

IEUA SSMP

IEUA Sewer System Management Plan



Inland Empire Utilities Agency

A MUNICIPAL WATER DISTRICT

Final Version

May 2, 2009

Revised Dec 9, 2009

Revised Apr 13, 2010



INLAND EMPIRE UTILITIES AGENCY
6075 Kimball Avenue
Chino, California 91709

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
SSMP Development Plan and Schedule <i>No Specific Section</i>	August 2, 2007	November 2, 2007	February 2, 2008	May 2, 2008
Goal <i>Section D 13 (i)</i>	November 2, 2007	November 2, 2007	May 2, 2008	May 2, 2008
Organization <i>Section D 13 (ii)</i>				
Legal Authority <i>Section D 13 (iii)</i>	November 2, 2008	May 2, 2009	November 2, 2009	February 2, 2010
Operation and Maintenance Program <i>Section D 13 (iv)</i>				
Overflow Emergency Response Program <i>Section D 13 (v)</i>				
FOG Control Program <i>Section D 13 (iiv)</i>				
Design and Performance Provisions <i>Section D 13 (v)</i>	May 2, 2009	August 2, 2009	May 2, 2010	August 2, 2010
System Evaluation and Capacity Assurance Plan <i>Section D 13 (viii)</i>				
Monitoring and Program Modifications <i>Section D 13 (ix)</i>				
Program Audits <i>Section D 13 (x)</i>				
Communication Program <i>Section D 13 (xi)</i>				
Final SSMP Implementation				



Table of Contents

Schedule.....	3
Abbreviations.....	7
Element 1 - Goals.....	9
The goals of IEUA SSMP.....	9
Element 2 - Organization.....	11
Element 3 - Legal Authority.....	22
WDR Requirements Summary.....	22
IEUA Compliance Summary.....	22
History.....	22
Objectives.....	23
Ordinances.....	23
Permits.....	24
NRWS Rate Resolutions.....	24
Amendments.....	25
IEUA Compliance Documents.....	25
Element 4 - Operations & Maintenance Program.....	26
WDR Requirements Summary.....	26
IEUA Compliance Summary.....	26
Collections System Map & Storm Drain System Map.....	26
Preventive Operations & Maintenance.....	28
Rehabilitation & Replacement Program.....	29
Training.....	30
Contingency Equipment & Replacement Inventories.....	32
IEUA Compliance Documents.....	32
Element 5 - Design & Performance Provisions.....	33
WDR Requirements Summary.....	33
IEUA Compliance Summary.....	33
Standards for Installation, Rehabilitation and Repair.....	33
Standards for Inspection and Testing of New, Rehabilitated, and Repaired Facilities.....	33
IEUA Compliance Documents.....	34
Element 6 - Overflow Emergency Response Program.....	35
WDR Requirements Summary.....	35
IEUA Compliance Summary.....	35
Overview of Sewer Overflow Emergency Response Plan.....	36
Purpose and Objectives.....	36
Overflow Response Procedures.....	36
Public Advisory Procedures.....	37
Plan Update.....	37
Public Advisory Procedure.....	39
Plan Update.....	39
IEUA Compliance Documents.....	39



Element 7 - FOG Control Program.....	40
WDR Requirements Summary	40
IEUA Compliance Summary	40
IEUA Compliance Documents	41
Element 8 - System Evaluation and Capacity Assurance Plan	42
WDR Requirements Summary	42
IEUA Compliance Summary	42
Evaluation	42
Design Criteria	43
Capacity Enhancement Measures	43
Schedule	43
IEUA Compliance Documents	44
Element 9 - Monitoring, Measurement and Program Modifications.....	45
WDR Requirements Summary	45
IEUA Compliance Summary	45
IEUA Compliance Documents	46
Element 10 - SSMP Program Audits	47
WDR Requirements Summary	47
IEUA Compliance Summary	47
IEUA Compliance Documents	48
Element 11 - IEUA Communication Program.....	49
WDR Requirements Summary	49
IEUA Compliance Summary	49
Pretreatment Committee	49
IEUA Compliance Documents	50
List of Appendices	51



List of Tables

Table 1 - Agencies to be Notified for Category 1 SSO	16
Table 2 - Agencies to be Notified for Category 2 SSO	18
Table 3 - Other Regulatory Agencies Contact List (If Required).....	19
Table 4 - IEUA Emergency Cell Phone Contact List for SSO.....	20
Table 5 - Member Agencies Emergency Contact List for SSO.....	21
Table 6 - IEUA Collection Network.....	28
Table 7 - IEUA Regional Capital Improvement Plan.....	29
Table 8 - IEUA NRW Capital Improvement Plan.....	30

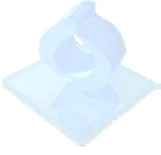
List of Figures

Figure 1 - IEUA Organizational Chart.....	12
Figure 2 - IEUA Operations Division Chain of Command	13
Figure 3 - Chain of Communication for Reporting SSO	14
Figure 4 - SSO Response Flowchart.....	15
Figure 5 - Snapshot of Record Drawing Directory.....	27
Figure 6 - IEUA Electronic Library and Virtual Training.....	31
Figure 7 - Operator Training Modules.....	31
Figure 8 - IEUA SSO Event Reporting Line	38
Figure 9 - IEUA Engineering & Construction Management Webpage.....	48
Figure 10 - IEUA SSMP on the WWW.....	50



Abbreviations

BMP – Best Management Practice
CalEMA – California Emergency Management Agency
CBMWD – Chino Basin Municipal Water District
CCTV – Closed Circuit Television
CDPH – California Department of Public Health
CFR – Code of Federal Regulations
CIP – Capital Improvements Program
CMMS – Computerized Maintenance Management Software
CSDLAC – County Sanitation District of Los Angeles County
DAMP – Drainage Area Management Plan
DVD – Digital Versatile Disk
EOF – End of File
FOG – Fats, Oil and Grease
GIS – Geographic Information System
GPS – Global Positioning System
I/I – Inflow and Infiltration
IEUA – Inland Empire Utilities Agency
MRP – Monitoring and Reporting Program for WDR
NASSCO – National Association of Sewer Service Companies
NIMS – National Incident Management System
NPDES – National Pollutant Discharge Elimination System
NRWS – Non Reclaimable Wastewater System
OCSD – Orange County Sanitation Districts
OES – Office of Emergency Services
OSHA – Occupational Safety and Health Administration
PT&SC (PTSC) – Pretreatment and Source Control
RCA – Regional Contracting Agencies
RSS – Regional Sewer System
RWQCB – Regional Water Quality Control Board
SARI – Santa Ana Regional Interceptor
SAWPA – Santa Ana Watershed Project Authority
SIU – Significant Industrial Users
SOP – Standard Operating Procedure
SSMP – Sewer System Management Plan
SSO – Sanitary Sewer Overflow
SSOURGP – Sanitary Sewer Overflow Unified Response Guidance Plan
SWRCB – State Water Resources Control Board
TEAMS – Technical Enhancement and Management Succession
TYCIP – Ten Year Capital Improvement Program
URGP – Unified Response Guidance Plan
WDR – Wastewater Discharge Requirements



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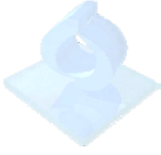
Element 1 - Goals

The goals of IEUA SSMP

On May 2, 2006, the State Water Resources Control Board (SWRCB) adopted Order No. 2006-0003, *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems* (WDR). All federal and state agencies, municipalities, counties, districts, and other public entities that own or operate sanitary sewer systems greater than one mile in length that collect and/or convey untreated or partially treated wastewater to a publically owned treatment facility in the State of California are required to comply with the terms of this Order. The principal requirement of the WDR is for each system owner to develop and implement a system-specific *Sewer System Management Plan* (SSMP). The IEUA SSMP has been prepared to meet the requirements of Order No. 2006-0003 issued on May 2, 2006. A copy of the Order No. 2006-0003 can be found in [Appendix 1-1](#). A revision to this order has been issued on Feb. 20, 2008 as Order No. 2008-0002-EXEC. A copy of this order can be found in [Appendix 1-2](#).

The IEUA operates two independent sewer collection systems – The Regional Sewer System (RSS) which serves to convey primarily domestic wastewater to one of IEUA’s four regional water recycling facilities and the Non-Reclaimable Wastewater System (NRWS) which collects and conveys wastewater containing high levels of dissolved salts outside the Agency’s service area due to the restrictive salinity requirements imposed upon the Agency’s RSS wastewater recycling facilities. The operation and maintenance of these two systems are the responsibility of the IEUA’s Pretreatment and Source Control (PT&SC) Department’s Collections System Group. This group has NASSCO® certified operators that monitor the IEUA systems using Closed-Circuit Television (CCTV). Condition assessment conducted over the past several years revealed that the majority of both collection systems are in relatively good structural condition with minimal repairs needed. Using the assessments and in conjunction with the WDR, IEUA developed its SSMP goals listed below:

1. To reduce the number of SSOs;
2. To mitigate and minimize the impact of SSOs;
3. To document mitigation measures and cost estimates;
4. To communicate the causes and effects of SSOs with member agencies;
5. To inspect and assess the collection system using CCTV as needed;
6. To develop Capital Improvement Programs (CIP);
7. To evaluate the capacity to convey base and peak flows to minimize the frequency and severity of SSOs using hydraulic modeling;
8. To develop a list of present and future funding sources to achieve these goals.



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Element 2 - Organization

IEUA was created in 1950 by popular vote with the mission to supply supplemental water to the Chino Basin. Since then, IEUA has expanded its areas of responsibility from a supplemental water supplier to a regional wastewater treatment agency, including domestic and industrial wastewater disposal systems and energy recovery & production facilities. IEUA's vision is to promote water conservation, water recycling, groundwater management, organic composting, renewable energy, and overall environmental stewardship in partnership with the communities served. IEUA provides its seven member agencies with wastewater treatment, recycled water, and biosolids treatment. The member agencies include the cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Upland, and the Cucamonga Valley Water District (CVWD). IEUA's five-member Board of Directors is elected to represent approximately 850,000¹ residents within the IEUA's service area. Each board member is elected by Division to serve a four-year term. [Figure 1](#) shows IEUA's Organizational Chart, and [Figure 2](#) shows the Operations Division Chain of Command.

IEUA has developed an *SSO Unified Response Guidance Plan (URGP)* for its service area. The SSO URGP is intended to provide IEUA with emergency response procedures should an overflow occur. The URGP is also intended to comply with the requirements of the National Incident Management System (NIMS). [Figure 3](#) outlines the current IEUA chain of communication for reporting SSOs. The chain of communication begins when Agency staff becomes aware of a sanitary sewer overflow situation; this includes the person responsible for notifying the appropriate regulatory agencies, such as the Regional Water Quality Control Board (RWQCB), the local County Health Department (CHD), the California Department of Public Health (CDPH), and the State Office of Emergency Services (OES). However, reporting to the OES is required only if the SSO exceeds 1,000 gallons.

A Concise Contact List In Case of Emergency SSO is provided in [Appendix 2-1](#)

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¹ Population estimate as of 2009

Figure 1 - IEUA Organizational Chart

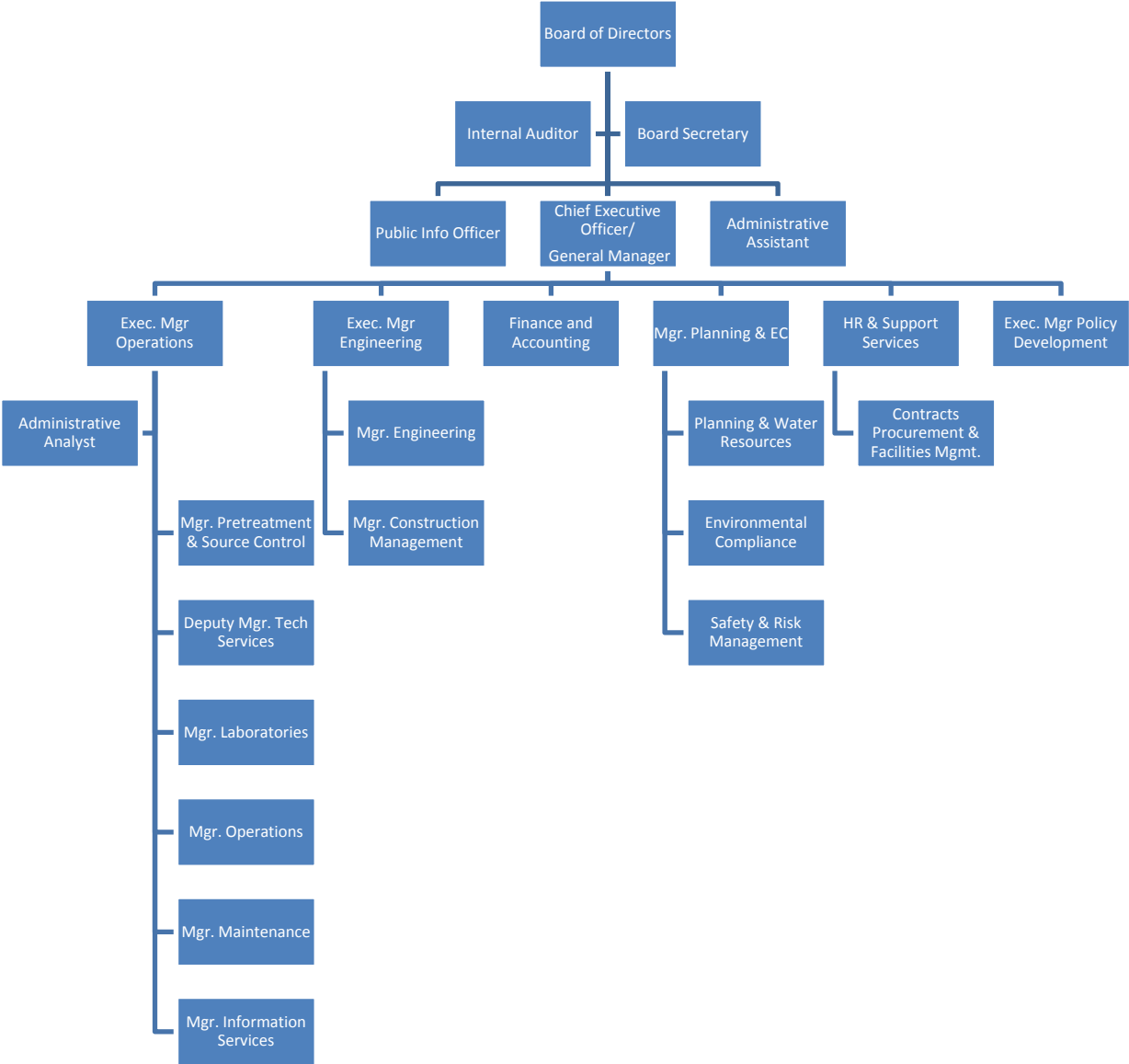




Figure 2 - IEUA Operations Division Chain of Command

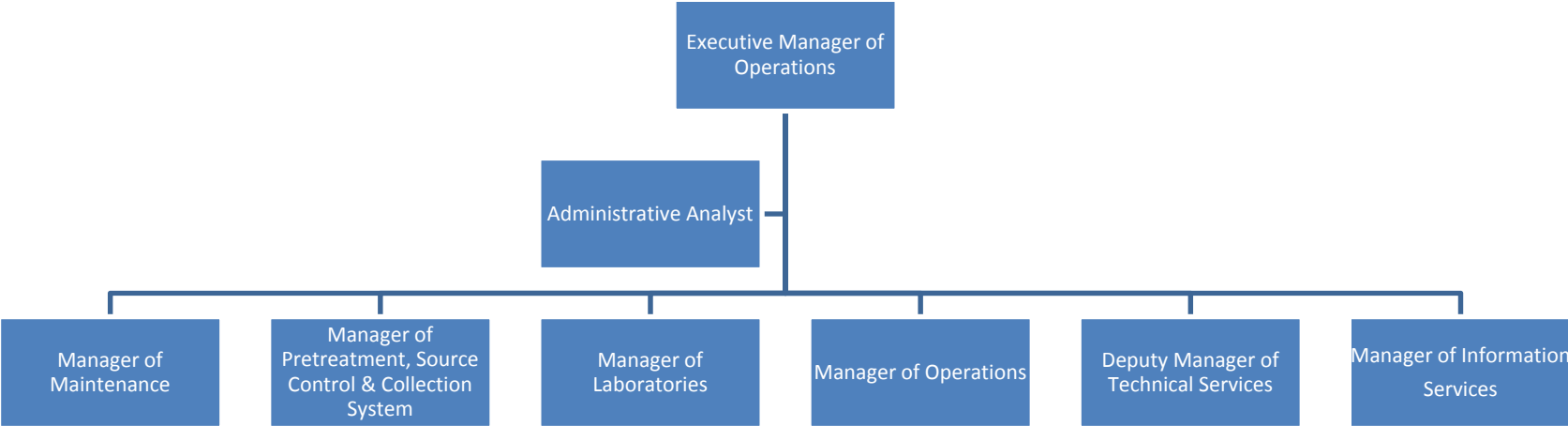
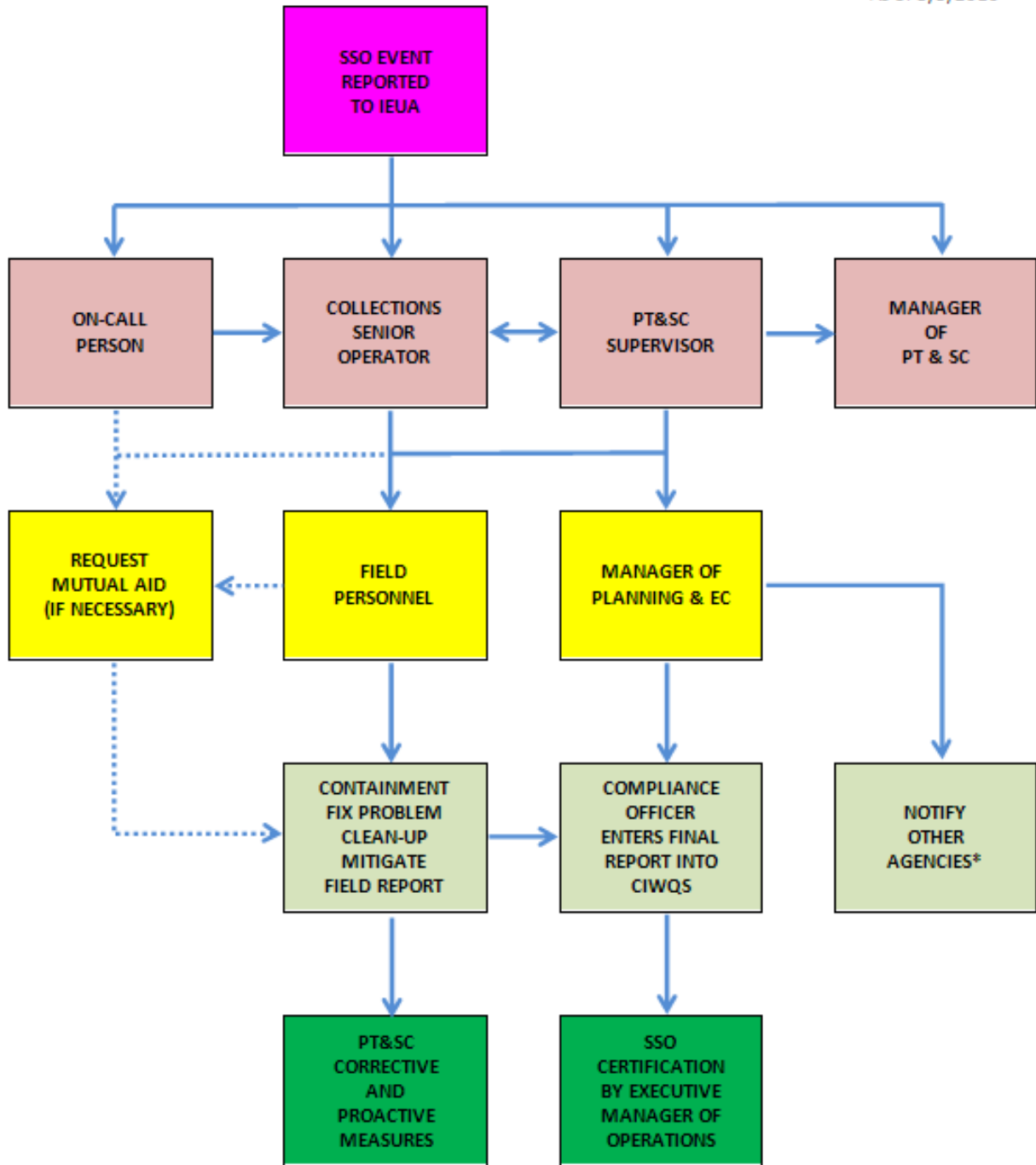


Figure 3 - Chain of Communication for Reporting SSO

As of 3/3/2010



*More in Appendix 1-2 for Monitoring, Reporting and Notification requirements.
 More in Appendix 6-1 for Sanitary Sewer Overflow Uniform Response Guidance Plan

Figure 4 - SSO Response Flowchart

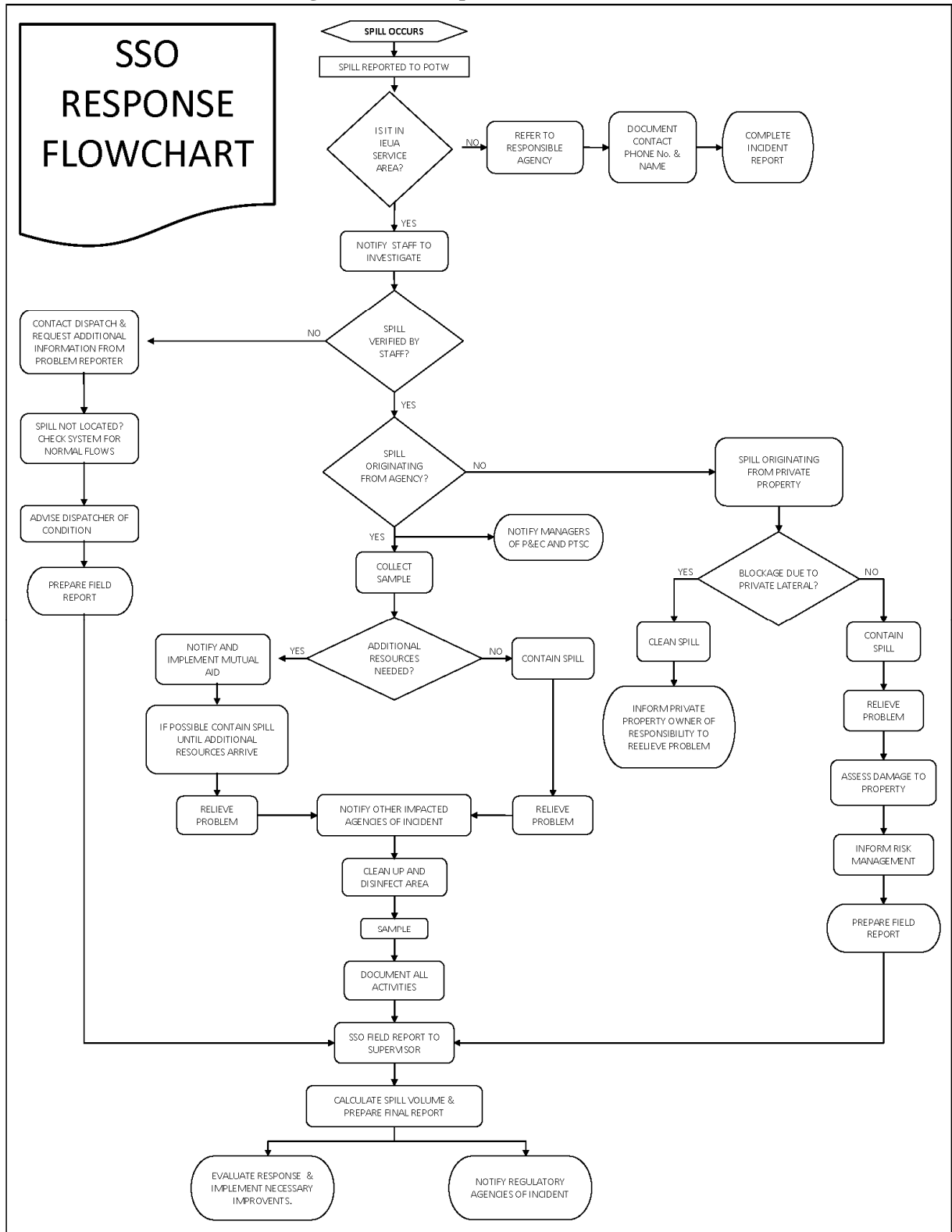




Table 1 - Agencies to be Notified for Category 1 SSO

Agency	Phone /E-mail	Notification Time
CalEMA	(800) 852-7550	Within 2 hrs after becoming aware of discharge
San Bernardino County Environmental Health Services	Director of Environmental Health davera@dph.sbcounty.gov or (800) 472-2376 for emergency	Within 2 hrs after becoming aware of discharge
Regional Water Quality Control Board – Region 8	(951) 782-4130	Within 2 hrs after becoming aware of discharge (not necessary if CalEMA is contacted)
Regional Water Quality Control Board – Region 8	spillreportRX@waterboards.ca.gov	Within 24 hrs after becoming aware of discharge (email certification)
Regional Water Quality Control Board – Region 8	INITIAL On-Line Report http://www.swrcb.ca.gov/ciwqs/	Within 3 days after becoming aware of discharge
Regional Water Quality Control Board – Region 8	FINAL On-Line Report http://www.swrcb.ca.gov/ciwqs/	Within 15 days after conclusion of SSO remediation

Notes:

Category 1 - All discharges of sewage resulting from a failure in the Enrollee's sanitary sewer system that:

- A. Equal or exceed 1,000 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.

Minimum Mandatory Information to be Included in Reporting within 2 hours to CalEMA and SBCEHS:

- 1) Location, date, and time;
- 2) Water body that received or will receive discharge;
- 3) Estimate of the amount of sewage or other waste released and the amount that reached surface water at time of notification;
- 4) If ongoing, estimated flow rate of the release at time of notification;
- 5) Name, organization, phone number, and email address of the reporting representative.

Minimum Mandatory Information to be Included in Reporting for 24-hr certification to RWQCB:

- 1) Agency NPDES No., Order No., and MRP No., if applicable;
- 2) Location, date, and time of the discharge;
- 3) Water body that received the discharge; description of level of treatment of the sewage or other waste discharged.
- 4) An initial estimate of the amount of sewage or other waste released and the amount that reached a surface water;
- 5) CalEMA Control No and the date and time that notification of the incident was provided to the CalEMA;



- 6) name of the local health officer or director of the environmental health representative notified (if contacted directly); the date and time of notification, and the method of notification (e.g., phone, fax, or email)

Minimum Mandatory Information to be Included Prior to Finalizing and Certifying Category 1

SSO

- 1) Location of SSO by entering GPS coordinates;
- 2) Applicable Regional Water Board, i.e. identify the region in which the SSO occurred;
- 3) County where SSO occurred;
- 4) Whether or not the SSO entered a drainage channel and/or surface water;
- 5) Whether or not the SSO was discharged to a storm drain pipe that was not fully captured and returned to the sanitary sewer system;
- 6) Estimated SSO volume in gallons;
- 7) SSO source (manhole, cleanout, etc.);
- 8) SSO cause (mainline blockage, roots, etc.);
- 9) Time of SSO notification or discovery;
- 10) Estimated operator arrival time;
- 11) SSO destination;
- 12) Estimated SSO end time;
- 13) Estimated SSO volume that reached surface water, drainage channel, or not recovered from a storm drain;
- 14) Estimated SSO amount recovered;
- 15) Response and corrective action taken;
- 16) If samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA must be selected;
- 17) Parameters that samples were analyzed for (if applicable);
- 18) Identification of whether or not health warnings were posted;
- 19) Beaches impacted (if applicable). If no beach was impacted, NA must be selected;
- 20) Whether or not there is an ongoing investigation;
- 21) Steps taken or planned to reduce, eliminate, and prevent recurrence of the overflow and a schedule of major milestones for those steps;
- 22) OES control number (if applicable);
- 23) Date CalEMA was called (if applicable);
- 24) Time CalEMA was called (if applicable);
- 25) Identification of whether or not County Health Officers were called;
- 26) Date County Health Officer was called (if applicable); and
- 27) Time County Health Officer was called (if applicable);
- 28) SSO Certification. Upon SSO Certification, the SSO Database will issue a Final SSO Identification (ID) Number.

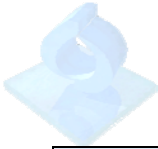


Table 2 - Agencies to be Notified for Category 2 SSO

Agency	Phone /E-mail	Notification Time
San Bernardino County Environmental Health Services	Director of Environmental Health davera@dph.sbcounty.gov or (800) 472-2376 for emergency	As soon as possible (time not specified)
Regional Water Quality Control Board – Region 8	On-Line Report Only http://www.swrcb.ca.gov/ciwqs/	Within 30 days after the end of the calendar month in which the SSO occurs

Notes:

Category 2 - All other discharges of sewage resulting from a failure in the Enrollee's sanitary sewer system that does not meet Category 1 criteria. (Only online CIWQS reporting required for Category 2 SSOs within 30 days after the end of the calendar month in which the SSO occurs)

Minimum Mandatory Information to be Included Prior to Finalizing and Certifying Category 2 SSO

- 1) Location of SSO by entering GPS coordinates;
- 2) Applicable Regional Water Board, i.e. identify the region in which the SSO occurred;
- 3) County where SSO occurred;
- 4) Whether or not the SSO entered a drainage channel and/or surface water;
- 5) Whether or not the SSO was discharged to a storm drain pipe that was not fully captured and returned to the sanitary sewer system;
- 6) Estimated SSO volume in gallons;
- 7) SSO source (manhole, cleanout, etc.);
- 8) SSO cause (mainline blockage, roots, etc.);
- 9) Time of SSO notification or discovery;
- 10) Estimated operator arrival time;
- 11) SSO destination;
- 12) Estimated SSO end time; and
- 13) SSO Certification. Upon SSO Certification, the SSO Database will issue a Final SSO Identification (ID) Number.



Table 3 - Other Regulatory Agencies Contact List (If Required)

AGENCY	PHONE	CRITERIA
California Department of Fish and Game	(909) 484-0167	Sewage spill impacts or threatens state water.
California Highway Patrol	Normally contacted by CalEMA 909-388-8000	Sewage spill occurs within their jurisdictional boundaries.
Department of Transportation (CALTRANS)	866.383.4631 909.383.4631	Sewage spill affects a state highway.
Department of Water Resources	Call CalEMA	Sewage spill threatens to contaminate or otherwise disrupt the operation of the State Water Project.
Orange County Emergency Management Agency (OCEMA)	714.723.7111 Fax: 714.567.6340	Sewage spill impacts the storm drain system in Orange County.
Riverside County Flood Control and Water Conservation District	909.955.1200 Fax: 909.788.9965	Sewage spill impacts the storm drain system in San Bernardino County.
San Bernardino County Environmental Management Group Department of Health Services	909.387.4692	Sewage spill occurs in San Bernardino County that is a public health and safety hazard.
Orange County Water District	714.378.3200 Fax: 714.378.3373	Sewage spill discharges into Prado Basin (via tributary creeks) or the Santa Ana River

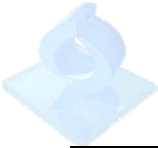


Table 4 - IEUA Emergency Cell Phone Contact List for SSO

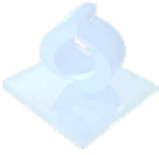
Operations	Planing & EC.	PT & SC & Collections	Maintenance	Safety/Risk Management
Manuel Moreno Ops Supervisor (RP-1) (909) 635-7168	Chris Berch Mgr. of Planning and EC (909) 732-1844	Collections System Emergency On-Call Person (951)675-1131	On-Call PMT (909) 203-2976	Claudia Neighbors Safety Analyst (951) 255-7439
Moustafa Aly Ops Supervisor (RP-2) (909) 732-3005	Bonita Fan Sr. Env. Compliance Officer (909) 993-1716 (Office)	Jann Ritchie Sr. Collections Operator (909) 732-2240	Ernest Yeboah Mgr of EP and Maintenance (909) 203-2975	Warren Green Mgr. Of Safety and Risk (909) 217-0639
Gregg Bingham Ops Supervisor (RP-4) (909) 342-4683		Craig Proctor PT & SC Supervisor (909) 573-5709	Mike McFarland Deputy Mgr. of Plant Maint. (909) 472-5370	Jack Frazier Mgr. of Safety (951) 415-6985
Michael Gutierrez Ops Supervisor (RP-5/CC) (909) 680-7166		Pari Dezham Mgr. of PT & SC (949) 374-0511		Gina Hillary Mgr. of HR & Support Services (951) 505-7811
Chander Letulle Deputy Mgr. (RP-5/CC/RP-2) (909) 573-6350				
Gaspar Garza Deputy Mgr. (RP-1/RP-4) (909) 241-0788				
Randy Lee Mgr. of Operations (909) 472-1722				
Patrick Sheilds Exec. Mgr. of Operations (909) 664-3407				

NOTE: FOR EACH DEPARTMENT, CALL FROM TOP TO BOTTOM UNTIL CONTACT IS MADE.



Table 5 - Member Agencies Emergency Contact List for SSO

AGENCY	CELL PHONE	AFTER HOURS/POLICE/FIRE
City of Chino	909.591.9824	909.628.1234
Public Works Services Manager	909.721.0741	
Environmental Coordinator	951.316.5997	
Environmental Technician	562.201.0134	
Maintenance Lead Worker	760.559.4878	
City of Chino Hills	909.238.3279	909.364.2000
Public Works Department	909.364.2800	
Public Works Department	909.573.4375	
Public Works Department	909.573.4359	
Public Works Department	909.573.4397	
City of Fontana	909.350.6760	909.350.7700
Utilities Supervisor	909.240.1301	
Environmental Control Supervisor	909.224.5538	
Environmental Control Specialist	909.549.9542	
Street and utility standby	909 721 8770	
City of Montclair	909. 625.9466	909.621.4771
Environmental Manager	909.721.1776	
Public Works Superintendent	909.721.1751	
Assistant Public Works Superintendent	909.721.1755	
Environmental Control Specialist	909.721.1687	
City of Ontario	909.721.7246	909.721-7246
Utilities Senior Technician	909.772.8338	
Environmental Programs Manager	909.721.9137	
Utilities Operations Manager	909.721.8937	
City of Upland	909.931.4230	909.946.7624
Operations Maintenance Superintendent	909.376.0958	
Dep. Director Public Works - Operations	909.376.0947	
Dep. Director Public Works - Operations	909.376.1291	
Cucamonga Valley Water District	909.987.2591	
Construction & Maintenance Superintendent	951.206.7709	
Sewer Maintenance Foreman	951.206.6277	
Water Maintenance Foreman	951.990.5558	



Element 3 - Legal Authority

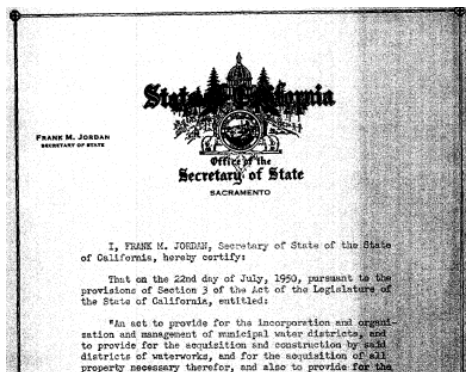
WDR Requirements Summary

- a) Prevent illicit discharges into its sanitary sewer system (examples may include I/I, stormwater, chemical dumping, unauthorized debris and cut roots, etc.);
- b) Require that sewers and connections be properly designed and constructed;
- c) Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;
- d) Limit the discharge of fats, oils, and grease and other debris that may cause blockages, and
- e) Enforce any violation of its sewer ordinances.

IEUA Compliance Summary

IEUA's legal authority is granted pursuant to the authorization of the Municipal Water District Law of 1911, California Water Code Section 71000 et seq., California Government Code Section 54739 et seq., the Clean Water Act (33 U.S.C. 1251 et seq.) and the General Pre-Treatment regulations (40 C.F.R. 403).

History



In April 17, 1950, a petition was filed with the Board of Supervisors of the County of San Bernardino, State of California, regarding the organization of Chino Basin Municipal Water District (CBMWD) pursuant to the provisions of the Municipal Water District Act of 1911. A special election was ordered within the proposed district and elections were held on June 6, 1950. 11,921 votes out of 13,787 supported the organization of CBMWD. On July 3, 1950, in the regular meeting of the Board of Supervisors of the County of San Bernardino, State of California, the Board adopted the proposition of the formation of CBMWD, and it recorded under Book 2609, Page 231. Subsequently, in July 22, 1950, the State of California incorporated CBMWD under the laws of the Municipal Water District. CBMWD covers an area of 242 square miles with a current population of approximately 850,000.

On July 1, 1998, the CBMWD was renamed Inland Empire Utilities Agency (IEUA) to better reflect the service area it serves and its activities.



Objectives

IEUA's legal authority objectives are as follows – prevent illegal discharges by requiring discharge permits, require proper design and construction of sewer systems, have access or right of entry to any property connected to the sewer system, require dischargers to meet discharge limits, charges and fees for services. IEUA achieves these objectives by means of Ordinances, Permits, Resolutions, and industry accepted standard practices.

Ordinances

The IEUA Regional and NRWS collection systems are governed by two ordinances – Regional Wastewater System Ordinance No. 82 and the NRWS Ordinance No. 62. The regional wastewater system is a collection and conveyance system providing service for primarily residential neighborhoods with some commercial and industrial dischargers that meet the IEUA's pretreatment discharge local limits. The NRWS is a collection and conveyance system dedicated to industrial wastewater discharges containing high levels of dissolved salts. This system is composed of two independent sub-systems – The Santa Ana Regional Interceptor (SARI) which is owned by the Santa Ana Watershed Project Authority (SAWPA) that discharges to the Orange County Sanitation Districts (OCS D) and the North NRWS that discharges to County Sanitation District of Los Angeles County (CSDLAC)

Regional Wastewater System Ordinance No. 82

A copy of this Ordinance is in [Appendix 3-3](#). It is also available on the IEUA website:

<http://www.ieua.org/departments/pre/ordinances.html> or

<http://www.ieua.org/departments/pre/docs/RegionalWastewaterOrdinanceNo82.pdf>

Ordinance No. 82 objectives are to provide maximum beneficial use of the Regional Sewerage System, ground water resources and effluent receiving waterways by preventing the introduction of pollutants which may harm or interfere with the collection system and the operation of the wastewater recycling facilities. This Ordinance covers wastewater discharge requirements such as permitting, discharge prohibitions, compliance monitoring, and enforcement.

IEUA operates its pretreatment program pursuant to the legal authority contained in Ordinance No. 82, enforceable in Federal, State, or local courts, which authorizes or enables IEUA to apply and enforce the requirements of Sections 307 (b) and (c), and 402 (b)(8) of the Clean Water Act and any regulations implementing those sections. The IEUA approved pretreatment program designates IEUA as the primary control authority for Significant Industrial Users (SIUs) within IEUA's service area that includes the cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Upland and the Cucamonga Valley



Water District, collectively known as the Regional Contracting Agencies (RCAs). IEUA and the RCAs use a standardized format for enforcement response plans and control mechanisms. IEUA and the RCAs have contractual agreements in place to acknowledge IEUA as the control authority having oversight of the regional pretreatment program. As required by the RWQCB, IEUA and the RCAs have developed region wide pretreatment mechanisms that are consistent and uniform throughout the IEUA service area.

Non-Reclaimable Wastewater System (NRWS) Ordinance No. 62

A copy of Ordinance No. 62 is in [Appendix 3-4](#). It is also available on the IEUA website:

<http://www.ieua.org/departments/pre/ordinances.html> or

<http://www.ieua.org/departments/pre/docs/ordinanceno62final.pdf>

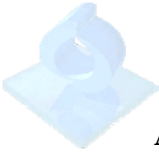
Ordinance 62 objectives are to provide maximum beneficial use of the NRWS by preventing the introduction of pollutants which may harm or interfere with the collection system and the operation of the OCSD and CSDLAC wastewater treatment plants. This ordinance covers the general discharge requirements such as permitting, discharge limitations, compliance monitoring, and enforcement.

Permits

Any entity who wants to discharge into the IEUA sewer system must first obtain and maintain a valid permit. Any discharge without a valid permit is considered an illegal discharge and is subject to enforcement action under the terms and conditions of the IEUA Ordinance. A permit applicant must submit documents with relevant information regarding the source, strength, and volume of the wastewater generated; the proposed alignment of the sewer conveyance system to the IEUA trunk lines, proper design and construction of the system, etc. The information is then evaluated by the engineering office engineer and pretreatment permit engineer. Only when it meets the IEUA requirements is a permit with discharge limits issued to the applicant.

NRWS Rate Resolutions

Rate Resolutions are approved and/or amended by the IEUA Board, usually around June for the next fiscal year. The Rate Resolutions are generally good for one year and cover both the SARI and NRW systems. Rate Resolutions cover the capacity, volumetric, strength, capital improvement program and administrative fees.



Amendments

Ordinances and rate resolutions are subject to amendments to accommodate the dynamics of the sewer industry.

IEUA Compliance Documents

The following documents meet the Order requirements for this element.

- San Bernardino County Board Approval of Chino Basin Municipal Water District (B2609_P234) 02653, [Appendix 3-1](#)
- Acts of Incorporation with the San Bernardino County, CA, [Appendix 3-2](#)
- Ordinance No. 82 governs the Regional Wastewater System. It was last approved in [December 7, 2005](#). A copy of this Ordinance is in [Appendix 3-3](#). It is also available on the IEUA website:
- <http://www.ieua.org/departments/pre/docs/RegionalWastewaterOrdinanceNo82.pdf>
- NRWS Ordinance No. 62 governs the Non-Reclaimable Wastewater System. It was last approved in [November 5, 1997](#). A copy of this Ordinance is in [Appendix 3-4](#). It is also available on the IEUA website:

<http://www.ieua.org/departments/pre/docs/ordinanceno62final.pdf>

- The NRWS Rate Resolution is revised annually. A copy for FY 2009-2010 can be found in [Appendix 3-5](#). It is also available on the IEUA website:

<http://www.ieua.org/departments/pre/rates.html>



Element 4 - Operations & Maintenance Program

WDR Requirements Summary

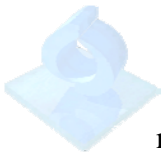
The SSMP must include those elements listed below that are appropriate and applicable to the Enrollee's system:

- a) Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities;
- b) Describe routine preventive operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders;
- c) Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. The program should include regular visual and TV inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short- and long-term plans plus a schedule for developing the funds needed for the capital improvement plan;
- d) Provide training on a regular basis for staff in sanitary sewer system operations and maintenance, and require contractors to be appropriately trained; and
- e) Provide equipment and replacement part inventories, including identification of critical replacement parts.

IEUA Compliance Summary

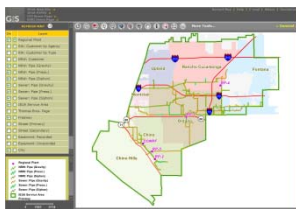
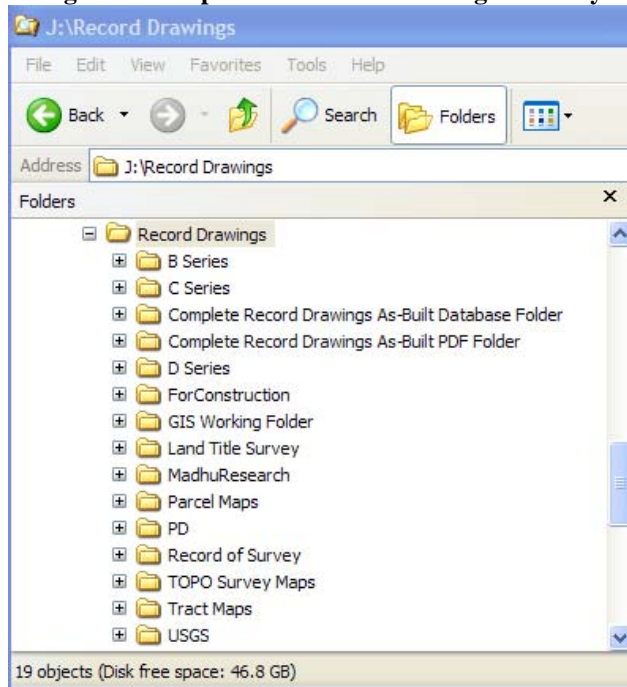
Collections System Map & Storm Drain System Map

IEUA understands the importance of good mapping of its sewer collection system. Hence, IEUA maintains both hard copies and electronic versions of its sewer collection system. Two of IEUA's departments, Engineering and Construction Management,



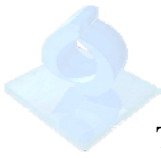
maintain a library in its main headquarters in Chino, California, with all design and As-Built drawings. In addition, all the drawings are also archived in electronic DWG, TIFF and/or PDF formats for easy access and compatibility. A snapshot of the record drawings directory is shown below in [Figure 4](#).

Figure 5 - Snapshot of Record Drawing Directory



IEUA also maintains a Geographic Information System (GIS) of its entire sewer collection system using ARC[®] software. This is the best way to fully visualize the entire sewer system. This system is supported by IEUA's Information and Technology (IT) department. In addition to IEUA's shape files, which include the regional system, the NRW system, the recycled water system, and customers; member agencies' sewer collections system shape files, parcel layers and aerial layers are also incorporated. All these information is readily accessible from any computer within IEUA's intranet.

IEUA does not own or operate any stormwater conveyance systems. The Flood Control functions are handled through the San Bernardino County Flood Control District under State legislation enacted in 1939. The County of San Bernardino, along with 16 cities and the San Bernardino County Flood Control District, has the area-wide stormwater permit program. The current permit requires each co-permittee to implement an Urban Runoff Program, including the best management practices (BMPs) identified in the area-wide Drainage Area Management Plan (DAMP). [Appendix 4-1](#) shows the Southwest portion of the San Bernardino Flood Control System.



This map shows the location and direction of spill flow to storm drains and the corresponding flood control channel, and they are the primary maps used by spill responders to determine flow direction in the sewage flow area.

As of **November 2008**, IEUA’s sewer collections network consist of the following:

Table 6 - IEUA Collection Network

Sewer Collection System	Pipeline (ft)	Manhole
Regional Sewer System (RSS)	457,248 (86.6 mi)	1,849
Non-Reclaimable Wastewater (NRW)	347,002 (65.7 mi)	866
Non-Reclaimable Wastewater (SARI)	25,925 (4.9 mi)	94
Total	830,175 (157 mi)	2,809

The current goals for GIS are as follows (subject to availability):

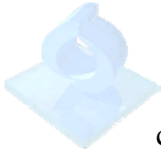
- update GIS data biennially
- update member agencies’ shape files biennially
- update aerial layers biennially
- update parcel layers every 5-year

Preventive Operations & Maintenance

In order to keep the sewer collections system in top working condition, IEUA conducts preventive and reactive maintenance of its system. Potential problem areas such as siphons and other “hot spots” are placed on an accelerated cleaning schedule to minimize the potential for an SSO event. IEUA’s staff uses a Computerized Maintenance Management Software (CMMS) and Enterprise Asset Management software from SAP® (implemented in 2007) for tracking maintenance program activities.



IEUA’s sewer collection system inspections are conducted using the latest color CCTV cameras using POSM® software for video capture, fault observations and annotations, and pipe plots. Trimble® GPS units are used to collect information about manholes and pipelines. A specially designed truck accommodates all the equipment and appurtenances for CCTV. The locally stored CCTV data is transferred into IEUA’s main server and burned into digital media, such as DVD. The information collected is then analyzed for pipeline condition assessment. Preliminary assessment is completed in the field by Collections staff performing the CCTV inspections. An in depth assessment is performed afterwards back at the office. Based on workload, both CCTV inspection and condition assessment may be completed by a



consultant. The results of the CCTV assessment are then transferred to the IEUA Engineering Department. Engineering in turn creates a capital improvement plan (CIP).

Current CCTV goal is to inspect the sewer system in a “as needed” basis until IEUA collects sufficient data to identify hot spots that will require more frequent monitoring.

Rehabilitation & Replacement Program

The resulting CIP recommendations from IEUA’s Engineering or consultant’s evaluation of the CCTV inspection is sent out for bids. The methods used for rehabilitation and/or replacement will vary depending on the type of pipe or manhole structure and the extent of damage. Replacement is carried out when there are no viable alternative rehabilitation techniques.

A comprehensive Engineering and Construction Management report can be found in [Appendix 4-2](#). This report lists all the projects and is updated on a quarterly basis or as needed. For the Regional Sewer system, IEUA has the following CIPs based on the CCTV inspection activities conducted by IEUA’s Collection staff:

Table 7 - IEUA Regional Capital Improvement Plan

Engineering Project No.	Project Name	Design Engineer	Construction Completion Date
EC08012	Regional Interceptor		
EC08017	Regional Brine Management		
PL07015	Regional Interceptor Flow Monitoring		
EN03023.00	San Bernardino Ave. Pump Station		2-26-09
EN05015.00	Easements for Archibald Sewers		10-27-08
EN05035.01	Upland Interceptor Relief Sewer 6 th St.		2-19-09
EN06011.00	Collection System Emergency Upgrade		3-25-10

For the NRWS, IEUA hired a consultant in 2005, and the resulting CIP is currently under design, bid, and/or construction. The consultant’s recommended rehabilitation and/or replacement methods and schedules are being followed. Below is a list of current NRWS CIPs.



Table 8 - IEUA NRW Capital Improvement Plan

Engineering Project	Project Name	Design Engineer	Construction Completion Date
EN07011.02	NRW Collection System Repairs 2007	PBS&J	February 2009
EN07011.02	NRW Access Manholes on Philadelphia Avenue Force Main	Taghi Monzavi	November 2010
EN08003.00	Ontario Brine Line Connection	Boyle Engineering	December 2009
EN07011.03	Edison NRW Line Rehabilitation	Boyle Engineering	December 2009
EN07011.05	NRW Collection System Asset Management Phase II	Lee & Ro	April 2010
EN07017	RP-2-SARI Dump Station		

Training



IEUA understands that training is essential for proper maintenance activities. IEUA encourages all of its staff to stay in touch with today’s technology and the latest innovations as they relate to the collection system industry through continuing education, conferences, seminars and workshops provided by reputable organizations and manufacturers. Staff is also encouraged to obtain membership in professional organizations. In addition, there is also mandatory training for IEUA’s Collection system operators.

IEUA staff currently participates in the California Water Environment Association certification program for Collection System Maintenance, Grades I through IV. IEUA provides on-going in-house technical, safety and other training for its staff under the Technical Enhancement and Management Succession (TEAMS), a multi-level, multi-phase training and development system to fit the already demanding work life of each IEUA staff member. IEUA collection system staff also participates in semi-annual training with RCA staff consisting of lectures and overviews of current issues as they relate to the effective maintenance and operation of the Agencies’ collection systems. This training has proven to be invaluable and serves as an excellent tool for networking and teambuilding for IEUA and the RCAs.

IEUA is developing a virtual training program for new staff, which will include SOPs for line cleaning, combination jet/vacuum truck operation, sewer grit removal and dumping, valve operation at pump stations and other related tasks. *Figure 5* shows the current electronic library and virtual training available to all IEUA staff; and *Figure 6* shows some of the training components.

Figure 6 - IEUA Electronic Library and Virtual Training

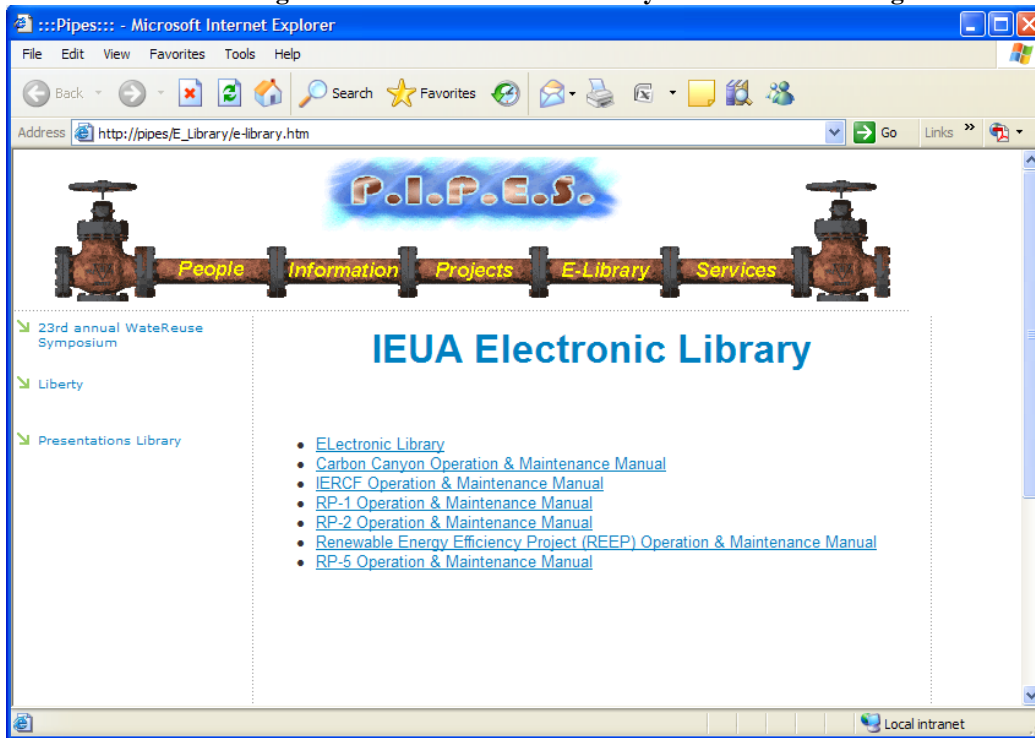
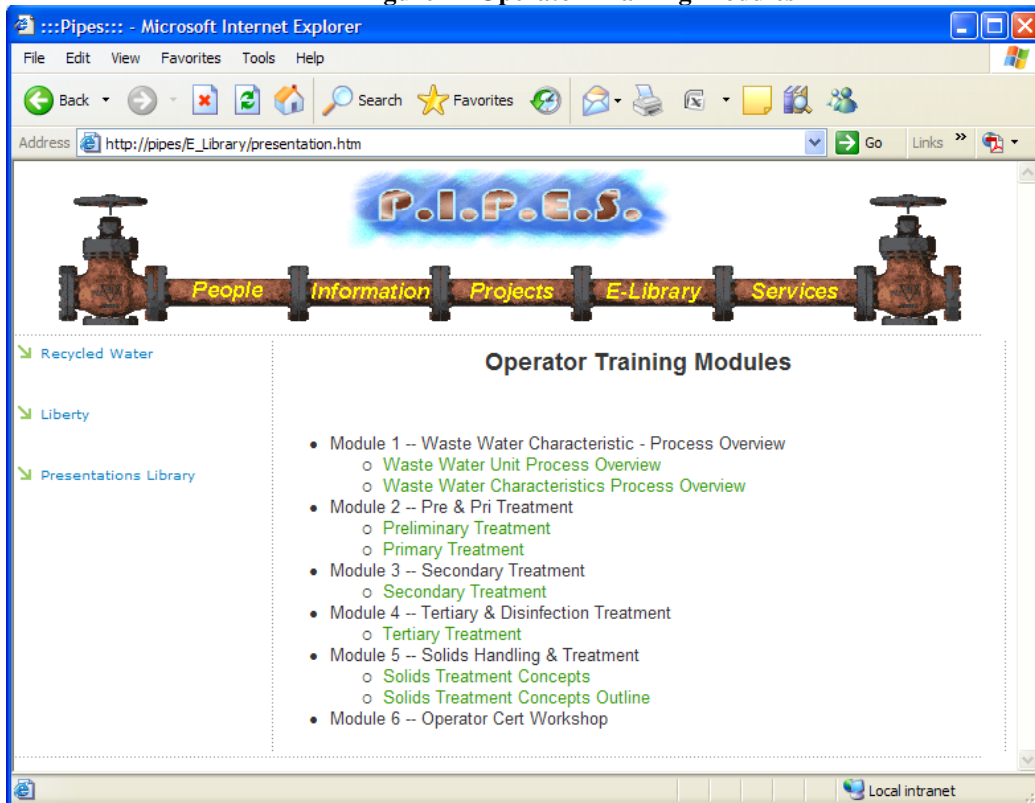


Figure 7 - Operator Training Modules





In addition, IEUA conducts mandatory safety training as required by OSHA and IEUA. [Appendix 4-3](#) shows the list of training subjects as well as its frequency.

Contingency Equipment & Replacement Inventories

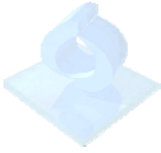


IEUA has critical parts in stock at its warehouse in Regional Plant No. 1 in Ontario, CA and Regional Plant No. 4 in Rancho Cucamonga, CA. The parts list was compiled by the Operations & Maintenance and Collections groups. The list includes pumps, motors, manhole covers and rings. In addition, IEUA retains rotating contractors that are available for any emergency pipeline repairs. IEUA has a mutual aid agreement in place with all of the RCAs which provides for the sharing of resources, equipment and personnel from the RCAs in the event of an emergency. The City of Ontario and the Cucamonga Valley Water District both have trailer mounted bypass pumps and hoses that are available through the mutual aid agreements in the event an emergency bypass is needed.

IEUA Compliance Documents

The following documents meet the Order requirement for this element.

- IEUA Electronic Library and Virtual Training Webpage
- San Bernardino S Map - [Appendix 4-1](#)
- Engineering & Construction Report – [Appendix 4-2](#)
- Safety Training - [Appendix 4-3](#)
- TYCIP – [Appendix 4-4](#)
- Parts Inventory List - [Appendix 4-5](#)
- Parts Inventory List-Manholes- [Appendix 4-6](#)



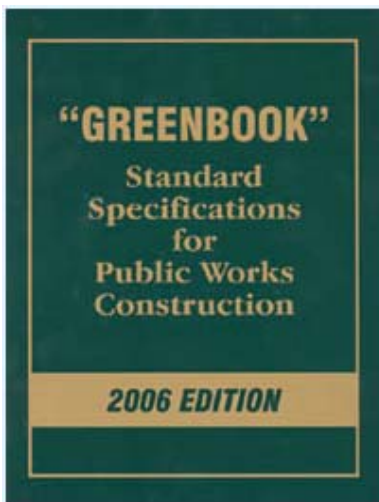
Element 5 - Design & Performance Provisions

WDR Requirements Summary

- a) Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- b) Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

IEUA Compliance Summary

Standards for Installation, Rehabilitation and Repair



IEUA has two ways to oversee design and performance of its Regional and Non-Reclaimable sewer systems' constructions. For manholes and connections, IEUA has manhole and connections standards. For all other standards, IEUA adheres to the *Standard Specifications for Public Works Construction*, commonly known as the "GREENBOOK" standards.

IEUA has an Engineering department with resources to design a system so that it will perform as intended. The staff is composed of various engineering disciplines to tackle even the most difficult of designs. AutoCAD® is the standard drawing format. In addition, all bid proposals must also adhere to the *Greenbook* standards.

Standards for Inspection and Testing of New, Rehabilitated, and Repaired Facilities

IEUA has a Construction Management department with resources to make sure every project is built to code as designed. Staff consists of various disciplines to ensure a project is built as designed. For pipeline rehabilitation and repairs this is accomplished by requiring CCTV inspection and assessment before accepting and commissioning a project.



IEUA Compliance Documents

The following documents meet the Order requirement for this element.

- Standard for manholes is in [Appendix 5-1](#)
- Standard for connections is in [Appendix 5-2](#)
- Standard for bedding & backfill is in [Appendix 5-3](#)
- Copies of *Standard Specifications for Public Works Construction (Greenbook)* are available in the IEUA's Engineering Department.



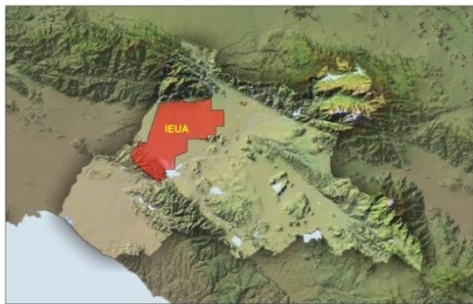
Element 6 - Overflow Emergency Response Program

WDR Requirements Summary

- a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- b) A program to ensure an appropriate response to all overflows;
- c) Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the MRP. All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification;
- d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- e) Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- f) A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

IEUA Compliance Summary

Sanitary Sewer Overflow
Unified Response Guidance Plan



One of the IEUA's goals is to have zero SSOs to protect public health and the environment and to comply with regulatory agencies. This will minimize the risk of enforcement actions against IEUA. However, should an overflow occur, IEUA follows the guidelines established under the *Sanitary Sewer Overflow Unified Response Guidance Plan*. The Plan is included in [Appendix 6-1](#). This comprehensive plan is designed to provide IEUA and its member agencies with emergency response procedures and to ensure any reported spill is responded to immediately and address impact mitigation. A continuous training is also addressed in the plan. The Plan includes a Mutual Aid Agreement with all member agencies within



the IEUA's service area. The Plan is also intended to meet the requirements of the National Incident Management System (NIMS). The NIMS provides a nationwide approach to incident management, integrating best management practices.

Overview of Sewer Overflow Emergency Response Plan

The Sanitary Sewer Overflow Unified Response Guidance Plan has been adopted as a general policy for IEUA and its member agencies. This document defines the guidelines for responding to emergency SSOs. It covers the following sections:

1. Purpose and Objectives
2. Overflow Response Procedures
3. Public Advisory Procedures
4. Plan Update

Purpose and Objectives

The Sanitary Sewer Overflow Unified Response Guidance Plan () is designed to ensure any reported spill is responded to immediately, to protect the public health and safety, and to protect the beneficial uses of the waters of the United States. The plan has been developed specifically for Inland Empire Utilities Agency (IEUA) and its Regional Contracting Agencies (RCA) consisting of the Cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Upland, and the Cucamonga County Water District. Additional objectives of the SSOURGP are:

- protection of collection system, wastewater treatment facilities, and all appurtenances;
- protection of public and private property;
- protection of water quality; and
- provide documented policies for the Agencies' staff to follow.

SSOURGP list uniform definition of terms used in Section 1.4. In addition, Section 1.5 of the SSOURGP describes SSO Tracking

Overflow Response Procedures

This subsection describes the duties of the collection system operators responding to the SSO. When an SSO is reported, the collections group is responsible for first and foremost protecting public health and safety to the maximum extent possible by taking all steps necessary to minimize impacts including controlling and limiting the amount of SSO, terminating the discharge, sampling, recovery and clean-up. They must also make an assessment of the need for additional resources through the mutual aid agreement.



This subsection also describes the procedures that take place once an SSO report has been received and confirmed by field verification, including notifying appropriate authorities and public advisories if needed. *Figure 5* shows the SSO Event Reporting Line. In the Overflow Response Procedures, the following sections are included:

- Notification Procedure
- SSO Response
- Crew Instructions
- Traffic and Crowd Control
- Additional Resources/Mutual Aid Agreements
- Preliminary Assessment of Damage to Private/Public Property
- Overflow Correction, Containment, and Cleanup
- Private Property SSO
- Regulatory Agency Notification Plan
- Sewer Overflow and Discharge Report
- Collection System Mapping
- Training

Public Advisory Procedures

In public accessed areas signage and barriers must be in place for the duration of the cleanup and disinfection process. Signs warning the public of a sewage release will be posted in the affected area(s). Signs will include, at a minimum, the wording of “RAW SEWAGE”. Warning signs will remain posted until the Department of Environmental Health Division of San Bernardino County or RWQCB staff authorizes their removal, or until receiving water sample results indicate background levels (levels determined by upstream samples) have been attained.

Plan Update

This plan is a dynamic document and will be revised to reflect current policies and procedures as needed. The plan will be periodically reviewed and the phone numbers and forms will be updated, and a review of procedures will be conducted. The periodic review of the plan will also insure all provisions of the plan are being met and implemented. Any SSO plan deficiencies and updates will be addressed. The plan performance will be checked typically on an ongoing basis, and therefore will be continually reviewed and updated.



Figure 8 - IEUA SSO Event Reporting Line

SSO Event Reporting Line

Regular Business Hours
Mon – Fri 7:30 AM – 5:00 PM
909.993.1600

After Hours Emergency Number
24 hrs, 7 days/week
909.920.1864

Craig Proctor
Collection Systems Supervisor
Work: 909.993.1645
Cell: 909.573.5709

Chris Berch
Manager of Planning & Environmental Compliance
Work: 909.993.1762
Cell: 909.732.1844

Jann Ritchie
Senior PMT
Cell: 909.732.2240

Alex Arguelles
PMT II
Cell: 909.936.0626

Richard Osborn
PMT II
Cell: 760.868.1847

Bill Archer
PMT II
Cell: 909.510.1723

Adolfo Zavala
PMT II
Cell: 909.239.4784

Oscar Quiroz
PMT II
Cell: 909.229.8989



Public Advisory Procedure

This subsection describes public advisory procedures, if required. In the event of an overflow, IEUA will determine the need to post notices (signage) in affected areas of polluted surface water bodies or ground surfaces in order to protect public health. Notices may only warn of potential public health risks due to sewage contamination, but do not necessarily prohibit the use of affected land or water for recreation, unless otherwise stated. All media inquiries are directed to the Agency's Public Information Officer.

Plan Update

This plan is dynamic in nature, and thus will be revised in conjunction with the member agencies and updated periodically so that it contains the latest emergency response procedures, contact information and associated equipment costs.

IEUA Compliance Documents

The following documents meet the Order requirement for this element.

- *Sanitary Sewer Overflow Unified Response Guidance Plan* – [Appendix 6-1](#)
- *Chain of Command for IEUA's Collections Crew* – [Appendix 6-2](#)



Element 7 - FOG Control Program

WDR Requirements Summary

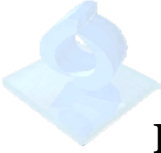
- a) An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG;
- b) A plan and schedule for the disposal of FOG generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of FOG generated within a sanitary sewer system service area;
- c) The legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG;
- d) Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- e) Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;
- f) An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and
- g) Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified in (f) above.

IEUA Compliance Summary

IEUA owns and operates the Regional Sewerage and Non-Reclaimable Wastewater Systems. These collection and conveyance systems are large diameter pipelines that form the drainage system for the member agencies sewer systems. As Each member agency has developed a FOG program that is tailored specifically to address their cities' needs including permitting and inspection of commercial and industrial dischargers as well as enforcement and public education and outreach programs, IEUA has determined that a formalized FOG Control Program is not needed.

However, IEUA has an Ordinance in place prohibiting excessive FOG discharges and has a cleaning and maintenance schedule for areas prone to FOG build-up such as siphons and pipeline sections with minimal slope

IEUA is also actively participating with member agencies to promote FOG control programs. One outreach is public education, which is accomplished through distribution of FOG literature including information on proper disposal of FOG. The literature addresses both commercial sources such as restaurants and residential sources as well.



IEUA Compliance Documents

Ordinance No. 82 governs the Regional Wastewater System. It was last approved in December 7, 2005. NRWS Ordinance No. 62 governs the Non-Reclaimable Wastewater System. It was last approved in November 5, 1997. Copies of these Ordinances are in [Appendix 3-3](#) and [Appendix 3-4](#). It is also available on the IEUA website:

<http://www.ieua.org/departments/pre/docs/RegionalWastewaterOrdinanceNo82.pdf>

A copy of this Ordinance is in It is also available on the IEUA website:

<http://www.ieua.org/departments/pre/docs/ordinanceno62final.pdf>



Element 8 - System Evaluation and Capacity Assurance Plan

WDR Requirements Summary

- a) **Evaluation:** Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;
- b) **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and
- c) **Capacity Enhancement Measures:** The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.
- d) **Schedule:** The Enrollee shall develop a schedule of completion dates for all portions of the capital improvement program developed in (a)-(c) above. This schedule shall be reviewed and updated consistent with the SSMP review and update requirements as described in Section D. 14.

IEUA Compliance Summary

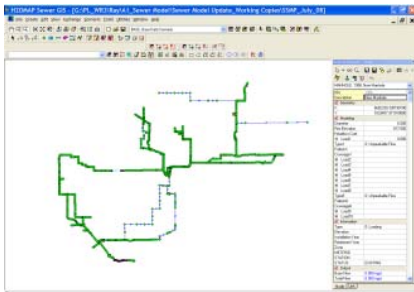
Evaluation

IEUA's system evaluation is carried out by performing flow monitoring of its regional trunk lines. For the Non-Reclaimable Wastewater System, any industry desiring to use the NRWS must first purchase capacity in the system and enter into a Capacity Right Agreement with the Agency. Once approved and after the issuance of an industrial wastewater discharge permit, flow monitoring is conducted and reported by the industry in monthly flow monitoring reports.



The Pretreatment Agreement between IEUA and its Member Agencies requires them to conduct flow monitoring and sampling at strategic locations and frequencies as described in *Exhibit A* of the agreement. These sites were selected to cover approx. 90-95% of the member agencies flow into the IEUA sewerage system. The results of this flow monitoring indicate that IEUA's regional trunk lines have sufficient transport capacity. Wastewater volumes are not expected to increase as new housing developments have decreased and water conservation measures are being aggressively implemented.

IEUA has an ESRI® Geographical Information System (GIS) by which all the sewer lines and manholes are identified in a database which is accessible to all IEUA users via intranet. IEUA's GIS also holds its member agencies' infrastructure data.



IEUA has MWH's H2OMap Sewer® software application which allows the sewer system capacity evaluation at any point. The software allows the use of "what-if" scenarios and identifies pipeline segments that could be deficient.

In addition, IEUA's collection system group has a truck equipped with CCTV camera and support equipment to assess the condition of pipelines and manholes.

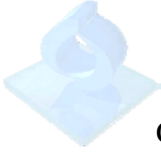
Design Criteria

IEUA's sewer infrastructure is designed by reputable engineering firms that provide consulting services. It is the consultant's duty to design the infrastructure using sound projections regarding population growth forecast and hydraulic needs.

Capacity Enhancement Measures

Existing hydraulic capacities will be enhanced in some areas to balance hydraulic loads to the various treatment plants. For example, the construction of the San Bernardino Pump Station (scheduled to be in operation in early 2009) will divert flows from the Northern Fontana area to Regional Plant No. 4, thus decreasing the load to Regional Plant No. 1.

Schedule



Capital Improvement Programs (CIP) are developed in conjunction with various IEUA departments as it involves capacity assurance, implementation, update and budget. This is then compiled into the Ten Year Capital Improvements Projects (TYCIP) and is the basis for all IEUA CIP.

IEUA Compliance Documents

The following overview GIS maps can be found in the appendix:

IEUA Service Area – [Appendix 8-1](#)

IEUA Regional Trunk Line System GIS Map – [Appendix 8-2](#)

IEUA Non-Reclaimable Wastewater System GIS Map – [Appendix 8-3](#)

IEUA Recycled Water System GIS Map – [Appendix 8-4](#)

H2OMap Sewer[®] Model – [Appendix 8-5](#)

H2OMap Sewer Hydraulic Simulation results – [Appendix 8-6](#)

NRW Capacities Drawing – [Appendix 8-7](#)

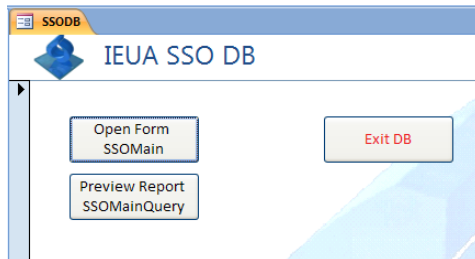


Element 9 - Monitoring, Measurement and Program Modifications

WDR Requirements Summary

- a) Maintain relevant information that can be used to establish and prioritize appropriate SSMP activities;
- b) Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP;
- c) Assess the success of the preventative maintenance program;
- d) Update program elements, as appropriate, based on monitoring or performance evaluations; and
- e) Identify and illustrate SSO trends, including: frequency, location, and volume.

IEUA Compliance Summary

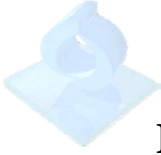


IEUA has been fortunate in that there have been very few SSO's within its service area and currently has no statistical data about its SSOs. However, in order to comply with this requirement, IEUA has developed a database to catalog and track SSMP activities. When appropriate, this database will be modified to

incorporate parameters that become necessary to better track SSOs. The database will store the following information at the least:

- Date & Time of SSO
- Location of SSO
- Volume of SSO
- Cause of SSO

The information thus collected will be used to evaluate the monitored parameters and to add/or modify parameters to eliminate, if possible, any SSO.



IEUA Compliance Documents

SSO tracking database



Element 10 - SSMP Program Audits

WDR Requirements Summary

As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the Enrollee's compliance with the SSMP requirements identified in this subsection (D.13), including identification of any deficiencies in the SSMP and steps to correct them.

IEUA Compliance Summary

IEUA's Environmental Compliance Department will conduct periodic audits of the SSMP to avoid any conflict of interest with other departments involved in the implementation and execution of the SSMP. The Environmental Compliance Department will use the data in the SSO activity and tracking database to perform statistical analysis to determine the effectiveness of the SSMP. Any parameter out of normal range will be investigated for deficiency and improvement. The database will provide a report on the following parameters/performance indicators:

- Number of SSO in past 12 months
- Volume of SSO
 - Volume of total SSO
 - Volume of SSO contained
- Causes of SSO
- Number of Stoppages
- Stoppages by cause
- Average Time to respond
- Capacity related SSO

In addition, Engineering, Construction Management and Collections crew will in a collaborate manner keep track on as- needed basis the

- Ratio of Planned vs. unplanned sewer cleaning
- Plans or activities to target specific problems
- Backlog of repairs, rehabilitations and replacement projects and

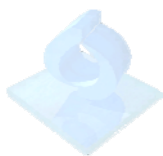
Figure 8 shows the Engineering and Construction Management Webpage (intranet)

Figure 9 - IEUA Engineering & Construction Management Webpage



IEUA Compliance Documents

IEUA Engineering and Construction Management Webpage (intranet)
SSO Activity Tracking database



Element 11 - IEUA Communication Program

WDR Requirements Summary

The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.

The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee's sanitary sewer system.

IEUA Compliance Summary

Pretreatment Committee

IEUA communicates on a regular basis with its Regional Contracting Agencies and the general public on the implementation and performance of this SSMP to provide input to the program as it is developed and implemented on a dynamic basis.



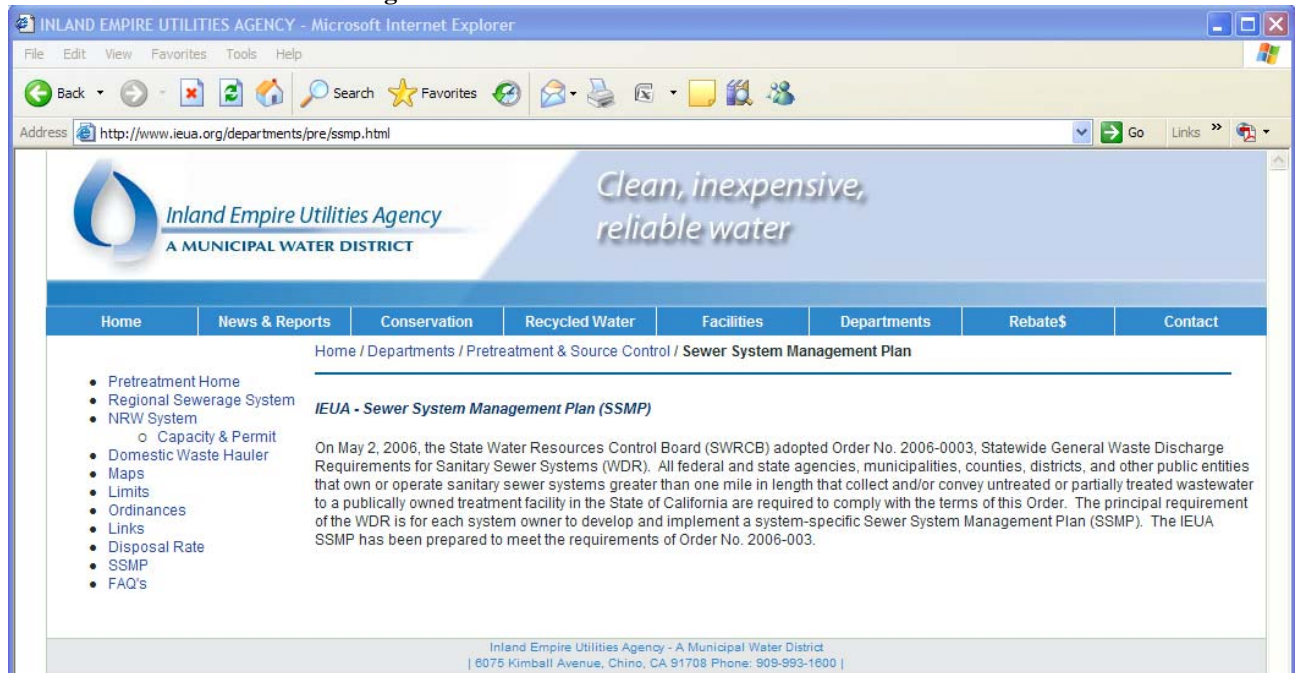
IEUA has complied with this requirement by conducting meetings, presentations, workshops, and utilizing IEUA's website as a resource for disseminating information as shown in *Figure 9*.

IEUA and member agency staff meets monthly as part of the Pretreatment Committee where general WDR progress and issues are discussed. The IEUA Collection System Group also sponsors semi-annual

workshops with all member agencies consisting of lectures and overviews of current issues as they relate to the effective maintenance and operation of the Agencies' collection systems. This training has proven to be invaluable and serves as an excellent tool for networking and teambuilding for IEUA and the RCAs.



Figure 10 - IEUA SSMP on the WWW



IEUA Compliance Documents

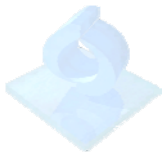
This document will be published in the IEUA website.

IEUA Public Information Officer:

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IEUA Member Agencies:

City of Chino Hills	Mike Maestas	(909) 364-2854
City of Montclair	Nicole Green	(909) 625-9446
City of Chino	Don Allinder	(909) 591-9850
Cucamonga Valley Water District (serving City of Rancho Cucamonga and part of City of Ontario)	Tere Worsham	(909) 987-2591
City of Fontana	Tony Mata	(909) 350-6772
City of Ontario	Alisa Y. Hasbrouck	(909) 395-2687
City of Upland	Robert Herbster	(909) 931-4267



List of Appendices

(Appendix numbers corresponds to SSMP Elements)

Appendix 1

Appendix 1-1 SWRCB Order No. 2006-003 (May 2, 2006).pdf
Appendix 1-2 SWRCB Order No. 2008-0002-EXEC (Feb 20, 2008).pdf

Appendix 2

Appendix 2-1 Concise Contact List In Case of Emergency SSO.pdf

Appendix 3

Appendix 3-1 SBC Board Approval of CBMWD (B2609_P234) 02653.pdf
Appendix 3-2 State of California Approval of CBMWD.pdf
Appendix 3-3 Regional Wastewater Ordinance No. 82.pdf
Appendix 3-4 Ordinance 62 NRWS (signed).pdf
Appendix 3-5 NRWS Rate Resolution No 2009-10-1.pdf

Appendix 4

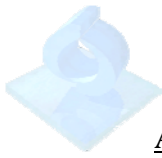
Appendix 4-1 SBC Stormwater-PLOT 04-2007.pdf
Appendix 4-2 EE&CM 1st Qtr FY0708.pdf
Appendix 4-3 Safety Training.doc
Appendix 4-4 IEUABudget_0708_10YRCIP_Vol2.pdf
Appendix 4-5 Parts Inventory List 080624.docx
Appendix 4-6 Parts Inventory Manhole covers Rev.docx

Appendix 5

Appendix 5-1 Exhibit6A - Standard Manhole Detail Updated.pdf
Appendix 5-2 Procedure for Recycled Water System Connections - Page 3
(RW-2).pdf
Appendix 5-3 Exhibit7A - Bedding & Backfill Detail - REVISED 2008.pdf

Appendix 6

Appendix 6-1 SSO-URGP 06-30-2008 (ver updated 061908).doc
Appendix 6-2 IEUA Collections Crew Chain of Command.docx
Appendix 6-3 IEUA SSO Event Reporting Line.docx



Appendix 7

None

Appendix 8

Appendix 8-1 IEUA Service Area Map.bmp
Appendix 8-2 IEUA Regional System Map.bmp
Appendix 8-3 IEUA NRW System Map.bmp
Appendix 8-4 IEUA Recycle Water System Map.bmp
Appendix 8-5 H2OMap Sewer Base Scenario.bmp
Appendix 8-6 H2OMap Sewer Hydraulic Simulation Output.bmp
Appendix 8-7 NRWS CAPACITY MAP - 2007.xls

Appendix 9

None

Appendix 10

None

Appendix 11

None

*** EOF ***