

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION**

**TENTATIVE MONITORING AND REPORTING PROGRAM NO. R8-2002-0014
FOR GENERAL WASTE DISCHARGE REQUIREMENTS
FOR
SEWAGE COLLECTION AGENCIES
IN ORANGE COUNTY**

This Monitoring and Reporting Program (MRP) establishes monitoring, recordkeeping, reporting and public notification requirements for Order No. R8-2002-0014, "General Waste Discharge Requirements for Sewage Collection Agencies in Orange County within the Santa Ana Region." Revisions to this MRP may be made at any time by the Executive Officer, and may include a reduction or increase in the monitoring and reporting.

A. DEFINITIONS

1. **Sanitary Sewer Overflow** - A sanitary sewer overflow (SSO) is any overflow, spill, release, discharge or diversion of wastewater from a sanitary sewer system. SSOs include:
 - (i) overflows or releases of wastewater that reach waters of the United States;
 - (ii) overflows or releases of wastewater that do not reach waters of the United States; and
 - (iii) wastewater backups into buildings and on private property that are caused by blockages or flow conditions in a sanitary sewer, other than a building lateral. Wastewater backups into buildings caused by a blockage or other malfunction of a building lateral that is privately owned is a SSO when sewage is discharged off of private property into streets, stormdrains, or waters of the State.
2. **Sanitary Sewer System** – Any system of pipes, pump stations, sewer lines, etc., used to collect and convey sewage to a treatment plant. Temporary storage and conveyance facilities (such as vaults, temporary piping, construction trenches, wet wells, impoundments, tanks, highlines, etc.) are considered to be part of the sanitary sewer system, and discharges of sewage to these facilities are not sanitary sewer overflows,

B. REPORTING REQUIREMENTS

1. If samples are collected, monitoring results must be reported on discharge monitoring report forms approved by the Executive Officer.
2. Records shall be maintained by the discharger for a minimum of five years from the date of the sample, measurement, report or application. This period may be extended during the course of any unresolved litigation regarding a discharge or when requested by the Regional Board Executive Officer.
3. All records shall be made available for review upon RWQCB staff's request.
4. All calibration and maintenance records. All monitoring instruments and devices that are used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy;
5. The discharger shall retain records of all SSOs, including, but not limited to:
 - a. All original strip chart recordings for continuous monitoring instrumentation;
 - b. Service call records and complaint logs of calls received by the discharger;
 - c. Spill calls;
 - d. Spill records;
 - e. Copies of all reports required by this Order;
 - f. The location of the overflow and the receiving water if any(street address or GPS coordinates);
 - g. An estimate of the volume of the overflow;
 - h. A description of the sewer system component from which the release occurred (e.g., manhole, constructed overflow pipe, crack in pipe);
 - i. The estimated date and time when the overflow began and when it stopped;
 - j. The cause or suspected cause of the overflow;
 - k. Steps that have been and will be taken to prevent the overflow from recurring and a schedule for those steps.
 - l. Work orders from the previous 3 years which are associated with responses and investigations of system problems related to sanitary sewer overflows;
 - m. A list and description of complaints from customers or others from the previous 3 years; and
 - n. Documentation of performance and implementation measures for the previous 3 years.

6. If monitoring is conducted of any SSO, records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical technique or method used; and,
 - f. The results of such analysis.
7. All monitoring reports shall be signed by an authorized person as required by Provision No. G.18.

C. SANITARY SEWER OVERFLOW REPORTING

1. All discharges of sewage that occur from the discharger's sanitary sewer system, that results in a discharge to a storm drain, drainage channel, and surface water body shall be immediately reported to the Regional Board as soon as the discharger's field staff is aware of the discharge, by telephone, voice mail, e-mail, or FAX.

Regional Board office hours are between the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding state holidays. Regional Board voice mail and Fax machine are on-line 24 hours a day, 7 days a week. Regional Board office has voice mail to enable 24 hour/7 days a week reporting at (909) 782-4130. Fax Number is (909) 781-6288.

2. The discharger shall report all SSOs using the attached Sanitary Sewer Overflow Report Form, or equivalent, within 5-days of the immediate notification. The information reported to the Regional Board in the initial telephone, voice mail, FAX, or e-mail report shall include, if known at the time:
 - a. The name and phone number of the person reporting the sanitary sewer overflow;
 - b. The responsible sanitary sewer system agency or private property owner;
 - c. An estimated date and time when the overflow began and when it stopped;

- d. Whether the sewage discharged to a storm drain or surface water body, how the spill was contained and treated, and how wash waters were disposed;
 - e. The estimated total sewer overflow volume, along with a description of how the volume was tabulated. (The discharger shall take photographs of the SSO for submittal as part of the quarterly report).
 - f. How much of the spilled sewage was returned to the system and how much of the wash waters and any water that has come into contact with the spilled sewage was returned to the sanitary sewer and how much sewage, wash water, and sewage contaminated water was discharged to waters of the State.
 - g. The location of the overflow and the location of the potential blockage or problem point. A description of the sewer system component from which the spill occurred. (e.g. manhole, constructed overflow pipe, crack in pipe);
 - h. The cause or suspected cause of the overflow;
 - i. A notation of whether or not the sewer overflow is still occurring at the time of the report;
 - j. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the overflow and a schedule of major milestones for those steps; and,
 - k. Confirmation that the local health services agency was or will be notified as required under the reporting requirements of the local health services agency.
3. Sanitary sewer overflows to storm drains tributary to Waters of the United States shall be reported as discharges to surface waters.
 4. The Discharger shall report all sanitary sewer overflows greater than 1,000 gallons to the Office of Emergency Services (OES), in accordance with California Water Code Section 13271.

Office of Emergency Services
Phone (800) 825-7550
Use the Fax for follow-up only.
Fax (916) 262-1677

5. The discharger shall submit monthly reports of all SSOs. The monthly report shall provide the following information for each SSO.
 - a. All the info requested in C. 2 and listed on Sanitary Sewer Overflow Form attached to Monitoring and Reporting Program No. R8-2002-0014;
 - b. How the SSO volume was tabulated;
 - c. Picture(s) of spill required in C.2 e;
 - d. Cause or suspected cause of the overflow. Choose all that apply from a list of standardized causes: infrastructure failure (specify leak, insufficient capacity, damaged/broken pipe), blockage (specify grease, roots, debris, vandalism, or identify which multiple causes), pump station failure, significant wet weather event, natural disaster, or other.
 - e. Where the spill entered into the storm drain inlet;
 - f. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the overflow, and a schedule of major milestones for those steps;
 - g. Steps taken or planned to mitigate the impact(s) of the overflow, and a schedule of major milestones for those steps.
 - h. Any additional correspondence and follow-up reports, as necessary, to supplement the Sanitary Sewer Overflow Report Form and to provide detailed information on cause, response, adverse effects, corrective actions, preventative measures, or other information.
 - i. Enter the data on a computer disk or spreadsheet attachment to email in the format described below for submission to the Regional Board at the end of the month.
 - j. An IBM-PC DOS compatible disk or email, containing the data described below on all sanitary sewer overflows for the month shall be submitted monthly with a certification statement described in Provision No. H.1 of Order R8-2002-0014.
 - k. The disk shall be 3 1/2 inch, double sided, high density formatted for 1.44 MB or a CD-ROM. The information submitted shall be fully compatible with Microsoft EXCEL version 5.0. In order to safeguard the integrity of the information submitted on disk against errors caused by accidental changes, all information should be write protected. This can be done with Microsoft EXCEL version 5.0 by choosing "Protection" from Tools Menu, and choosing "Protect Sheet". If more than one sheet is created, protect every sheet with the same password. Any form of data protection may be used which will allow Regional Board staff to open the file and copy the data to a new file. This procedure will safeguard the integrity of information submitted on computer disk to the Regional Board. An EXCEL template of the database will be supplied.
 - l. The disk shall be labeled with:
 1. The dischargers name;
 2. Monitoring and Reporting Program No.R8-2002-0014;
 3. The month and the year; and,

4. The software format.
 - m. Each sanitary sewer overflow shall be reported in a separate record in the file. Nonnumeric data shall be entered in capital and lower case letters.
 - n. The required fields for each record shall be in a format compatible with the SWRCB's SSO database.
6. A statement certifying that there were no sanitary sewer overflows for the quarter may be submitted in lieu of a floppy disk or email attachment.
7. Sanitary Sewer Overflow Summary Reports and certification statements shall be submitted to the Executive by the 30th day of the month following the spill reporting period. The first monthly summary report will be due July 30, 2002, for spills occurring during April through June 2002. Reports will be due monthly thereafter.
8. The discharger shall report SSOs resulting from pipe breaks, leaking sewer pipes and joints, and other subsurface discharges of sewage as part of the SSMP, based upon a methodology developed by the Steering Committee. Subsurface discharges of sewage, that reach the ground surface, shall be reported immediately, in accordance with C.1.
9. Monitoring and Reporting Program No. R8-2002-0014 is effective as of April 26, 2002.

Ordered by: _____

Gerard Thibeault
Executive Officer

Dated:

11. ESTIMATED OVERFLOW FLOW RATE: _____ (GALLONS PER MINUTE)

12. TOTAL OVERFLOW VOLUME: _____ (GALLONS)

13. DESCRIPTION OF HOW VOLUME WAS DETERMINED/CALCULATED, ATTACH PHOTOGRAPH(S)/DIAGRAM(S):

14. OVERFLOW VOLUME RECOVERED: _____ (GALLONS)

15. OVERFLOW VOLUME RELEASED TO ENVIRONMENT: _____ (GALLONS)

SANITARY SEWER OVERFLOW LOCATION AND DESCRIPTION:

16. STREET: _____

CITY: _____

ZIP CODE: _____

17. COUNTY: __ (SB, RV, OR)

18. SANITARY SEWER OVERFLOW STRUCTURE I.D.:

19. NUMBER OF OVERFLOWS WITHIN 1000 FT. OF THIS LOCATION IN PAST 12 MONTHS ____

20. DATES OF OVERFLOWS WITHIN 1000 FT OF THIS LOCATION IN PAST 12 MONTHS _____

21. OVERFLOW CAUSE --SHORT DESCRIPTION -- CIRCLE ONE

ROOTS

GREASE

LINE BREAK

INFILTRATION

ROCKS	BLOCKAGE	POWER FAILURE	PUMP STATION FAILURE
DEBRIS	VANDALISM	FLOOD DAMAGE	MANHOLE FAILURE
OTHER	UNKNOWN	CONSTRUCTION	PRIVATE PROPERTY

22. OVERFLOW CAUSE -- DETAILED DESCRIPTION OF CAUSE

23. SANITARY SEWER OVERFLOW CORRECTION -- DESCRIPTION OF ALL PREVENTATIVE AND CORRECTIVE MEASURES TAKEN OR PLANNED.

24. WAS THERE MEASURABLE PRECIPITATION DURING 72-HOUR PERIOD PRIOR TO THE OVERFLOW? ___ (Y OR N)

INITIAL AND SECONDARY RECEIVING WATERS:

25. DID THE SANITARY SEWER OVERFLOW ENTER A STORM DRAIN? ___

(Y OR N)

26. DID THE SANITARY SEWER OVERFLOW REACH SURFACE WATERS
OTHER THAN A STORM DRAIN? ___ (Y OR N)

27. NAME OR DESCRIPTION OF INITIAL RECEIVING WATERS. (IF NONE, TYPE
NONE)

28. NAME OR DESCRIPTION OF SECONDARY RECEIVING WATERS. (IF NONE,
TYPE NONE)

29. IF THE SANITARY SEWER OVERFLOW DID NOT REACH SURFACE WATERS,
DESCRIBE THE FINAL DESTINATION OF SEWAGE.

NOTIFICATION:

30. WAS THE LOCAL HEALTH SERVICES AGENCY NOTIFIED? ___ (Y OR N)

31. IF THE OVERFLOW WAS OVER 1,000 GALLONS, WAS THE OFFICE OF
EMERGENCY

SERVICES (OES) NOTIFIED? ___ (Y or N) (NOT APPLICABLE, ENTER NA)

AFFECTED AREA POSTING:

32. WERE SIGNS POSTED TO WARN OF CONTAMINATION? ___ (Y OR N)

33. LOCATION OF POSTING (IF POSTED): _____

34. HOW MANY DAYS WERE THE WARNING SIGNS POSTED? _____

35. WERE SAMPLES OBTAINED OF CONTAMINATED WATER? (ATTACH
RESULTS)

36.REMARKS:

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION**

TENTATIVE ORDER NO. R8-2002-0014

GENERAL WASTE DISCHARGE REQUIREMENTS

**FOR
SEWAGE COLLECTION AGENCIES IN
ORANGE COUNTY
WITHIN THE SANTA ANA REGION**

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that:

1. The following federal agencies, municipalities, counties, districts or other public bodies, which own or have responsibilities for sanitary sewer collection systems or any facilities that collect or convey untreated sewage wastewater in the portions of Orange County within the Santa Ana Region, are named as dischargers (or permittees) in this Order. Since most of these dischargers are tributary to the Orange County Sanitation District (OCSD), the OCSD may lead a steering committee for all other entities tributary to OCSD, to facilitate compliance by each discharger with the requirements of this Order.

City of Anaheim	City of Newport Beach
City of Brea	City of Orange
City of Buena Park	City of Placentia
Costa Mesa Sanitary District	Rossmoor/Los Alamitos Area Sewer District
City of Cypress	City of Santa Ana
City of Fountain Valley	City of Seal Beach
City of Fullerton	City of Stanton
Garden Grove Sanitary District	Sunset Beach Sanitary District
City of Huntington Beach	County of Orange Unincorporated Area 7
City of La Palma	City of Villa Park
Irvine Ranch Water District	City of Yorba Linda

City of La Habra	Yorba Linda Water District
Orange County Sanitation District (OCSD)	Midway City Sanitation District
City of Los Alamitos	El Toro Water District
U.S. Air Force Reserve Center Los Alamitos	Joint Forces Training Base Los Alamitos
Marine Corps Air Station El Toro/Tustin	Naval Weapons Station Seal Beach

2. A sanitary sewer system is a sewage wastewater collection system including sewers, pipes, pumps, or other conveyances that convey sewage wastewater (e.g. domestic, commercial, and industrial wastewaters) to a sewage treatment plant. This order prohibits the discharge of sewage from collections system that result in a discharge of sewage to surface waters of the State. A sanitary sewer system overflow (SSO), or sewage spill, is each instance of a discharge of sewage from a sanitary sewer system. If these discharges of sewage from any sewage spill or SSO are not fully contained and cleaned up, and there is a discharge of sewage to surface waters of the State, or the SSO causes a nuisance, it is a violation of this order, Sections 13260 and 13376 of the California Water Code, and Section 301 of the Clean Water Act. The discharges of sewage from a sanitary sewer system, that are fully contained above ground, and do not create a nuisance or result in a discharge of sewage to waters of the State, are not subject to the Prohibition A.1 of this order. Sewage discharged from a collection system that result in a discharge of sewage to an enclosed storm drain pipe, and not discharged to surface waters, are not considered discharges to surface waters in terms of this order, except that these sewage discharges shall be reported in the same manner as a sewage discharged to surface waters and the discharger is required to demonstrate that the sewage was not discharged from the storm drain to surface waters. Sewage discharged to open drainage channels, whether natural, man made, or concrete lined, are considered to be discharges of sewage to surface waters of the State. The order also requires the discharger to develop and implement a plan to address subsurface discharges of sewage to ground waters of the State. Temporary storage and conveyance facilities (such as vaults, temporary piping, construction trenches, wet wells, impoundments, tanks, highlines, etc.) are considered to be part of the sanitary sewer system, and discharges of sewage to these facilities are not sanitary sewer overflows, provided that sewage from these facilities is not discharged to waters of the State.

3. Sanitary sewer overflows (SSOs) consist of varying mixtures of domestic sewage, and industrial and commercial wastewater depending on the pattern of land uses in the sewage collection system tributary area. SSOs often contain high levels of suspended solids, pathogenic organisms, toxic pollutants, nutrients, oxygen demanding organic compounds, oil and grease and other pollutants. SSOs may cause a nuisance, cause temporary exceedances of applicable water quality standards when the sewage is discharged to surface waters of the State, pose a threat to the public health, adversely affect aquatic life, and impair the public recreational use and aesthetic enjoyment of surface waters. Section 13050(m) of the California Water Code defines a nuisance as anything that meets the following requirements: (1) Is injurious to health, or is indecent to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property. (2) Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal. (3) Occurs during, or as the result of, the treatment or disposal of waste.
4. SSOs are a frequent occurrence in the portions of Orange County within the Santa Ana Region. The chief causes of sanitary sewer overflows in Orange County include grease blockages, root blockages, sewer line flood damage, manhole structure failures, vandalism, pump station mechanical failures, power outages, storm or ground water inflow/infiltration, debris blockages, collection system age and construction material failures, lack of proper operation and maintenance, lack of capacity and contractor caused damages. Most of these SSOs are preventable with adequate and appropriate source control measures and operation and maintenance of the sewage collection system.
5. In Orange County, from January 1, 2000 through August 30, 2001, there were approximately 250 SSOs. SSOs from publicly owned sewage collection systems accounted for almost 75% of these sewage spills, with the remainder occurring on private property. On 31 occasions during this time period, beach waters were closed to body contact recreation resulting in a loss of 16.5 beach mile days (beach mile days = miles of beach X number of days of closure) of beneficial uses. Seventeen of these beach water closures were caused by sewage spills from systems owned by public agencies, and the other 14 closures resulted from sewage spills on private property that were not contained and resulted in a discharge to waters of the State. Areas where beach water was closed to body contact recreation include portions of Seal Beach, Sunset Beach, Huntington Beach, Newport Beach, Crystal Cove State Park, Newport Bay, and Huntington Harbor. Many of these SSOs that caused beach water closures also caused violations of water quality standards in other surface water bodies, such as the San Gabriel

River, Coyote Creek, San Diego Creek and other surface water bodies in Orange County.

6. The beach water closures occur when sewage is present, and warnings are posted when any water quality standard is exceeded (postings). Therefore, warning signs are posted at storm drain outlets to the ocean during storm events along the beach (during the AB411 period April 1st through October 31st) otherwise a rainfall advisory is issued for all storms. During the January 1, 2000 through August 30, 2001 period, the Orange County Health Care Agency (OCHCA) also posted many of the same beach areas warning the public that concentrations of indicator bacteria at one of OCHCA's monitoring stations exceeded the State health standards. In addition to SSOs, urban runoff and storm water generally contain elevated levels of bacteria. Therefore, warning signs are posted at storm drain outlets to the ocean during storm events along the beach when the California Department of Health Service's Beach Sanitation Standards are exceeded, otherwise a rainfall advisory is issued by the Orange County Health Care Agency for all storms., The OCHCA has posted notices of exceedances of water quality objectives that has resulted in 99.4 beach mile days of violations of water quality standards during January through August 2001.
7. A revised "Water Quality Control Plan for the Santa Ana River Basin (8)" (hereinafter Basin Plan) became effective on January 24, 1995. The Basin Plan designates beneficial uses, narrative and numerical water quality objectives, and prohibits certain types of discharges. The Basin Plan establishes body contact recreation as a beneficial use of the Pacific Ocean and all surface water bodies within Orange County, including Serrano Creek, San Diego Creek, Bonita Creek, Santa Ana Delhi Channel, the Santa Ana River, Talbert Marsh, Newport Bay, Huntington Harbor, Newport Slough. The Basin Plan also includes a numeric water quality objective for coliform to protect and maintain this beneficial use. The coliform objective is specified as a 30-day geometric mean of no more than 200 MPN/100 ml of fecal coliform. The Basin Plan also includes, by reference, the California Ocean Plan standards for ocean waters in the Region.
8. The Basin Plan contains the following prohibition:

“The discharge of untreated sewage to any surface water stream, natural or man-made, or to any drainage system intended to convey storm water runoff to surface water streams, is prohibited.”
9. California Water Code Section 13243 provides that a Regional Board, in waste discharge requirements, may specify certain conditions or areas where the discharge of waste, or certain types of waste, is not permitted. The requirements

specified in this order are consistent with the Basin Plan prohibition and Water Code Section 13243.

10. The issuance of a single general waste discharge requirement to the dischargers will:
 - a) Reduce the administrative burden of issuing individual waste discharge requirements to each discharger; and
 - b) Provide for a unified regional approach for the reporting and database tracking of sanitary sewer overflows.
 - c) To provide consistent and uniform standards of performance, operations, and maintenance of sewage collections systems.
 - d) Assembly Bill 285 was adopted on October 4, 2001. These requirements are consistent with the State Water Resources Control Board's reporting requirements in AB 285.
 - e) The State Water Resources Control Board Office of Chief Counsel issued a questions and answers paper on April 17, 2001 stating that SSOs are not subject to minimum mandatory penalties." However, the California Water Code provides for penalties for unauthorized discharges.
11. This project involves a prohibition of discharge, and as such, is exempt from the provisions of the California Environmental Quality Act, in accordance with Title 14, California Administrative Code, Chapter 3, Section 15308.
12. The Regional Board has notified the dischargers and all known interested parties of the intent to prescribe waste discharge requirements to prohibit unauthorized discharges from sanitary sewer systems.
13. The Regional Board has, at a public meeting on April 26, 2002 heard and considered all comments pertaining to the terms and conditions of this Order.

IT IS HEREBY ORDERED, that the dischargers, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. PROHIBITIONS

1. The discharge of untreated sewage to any surface water stream, natural or man-made, or to any drainage system intended to convey storm water runoff to surface water streams, is prohibited.
2. The discharge of chlorine, or any other toxic substance used for disinfection and cleanup of sewage spills, to any surface water body is prohibited. (This prohibition does not apply to the chlorine in the potable water used for final wash down and clean up of sewage spills.)

B. IMPLEMENTATION AND ENFORCEMENT OF PROHIBITION A.1

1. In any enforcement action the Regional Board will consider the efforts of the discharger to contain, control, and clean up sewage spills from its collection system as part of its consideration of the factors required by Section 13327 of the California Water Code. The discharger shall make every effort to contain sewage spilled from their collection systems and prevent the sewage from entering storm drains and surface water bodies. The discharger shall also make every effort to prevent sewage from discharging from storm drains into flood control channels and open ditches by blocking the storm drainage system and by removing the sewage from the storm drains. The use of the storm drain pipe system to contain the sewage by blocking the drain pipes, and recovering and cleaning up the spilled sewage, in order to prevent the sewage from being discharged to a surface water body, is not a violation of Prohibition A.1.

C. PROVISIONS

1. The discharger must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for enforcement action.
2. Discharges Caused by Severe Natural Conditions – The Regional Board may take enforcement action against the permittee for any sanitary sewer system discharge caused by natural conditions, unless the permittee demonstrates through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (i) the discharge was caused by severe natural conditions (such as hurricanes, tornadoes, flooding, earthquakes, tsunamis, and other similar natural conditions);
 - (ii) there were no feasible alternatives to the discharge, such as retention of untreated wastewater, reduction of inflow and infiltration, use of adequate backup equipment, or an increase in the capacity of the system. This provision is not

satisfied if, in the exercise of reasonable engineering judgment, at the time that the facilities were planned, the discharger should have installed auxiliary or additional collection system components, wastewater retention, adequate back-up equipment or should have reduced inflow and infiltration. This provision is also not satisfied if the agency does not undergo a periodic or continuing planning process to identify and correct problems.

3. Discharges Caused by Other Factors - For SSOs other than those covered under this section, the permittee may establish an affirmative defense to an action brought for noncompliance if the permittee demonstrates through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (i) the permittee can identify the cause or likely cause of the discharge event;
 - (ii) the discharge was exceptional, unintentional, temporary and caused by factors beyond the reasonable control of the permittee;
 - (iii) the discharge could not have been prevented by the exercise of reasonable control, such as proper management, operation and maintenance; adequate treatment facilities at OCSD's two regional treatment plants or collection system facilities or components (e.g., adequately enlarging treatment or collection facilities to accommodate growth or adequately controlling and preventing infiltration and inflow); preventive maintenance; or installation of adequate backup equipment; and
 - (iv) the permittee took all reasonable steps to stop, and mitigate the impact of, the discharge as soon as possible.
4. Burden of proof - In any enforcement proceeding, the permittee has the burden of proof to establish that the criteria in this section have been met.
5. In an enforcement action, it shall not be a defense for the discharger that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with this Order.
6. Upon reduction, loss, or failure of the sanitary sewer system resulting in a sanitary sewer overflow, the discharger shall, to the extent necessary to maintain compliance with this Order, take any necessary remedial action to 1) control or limit the volume of sewage discharged, 2) terminate the sewage discharge as rapidly as possible, and 3) recover as much of the sewage discharged as possible for proper disposal, including any wash down water. The dischargers shall implement all remedial actions to the extent they may be applicable to the discharge, including the following:

- a. Interception and rerouting of sewage flows around the sewage line failure;
 - b. Vacuum truck recovery of sanitary sewer overflows and wash down water;
 - c. Cleanup of debris of sewage origin at the overflow site.
7. The discharger shall properly fund, manage, operate and maintain, with adequately trained staff and/or contractors possessing adequate knowledge skills and abilities as demonstrated through a validated program at all times, all parts of the sewage collection system owned and/or operated by the discharger.
8. The discharger shall provide adequate capacity to convey base flows and peak flows, including wet weather related events to the minimum design criteria as defined in the discharger's System Evaluation and Capacity Assurance Plan, for all parts of the collection system owned or operated by the discharger.
9. The discharger shall take all feasible steps to stop, and mitigate the impact of, sanitary sewer overflows in portions of the collection system owned or operated by the discharger.
10. The discharger shall provide notification to the OCHCA and the Regional Board so that they can notify parties with a reasonable potential for exposure to pollutants associated with the SSO.
11. The discharger shall develop and implement a written plan, a Sewer System Management Plan (SSMP), for compliance with these waste discharge requirements and make it available to any member of the public upon request in writing.
12. The essential elements of the SSMP are specified below. If the discharger believes that any element of this section is not appropriate or applicable for their SSMP program, the program does not need to address it, but the SSMP must explain why that element is not applicable. The Regional Board will consider the quality of the SSMP, its implementation and effectiveness in any relevant enforcement action, including, but not limited to, any enforcement action for violation of the Clean Water Act, the Basin Plan prohibition, or these waste discharge requirements. The SSMP must include the following components, with the exception of non-applicable components, as discussed above:

Sewer System Management Plan (SSMP)

(i) **Goals:** The main goal of the SSMP is to prevent SSOs and to provide a plan and schedule for measures to be implemented to prevent SSOs.

(ii) **Organization:** The SSMP must identify:

(A) Administrative and maintenance positions responsible for implementing measures in the SSMP program, including lines of authority by organization chart or similar document; and

(B) The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the Regional Water Quality Control Board, Orange County Health Care Agency, and State Office of Emergency Services (OES), if the discharge is 1,000 gallons or larger.

(iii) **Legal Authority:** The SSMP shall include legal authority, through sewer use ordinances, service agreements or other legally binding procedures, to:

(A) Control infiltration and connections from inflow sources, including satellite systems;

(B) Require that sewers and connections be properly designed and constructed;

(C) Ensure proper installation, testing, and inspection of new and rehabilitated sewers (such as new or rehabilitated collector sewers and new or rehabilitated service laterals);

(D) Limit fats and greases and other debris that may cause blockages in the sewage collection system.

(E) Implement the general and specific prohibitions of the national pretreatment program under 40 CFR 403.5.

(iv) **Measures and Activities.** In order to provide an adequate and appropriate SSO reduction plan, the SSMP must address the elements listed below that are appropriate and applicable to the discharger's system and identify the person or position in the organization responsible for each element:

(A) Provide adequate operation and maintenance of facilities and equipment;

(B) Maintain an up-to-date map of the collection system showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and stormwater conveyance facilities;

(C) Maintain relevant information to establish and prioritize appropriate SSMP activities (such as the immediate elimination of dry weather overflows or overflows into sensitive waters, such as public drinking water supplies and their source waters, swimming beaches and waters where swimming occurs, shellfish beds, designated Outstanding National Resource Waters, National Marine Sanctuaries, waters within Federal, State, or local parks, and water containing threatened or endangered species or their habitat), and identify and illustrate trends in overflows, such as frequency and volume;

(D) Routine preventive operation and maintenance activities by staff and contractors; including a system for scheduling regular maintenance and cleaning of the collection system with more frequent cleaning and maintenance targeted at known problem areas. The Preventative Maintenance (PM) program should have a system of tracking work orders and assessing the success of the PM program.

(E) Establish a program to assess the current capacity of the collection system owned by the discharger or where the discharger has operational control; including diversions of urban runoff to the sewer system during dry weather periods and control of infiltration and intrusion during both wet weather events and dry weather periods;

(F) Identify and prioritize structural deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. This shall include a rehabilitation plan including schedules for the entire system. As with the PM program, sewer rehabilitation and replacement is crucial for the prevention of spills. Among the provisions that should be specified in this section is the need to direct rehabilitation and replacement at sewer pipes which are at risk of collapse or prone to more frequent blockages due to pipe defects. The program should also include regular visual and TV inspection of sewer pipes and a system for assessing and ranking the condition of sewer pipes. Finally, the rehabilitation and replacement plan should include a financial plan that properly manages and protects the infrastructure assets.

(G) Provide training on a regular basis for staff in collection system operations, maintenance, and monitoring and determine if contractors' staffs are appropriately trained;

(H) Provide equipment and replacement parts inventories, including identification of critical replacement parts.

(I) Establish an implementation plan and schedule for a public education outreach program that promotes proper disposal of grease and fats.

(J) In accordance with the County of Orange's Drainage Area Management Plan, establish a plan for responding to SSOs from private property that discharge to public right of ways and storm drains, to prevent discharges from SSOs to surface waters and storm drains; and

(K) Develop a plan and a schedule for providing an analysis of alternative methods of disposal for grease and fats, and an implementations plan and schedule for providing adequate disposal capacity for grease and fats generated within the sewer system service area. This plan shall include an evaluation of the feasibility of using sludge digesters at the OCSD treatment plant for grease disposal and treatment, recycling, rendering, and other disposal alternatives.

(v) Design and Performance Provisions:

(A) Develop design and construction standards and specifications for the installation of new sewer systems, pump stations and other appurtenances; and rehabilitation and repair of existing sewer systems; and

(B) Develop procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

(vi) Monitoring, Measurement and Program Modifications

(A) Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP;

(B) Update program elements, as appropriate, based on monitoring or performance evaluations; and

(C) Modify the SSMP program, as appropriate, to keep it updated and accurate and available for audit at all times.

(vii) Overflow Emergency Response Plan - The dischargers shall develop and implement an overflow emergency response plan that identifies measures to protect

public health and the environment. At a minimum, this plan should include the following:

(A) Ensure proper notification procedures so that the primary responders are informed of all SSOs in a timely manner (to the greatest extent possible)

(B) Ensure that all overflows (including those that do not discharge to waters of the State) are appropriately responded to, including ensuring that reports of overflows are immediately dispatched to appropriate personnel for investigation and appropriate response;

(C) Ensure immediate notification health agencies and other impacted entities (e.g., water suppliers) of all overflows. Report all SSOs to the Regional Water Quality Control Board and the Orange County Health Care Agency, and report to the State OES, if the overflow is 1,000 gallons or larger. The SSMP should identify the public health agency and other officials who will receive immediate notification;

(D) Ensure that appropriate staff and contractor personnel are aware of and follow the plan and are appropriately trained;

(E) Provide emergency operations, such as traffic and crowd control and other necessary emergency response; and

(F) Take all reasonable steps to contain sewage and prevent sewage discharges to surface waters and 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.

(G) Develop and implement a plan for the use of portable aerators where complete recovery of the sanitary sewer overflows is not practicable and where severe oxygen depletion in existing surface waters is expected.

(H) Develop and implement a plan to respond in a timely manner to spills and other emergencies. Collection system staff should be able to respond to a sewage spill in less than an hour from the first call. The system should be capable of meeting this response time day or night, every day of the week. The system must own or have ready access to spill and emergency response equipment such as vacuum trucks, hydroflushers, pumps, temporary bypass hoses, and portable generators.

(viii) **Fats, Oils, and Grease Control Program:** Prepare and implement a grease,

fat, and oil source control program to reduce the amount of these substances discharged to the sewer collection system. This plan shall include the legal authority to prohibit discharges to the system and identify measures to prevent SSOs caused by fats, oils, and grease blockages of sewers. The elements of an effective grease control program may include requirements to install grease removal devices (such as traps or, preferably, interceptors), design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements. An effective grease control program must also include authority to inspect grease producing facilities, enforcement authorities, and sufficient staff to inspect and enforce the grease ordinance.

(A) The grease control program shall identify sections of the sewer system subject to grease blockages and establish a cleaning maintenance schedule for each section; and

(B) The program shall develop and implement source control measures, for all sources of grease and fats discharged to the sewer system, for each section identified in (A) above.

(ix) **System Evaluation and Capacity Assurance Plan:** Prepare and implement a capital improvement plan that will provide hydraulic capacity of key sewer system elements under peak flow conditions. At a minimum, the plan must include:

(A) **Evaluation:** Steps to evaluate those portions of the collection system which 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) **Capacity Enhancement Measures:** Establish a short- and long-term capital improvement program to address identified hydraulic deficiencies including prioritization, alternatives analysis, and schedules; and

(C) **Plan updates:** The plan must be updated, at a minimum annually, to describe any significant change in proposed actions and/or implementation schedules. The updates should include available information on the performance of measures that have been implemented.

(x) **SSMP Program Audits** - As part of the SSMP, the permittee shall conduct an internal audit, appropriate to the size of the system and the number of overflows, and submit a report of such audit, evaluating the SSMP and its compliance with this subsection, including its deficiencies and steps to respond to them.

(xi) **Communications**: - The discharger should communicate on a regular basis with interested parties on the implementation and performance of its SSMP. The communication system should allow interested parties to provide input to the discharger as the program is developed and implemented.

13. The discharger shall develop and implement the SSMP according to the following schedule.

Sewer System Management Plan Time Schedule

Task	Completion Date
Monitoring and Reporting Program No. 01-99	Effective on Adoption
SSMP Development Plan and Schedule	September 30, 2002
SSO Emergency Response Plan	January 1, 2003
Preventative Maintenance Program	June 15, 2003
Legal Authority	July 30, 2004
Grease Disposal Alternatives	December 30, 2004
Grease Control Program	December 30, 2004
Capacity Evaluation	July 30, 2005
Sewer Rehabilitation Plan for Entire System	September 30, 2005
Final SSMP	September 30, 2005

C. PERMIT AVAILABILITY

1. A copy of this Order shall be maintained at appropriate locations and shall be available to sanitary sewer system operating and maintenance personnel at all times.

D. ENTRY AND INSPECTION

1. The discharger shall allow the Regional Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any location.

E. GENERAL MONITORING AND REPORTING REQUIREMENTS

1. The discharger shall furnish to the Executive Officer, within a reasonable time, any information which the Executive Officer may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The discharger shall also furnish to the Executive Officer, upon request, copies of records required to be kept by this Order.
2. Pursuant to California Water Code Section 13267(b), the discharger shall comply with the attached Monitoring and Reporting Program No.R8-2002-0014 and future revisions thereto, as specified by the Executive Officer. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. R8-2002-0014.
3. Any person who, without regard to intent or negligence, causes or permits any sewage or other waste to be discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State, as soon as that person has knowledge of the discharge, shall immediately notify the local health officer and the Regional Board of the

discharge. Discharges of sewage to storm drains and drainage channels, whether man made or natural or concrete lined, shall be reported as required above. All SSOs greater than 1,000 gallons shall be reported to the Office of Emergency Services. The discharger shall propose, as part of its SSMP, a plan and schedule for reporting and evaluating subsurface discharges of sewage from its sewage collection system.

F. CHANGE IN OWNERSHIP

1. This Order is not transferable to any person, except after notice to the Executive Officer. The discharger shall submit this notice in writing at least 30 days in advance of any proposed transfer. The notice must include a written agreement between the existing and new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the existing discharger and the new discharger. This agreement shall include an acknowledgement that the existing discharger is liable for violations up to the transfer date and that the new discharger is liable from the transfer date on.

G. INCOMPLETE REPORTS

1. Where the discharger becomes aware that it failed to submit to the Regional Board any relevant facts in any report required under this Order, it shall promptly submit such facts or information.

H. REPORT DECLARATION

1. All applications, reports, or information (except for 24 hour Sanitary Sewer Overflow Reports) submitted to the Executive Officer shall be signed and certified as follows:
 - a. All reports, including disks, (except for preliminary Sanitary Sewer Overflow Reports submitted as soon as possible) required by this Order and other information required by the Executive Officer shall be signed and certified by a person designated, for a municipality, state, federal or other public agency, by either a principal executive officer or ranking elected official, or by a duly authorized representative of that person, as described in paragraph b. of this provision.
 - b. An individual is a duly authorized representative only if:

- (1) The authorization is made in writing by a person described in paragraph a. of this provision;
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity; and
 - (3) The written authorization is submitted to the Executive Officer.
- c. Any person signing a document under this provision shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direct supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

I. REGIONAL BOARD ADDRESS

1. The discharger shall submit reports required under this Order, or other information required by the Executive Officer, to:

Executive Officer
Santa Ana Regional Board
3737 Main Street, Suite 500
Riverside, CA 92501-3348
Phone No.(909-) 782-4130
Fax No.(909) 781-6288

J. CIVIL MONETARY REMEDIES FOR DISCHARGE VIOLATIONS

1. The California Water Code provides that any person who violates this Order is subject to civil monetary remedies.
2. The California Water Code also provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order, or

falsifying any information provided in the technical or monitoring reports is also subject to civil monetary penalties.

K. SEVERABILITY

1. The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.
2. This order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from liability under federal, state or local laws, nor create a vested right for the discharger to continue the waste discharge.

L. ORDER

1. This order becomes effective on the date of adoption by the Regional Board. This order and monitoring and reporting program supersedes all reporting requirements for sanitary sewer overflows at any point upstream of the sewage treatment plant for agencies and facilities with waste discharge requirements, as listed in the attached Table A.

I, Gerard J. Thibeault, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on April 26, 2002.

Gerard J. Thibeault
Executive Officer