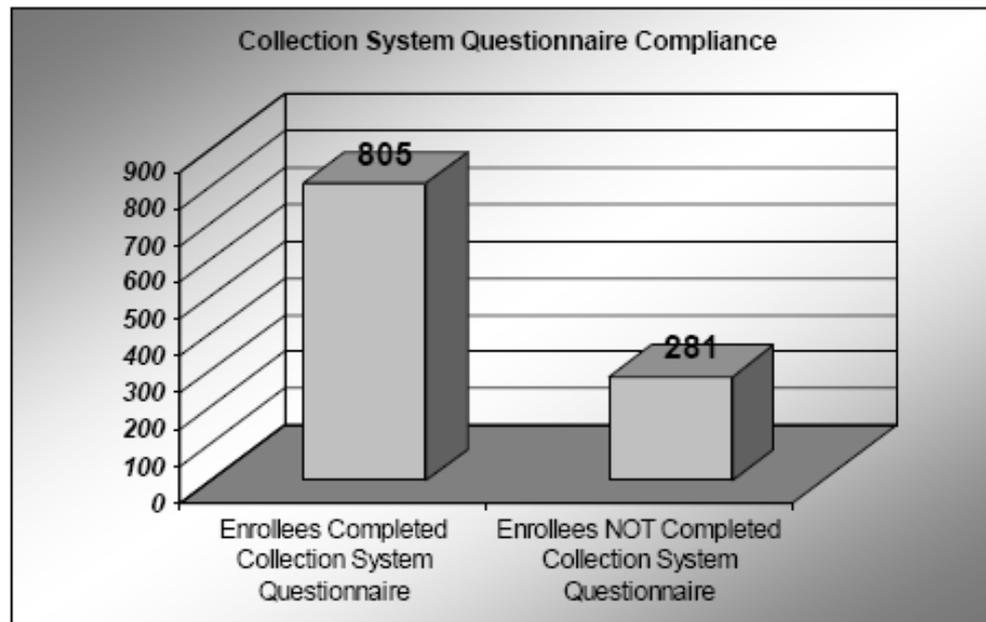


Figure 6 – Collection System Questionnaire Compliance

# Outreach and Training

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# Outreach

- Blanket and Direct emails (via CIWQS)
  - Non-Compliance with Reporting
  - Other General Program Information
- Website: Individual Enrollee Data to be Published
- Extensive Coordination with CWEA / CVCWA / BACWA and other trade organizations

# Outreach

## SSO Active CIWQS External User Group

- Represents 30+ from enrollee community (large and small systems)
- Extensive tracking, technical review and testing
- Review and comment of significant CIWQS changes prior to public release
- Quarterly meetings (held via WEBEX)
- Regional Board encouraged to participate

# Training Resources for Enrollees

- CWEA has MOA with State Water Board
  - Extensive Statewide SSO Program Training and Outreach materials and classes
- CVCWA, CRWA and other enrollee representatives also conducting extensive training on SSO Statewide General Order throughout California
- Regional Boards encouraged to attend all of above
- CWEA Training Calendar:  
[www.cwea.org/calendar.shtml](http://www.cwea.org/calendar.shtml)

# Discharger's Workbook

- Available on CIWQS (SSO) website



## **Introduction:**

### **Registering for CIWQS**

Welcome to the Sanitary Sewer Overflow (SSO) Discharger Work Book. This guide is designed to help you through the SSO database. The SSO database is the newest module of the California Integrated Water Quality System (CIWQS). However, before you are allowed to use CIWQS, you must first register and receive a CIWQS username and password. At this time, registration for both data submitters and legally responsible officials (see discussion below for an explanation of these terms) is handled by paper. The data submitter and legally responsible official registration forms can be found on the CIWQS Help Center webpage at <http://www.waterboards.ca.gov/ciwqs/chc.html>. The instructions for submitting the completed forms can be found at the bottom of each form.

### **SSO Database Overview**

This section describes the general workflow for the sanitary sewer overflow (SSO) database, which is utilized by an agency (enrollee) that has applied for coverage under Statewide General Waste Discharge Requirements for Sanitary Sewer Systems - Water Quality Order No. 2006-0003-DWQ (Sanitary Sewer Order) to comply with the SSO reporting requirements.

An enrollee must report two types of information into the SSO database: sanitary sewer system/agency characteristics – collection system questionnaire and spill details – SSO report. The collection system questionnaire must be initially completed before any SSO reports can be submitted. Additionally, the collection system questionnaire must be updated annually. All SSOs (aka spills) from an enrollee's sanitary sewer system must be reported to the SSO database. The

# CWEA Training Success

- CWEA reporting class increased the statewide compliance by 20%

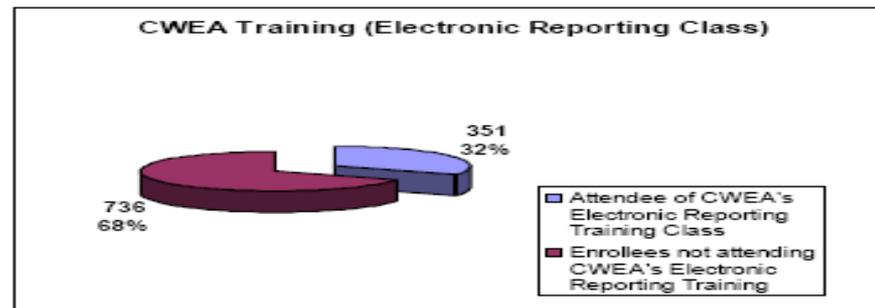


Figure 4 –CWEA Training (Electronic Reporting Class)

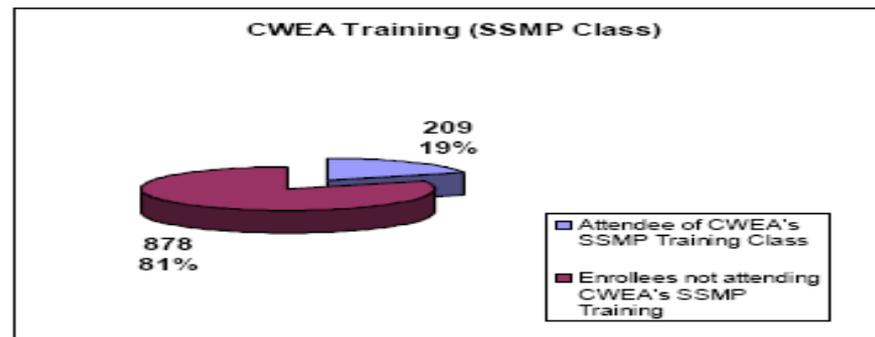


Figure 5 –CWEA Training (SSMP Training Class)

# Current Challenges

The screenshot shows the website for the California Environmental Protection Agency State Water Resources Control Board. The header includes the logo and navigation menu with items like Home, About Us, Public Notices, Board Info, Board Decisions, Water Issues, Publications/Forms, and Press Room. The main content area is titled "Sanitary Sewer Overflow Program" and includes a breadcrumb trail: Home → Water Issues → Programs → Sanitary Sewer Overflow. A sidebar on the left features a link to Governor Schwarzenegger's website and a list of resources such as Cal/EPA, State & Regional Water Boards, Laws/Regulations, Plans/Policies, Programs, and Decisions Pending and Opportunities for Public Participation. The main text defines a sanitary sewer overflow (SSO) and provides a list of contents for the web page, including General Order Information, On-Line SSO Database Access and Use, Sewer System Management Plan Development / Implementation, Sanitary Sewer Order Training, Historical Information, and Contact. A section titled "GENERAL ORDER INFORMATION" explains the regulatory approach to address SSOs and lists specific orders like Statewide General WDRs for Sanitary Sewer Systems, WQO No. 2006-0003, and Revised Monitoring and Reporting Program (WQ 2008-0002-EXEC).

**CA.GOV** CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
STATE WATER RESOURCES CONTROL BOARD

Home | About Us | Public Notices | Board Info | Board Decisions | **Water Issues** | Publications/Forms | Press Room

Programs | Available Documents | Hot Topics |

GOVERNOR SCHWARZENEGGER  
Visit his Website

Home → Water Issues → Programs → Sanitary Sewer Overflow

## Sanitary Sewer Overflow Program

A sanitary sewer overflow (SSO) is any overflow, spill, release, discharge or diversion of untreated wastewater that contains high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, and other pollutants that adversely affect aquatic life, and impair the recreational use and aesthetic enjoyment of surface waters, and other recreational areas, inundated properties, and polluted rivers and streams.

*Contents of this Web Page:*

- [General Order Information](#)
- [On-Line SSO Database Access and Use](#)
- [Sewer System Management Plan Development / Implementation](#)
- [Sanitary Sewer Order Training](#)
- [Historical Information](#)
- [Contact](#)

### GENERAL ORDER INFORMATION

To provide a consistent, statewide regulatory approach to address SSOs, the State Water Resources Control Board has adopted Discharge Requirements (WDRs) for Sanitary Sewer Systems, Water Quality Order No. 2006-0003, which requires public agencies that own or operate sanitary sewer systems to develop and implement sewer system management plans (SSMPs) and maintain an SSO database. The Sanitary Sewer Order and its supporting documents can be viewed through the following links:

- [Statewide General WDRs for Sanitary Sewer Systems, WQO No. 2006-0003](#)
- Revised Monitoring and Reporting Program (WQ 2008-0002-EXEC)
  - [Revised MRP WQ 2008-0002-Exec](#)
  - [Revision Transmitted Letter](#)
- [Fact Sheet](#) (WQO No. 2006-0003)

# Current Challenges

- MRP issues
  - Q&A promised for interpretation (still under development)
  - Procedures for how dischargers will notify RBs
- Need to refine CIWQS notification to RBs via CIWQS email (Submit Draft thru Certified)
- Compliance and enforcement: enrollment, reporting, meeting GWDR requirements, data quality/accuracy, SSO events, etc

# Current Challenges

- SSO Program Review
  - Begins May 2009
  - Consideration of “re-opening” GWDR
  - Includes extensive public outreach including workshops both in northern and southern California
  - Integrate Regional Board input and encourage them to participate and attend public workshops

# Beta (draft) SSO Mapping Tool

- Project Manager:
  - Jeff Kapellas, State Board GIS Unit
- Developed for supporting CIWQS SSO Program Information
- Serves as SSO Data Q/A and Q/C tool
- Dischargers will be given extensive opportunity to review and correct their individual report data before public review

# **Regional Water Board Experience with SSO GWDR**

Greg Cash, R5 (Redding)