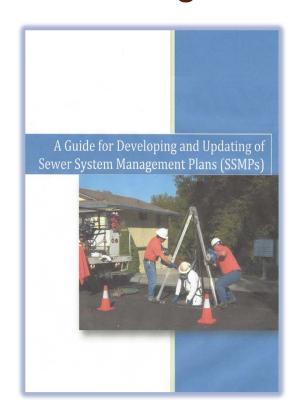


# Guide for the Development and Updating of Sewer System Management Plans

Track I: Infrastructure Management

Sewer Summit 2015 Crowne Plaza Union City, CA October 15, 2015

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## Presentation Agenda

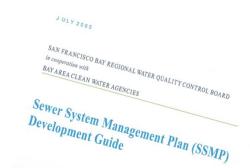
- History/Background of SSMP Guidance
- New Guide Overview
  - Current Drivers
  - Development Team
  - Guide Development
  - Purpose and Uses
  - Frequent Questions
  - Endorsements
- SSO Reduction Program Library
- Review of Element suggestions/considerations
- Questions and Comments

## 2005 SSMP Development Guide

- SFRWQCB required SSMPs in early 2000
- Available July 2005 in Region 2
- Developed by BACWA with the SFRWQCB
- Applied only to Region 2 initially
- Used Statewide after 2006 WDR adoption
- Does not match Element outline in WDR D.13
- No longer appropriate per SWRCB for compliance

## 2005 Development Guide Outline

- I. Goals
- 2. Organization
- 3. OERP
- 4. FOG Control Program
- 5. Legal Authority
- 6. Measures and Activities
- 7. Design and Construction Standards
- 8. Capacity Management
- 9. Monitoring, Measurement and Program Modification
- 10. SSMP Audits





#### Drivers for a New Guide

- 2005 Guidance Region 2 SSMP Outline
- 2005 Guidance prior to the WDR
- Included information not required by WDR
- WDR required 11 Elements not 10 (wdr d13)
- 2013 MRP Revisions made substantive changes
- 5 Year Agency reviews/recertification
- Field inspection expectations and results past five years
- Past Enforcement Actions especially in California
- Past Legal Settlements across the state

## Guide Development Team

- Carolyn Geisler Balazs, Sacramento Sewer
- Marcie Bodeaux, Fairfield Suisun
- Ned Borglin, Lawrence Laboratory
- Dindo Carrillo, Orange County SD
- Paul H. Causey, Causey Consulting
- Jay Cha, Sacramento Sewer
- Javad Ghaffari, City of Palo Alto
- Douglas C. Humphrey, Humphrey Cons
- Dante Marchetti, Central San
- Juan Martinez, Coachella Valley WD
- David Meier, Sacramento Sewer
- Terrie Mitchell, Sacramento Sewer

- Andy Morrison, Union Sanitary District
- Mary Phelps, City of Richmond
- Jerry Rodriquez, Coachella Valley WD
- Eddie Salinas, City of San Diego
- Steve Sauter, Central San
- Paul Seitz, Central San
- Dan Stevenson, Sunnyvale/Emeryville
- Jennifer Swinney, Sacramento Sewer
- Warren Tellefson, CVCWA
- Melissa Thorme, Downey Brand LLP
- Victor Lopez, SWRCB

## Guide Development Process

- LROs notified 2005 Guide not acceptable
- Follows WDR D.13 Element Outline and MRP updates
- Confirmed by the SWRCB SSO Office
- Intended as a "Guide" for all agencies
- Suggests information of agency operations
- Anything added is expected by regulators
- Regulators will review SSMP prior to inspection may not need field inspection
- http://www.waterboards.ca.gov/water\_issues/programs/sso/ docs/ssmp\_guidance\_091015.pdf

## Purpose of the Guidance

- Assist initial SSMP preparation
  - Required inclusions
  - Suggested information
  - Inspection expectations
  - MRP required changes
- Assist with SSMP effectiveness reviews and revisions
- Provide audit considerations and suggestions
- Includes sample forms, graphs and guides
- Not a "One size fits all document or checklist"
- Includes references and answers questions

## Guide Section (Element) Outlines

- WDR Requirements
- Things to Think About
- Helpful Hints
- MRP Requirements
- Issues from Inspections/Enforcement
- References
- Attachments/Samples



## Frequently Asked Questions

- General questions and answers
  - Effectiveness
  - Update schedules 2 and 5 year from adoption
  - Governing Board Approvals
  - LRO requirements/certifications
  - Handling of reference materials
  - Audit scheduling and requirements
  - Recertification requirements

## Guide Endorsers







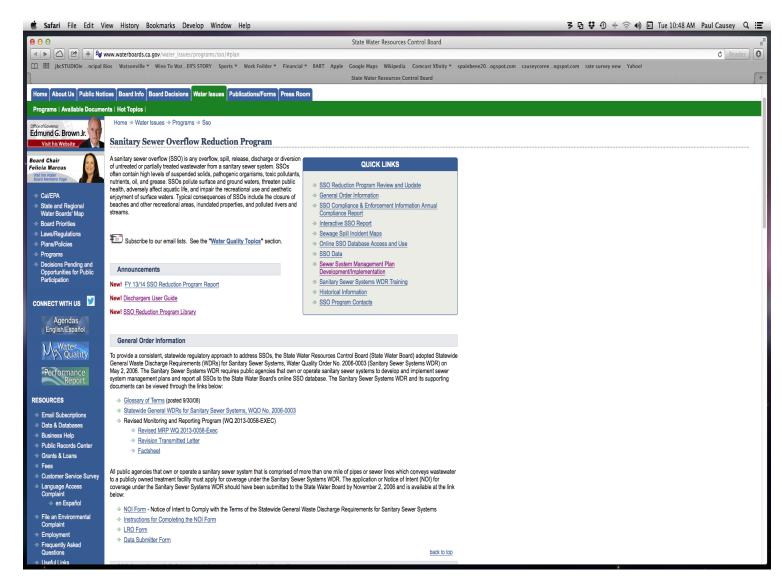






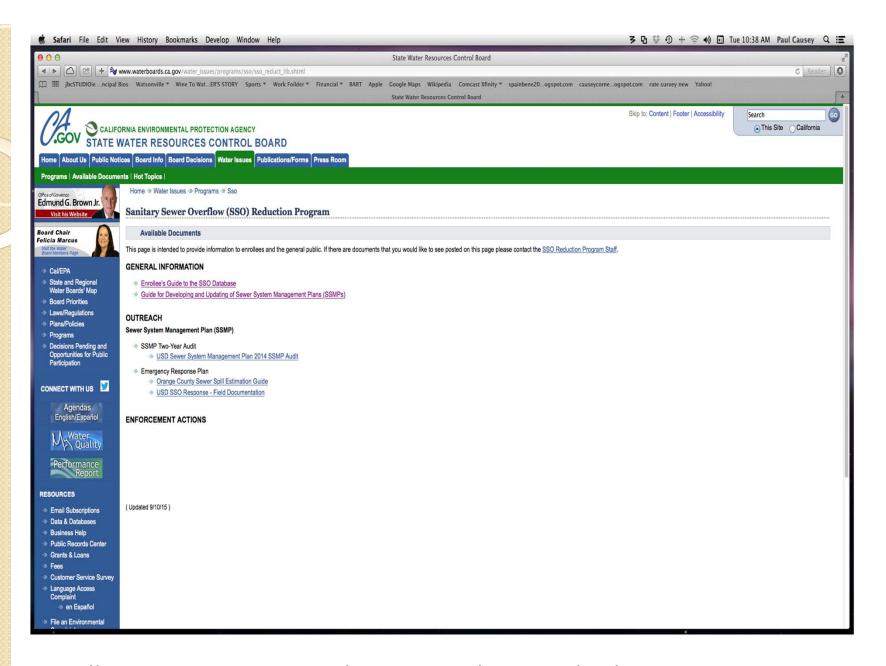


- Intended to include:
  - Regulations
  - Reference documents
  - Sample collection system documents/reports
  - Enforcement actions
  - Settlement documents
  - Sample collection system forms
  - SWRCB Presentations
  - Technical Reports
- http://www.waterboards.ca.gov/water\_issues/programs/sso/docs/ssm p\_guidance\_091015.pdf
- Agencies can submit documents to SSO Office



**Browser Address: SWRCB SSO** 

http://www.waterboards.ca.gov/water\_issues/programs/sso/#plan



http://www.waterboards.ca.gov/water\_issues/programs/sso/sso\_reduct\_lib.shtml

## SUGGESTIONS AND COMMENTS ON SSMP ELEMENTS FROM GUIDE

## Regulatory Requirements

- Driver original Governing Board adoption for audit/recertification
- Update when "significant financial changes"
- Not just every five years
- Approved SSMP on website or in CIWQS
- All reports LRO certified
- Written audit reports effectiveness
- Watch for regulatory activity
- Follow new WDR not 2005 Guide Format

## General Suggestions

- Legal Disclaimer not legal assurances
- Review by agency legal counsel
- SSMP a Living Document
- Introduction or Executive Summary
- Use of References be carful, hyperlink
- Always review and update with SSMP
- Only include what you are or will do
- Review codes/ordinances regularly

### Introduction/Executive Summary

- Description of collection system assets
- Detailed pipe information gravity/pressure
- Lateral responsibilities
- Satellite agencies
- Service area map and statistics
- Information same as CIWQS Questionnaire
- Any unusual asset responsibilities

#### Element I - Goals

- Agency specific
- Reflect operating philosophy
- Broad based
- Reviewed regularly
- Realistic
- Obtainable
- Effective
- Include senior management input

## Element 2 - Organization

- Add organization chart
- Add contractors/sister agencies
- Adequate LROs for 24/7/365 coverage
- No names just classifications in chart
- Add table of Element responsibilities
- Maintain CIWQS listing (30 days)

## Element 3 - Legal

- Consider table format rather than narrative
- Provide ALL code references e.g. building
- Lateral definitions and responsibilities clear
- Add agreements with other agencies
- Legally enforceable settlements?
- Satellite agency agreements

## Element 4 – O&M Program

- Describe mapping update process/systems
- Overview of O&M program
- Describe all maintenance frequencies
- Small and large diameter line cleaning, laterals
- CCTV, roots, vectors, etc.
- Pump station procedures
- Condition assessment procedures
- Include both short and long term R&R
- Have procedures to support
- Describe real training SSMP, OERP specific

## Element 5 - Design

- Are standards formally adopted
- Are they current
- Regularly reviewed
- If references, how are they updated
- Are they reviewed with each audit
- Technology advances handled

#### Element 6 - OERP

- SSMP Followed in the field
- Adopted procedures to support SSMP
- All communications recorded
- Regular training conducted and documented
- New WQMP and Technical Reports >50K gallons
- Recordkeeping audited
- Records conform with new MRP
- Are events debriefed and root cause evaluated
- Is CWIQS data correct and certified timely
- Are field exercises conducted volume estimation

## Element 7 - Fog

- Do you need a program some don't
- FSE mapping
- Regular documented FSE inspections
- Proper training for inspectors
- Coordination with Building Departments
- Hot spot mapping utilized
- How are FSEs determined
- Any agency procedures
- Legal authority for enforcement available

## Element 8 — Capacity Assurance

- How is capacity evaluated model, other
- How are improvements prioritized
- Evaluated during wet weather conditions
- Agency design criteria established
- Evaluation of both short and long term needs
- Coordinated with Element 5
- Improvements scheduled

#### Element 9 – Program Modification

- Realistic performance measures used
- How do measures relate to effectiveness
- Trends noted/evaluated
- Are historical results evaluated
- Use tables and graphs for easy understanding
- Are there measures for each SSMP Elements
- Are measures fiscal or calendar year based
- Results reported to Governing Board regularly

#### Element 10 - Audit

- Based upon original adoption date
- Who does the audit
- Must evaluate effectiveness of program
- Written document prepared
- Explain anomalies found
- Review and conform all references
- Review all hyperlinks
- Review codes and ordinances
- LRO certifies final audit report
- Filed in SSMP appendix

#### Element II - Communications

- How do you promote your "great" work
- Annual reports to governing board in open session
- Newsletters, brochures, public events
- Counter handouts and information
- Satellite/tributary agency contacts
- Media spokesperson identified
- Regular media promotion of work

### **Conclusions**

- New Guide follows WDR D13 outline
- Developed by actual collection system practitioners
- Strongly endorsed by professional organizations
- Provides suggestions for agency consideration
- Offers evaluations of legal issues up to publication
- Provides examples of forms, etc.
- Lists current references on collection systems ops
- Readily available at SWRCB Library
- New Library to provide additional references
- New library will be as current as agencies make it

## Thanks for Listening

## QUESTIONS AND COMMENTS?

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