

SANITARY SEWER COLLECTION SYSTEMS CLASS

Instructors: Ken Kerri, Gary Batis, Jim Fischer, Mark Bradley, and Greg Cash
Invited Speakers: Rich Cunningham - City of Albany Art O'brien - City of Roseville
Jeff Kapellas (State Board GIS Unit) Greg Quist (Hadronex / Smartcover)

DAY 1 (TUES, November 4, 2008)

OVERVIEW OF THE STATEWIDE SSO PROGRAM AND ESSENTIAL ELEMENTS OF COLLECTION SYSTEM O&M PROGRAMS

8:30-9:00 Overview of 3-day class, Ken

- What is covered in the class
- Why this class will be useful to you for your job and with career advancement
- Introduction of instructors
- Self introduction of class members

9:00-9:45 SWRCB Order and Roles and Responsibilities, Jim

- Importance of collection systems training
- SSO Basic Program requirements and Terminology
- Tips and Recommendations to Check with Field Inspections
- CIWQS SSO Data Statistics

9:45-10:15 Why Collection System Operation and Maintenance? Gary

- Organization Structure/Staffing of a Collection System
- Collection System Administration
- Legal Authority
- Operation and Maintenance Plans (Scheduled Inspections and Condition Assessment)
- System Evaluation and Capacity Assurance Plan

10:15-10:30 BREAK

10:30-11:15 Wastewater Collection Systems, Ken

- Description
- Design
- Inspecting and Testing

11:15-12:00 Pipeline Cleaning and Maintenance Methods, Gary

12:00-1:00 LUNCH

1:00-1:45 Underground Repair and Sewer Renewal (Rehabilitation), Ken

1:45-2:30 Lift Stations, Gary

2:30-2:45 BREAK

2:45-3:30 Safety and Training, including VIDEO, Guardians of Health (Intro video), Ken

3:30-4:15 Equipment and Tools, Gary

4:15-4:30 Preparation for half-day field trip to observe Sacramento County's collection system field crews and office staff in action, Ken

DAY 2 (WED, November 5, 2008)

COLLECTION SYSTEM OPERATON AND MAINTENANCE FIELD TRIP

8:15-12:00 noon (ORANGE COUNTY FIELD CREWS AND OFFICE STAFF)

12:00 NOON-1:00 LUNCH (on your own)

1:00-1:30 Discussion of Field Trip Observations, Ken

ORGANIZATION FOR COLLECTION SYSTEM OPERATION AND MAINTENANCE

1:30-2:15 Administration, Rich

- Collection System Training and Staffing
- Mapping and Uses of Computers
- Establishing and Evaluating a Maintenance Program
- General Performance Indicators
- Resources and Budget Management

2:15-3:00 Operation and Maintenance of Collection Systems, Gary

- Purpose of O&M
- Maintenance Scheduling
- Sewer Cleaning
- Hydrogen Sulfide Monitoring and Control
- FROG Control Program
- Lift Stations
- Sewer System Evaluation
- Standards for Installation, Testing, Rehabilitation and Repairs
- Service Laterals (Outreach to Plumbers and Building Contractors)

3:00-3:15 BREAK

3:15-4:00 Special Elements of an O&M Collection System Program, Rich

- Contingency Equipment and Replacement Inventories
- Identification of Trouble Spots
- Overflow Emergency Response Plan - [Overflow Video \(69MB\)](#)
- Communications and Notifications
- Complaints and Public Relations
- System Evaluation and Capacity Assurance

4:00-4:30 SSMP Audits and Inspections, and SUMMARY, Gary
(with help from Rich and Ken)

DAY 3 (THURS, November 6, 2008)

SSO REGULATORY DISCUSSION, REGIONAL BOARD EXPERIENCES AND ENFORCEMENT OPTIONS

8:15-8:30 [Review of SSO General Order Permit Requirements, Jim](#)

- Recap of Statewide SSO General Permit Requirements and ongoing issues

8:30-9:00 Regional Board Experience with SSOs, Greg

- Field SSO response activities
- CIWQS data website and data experience
- Recommendations and tips for other RB programs

9:00-9:45 Statewide SSO Enforcement Options, Mark

- Background on State/RB discharge programs
- Water Board and local enforcement
- Informal/formal enforcement
- Violations, compliance projects and options
- Other enforcement considerations

9:45-10:00 BREAK

10:00-10:45 [Local Agency Experience with Implementation of SSMP, Art](#)

- City of Roseville's SSMP and SSO Program

10:45-11:15 [Collection System Electronic Monitoring Technology, Greg](#)

- Vendor presentation/demonstration of Hadronex "Smartcover" electronic CS monitoring product

11:15-11:40 Beta SSO GIS Mapping Tool Demonstration, Jeff

- Presentation/Demonstration of the latest CIWQS GIS SSO mapping tool

11:40-11:50 Final Questions, Answers and Wrap-up, Jim

11:50-12:50 OPTIONAL: Discussion about the 2009 SSO General Permit Review (working lunch), Jim

- Discussion about the State Board's 2009 SSO General Permit Review that will take place with possible revisions to the Order; solicit ideas and recommendations from State/Regional Boards