

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

**REVISED MONITORING AND REPORTING PROGRAM NO. 91-03
FOR**

**GOLETA SANITARY DISTRICT
PRODUCER OF RECLAIMED WATER,
SANTA BARBARA COUNTY**

INFLUENT MONITORING

A sampling station shall be established at the point of inflow to the water reclamation plant where representative samples of the influent can be obtained. The following shall constitute the influent monitoring program:

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>
Daily Flow Volume	gal/day	Metered
Maximum Daily Flow	gal/day	---
Mean Daily Flow	gal/day	Calculated

RECLAIMED WATER MONITORING

A sampling station shall be established where representative samples of the reclaimed water can be obtained prior to discharge to the reclaimed water storage tanks. The following shall constitute the reclaimed water monitoring program

<u>Parameter</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Sampling and Analyzing Frequency</u>
¹ Turbidity	NTU	Metered	Continuous
² Chlorine Residual	mg/l	Metered	"
Total Coliform Organisms	MPN/100ml	Grab	Daily
Settleable Solids	ml/l	Grab	"
pH	pH Units	Grab	"
Biochemical Oxygen Demand, 5-Day	mg/l	24 hr. Composite	Monthly
Total Non-Filterable Residue (Suspended Solids)	mg/l	24 hr. Composite	Five days per week
Total Dissolved Solids	mg/l	24 hr. Composite	Quarterly (Jan, Apr, Jul, Oct)
Cadmium	mg/l	24 hr. Composite	Semi-Annually (April & Oct.)
Lead	mg/l	24 hr. Composite	"

¹ Report daily maximum and daily mean values. In reporting turbidity, the amount of time that 5 NTU was exceeded each day shall be reported. Turbidity samples shall be obtained after filtration and before reclaimed water enters the chlorine contact chamber.

² Report daily maximum and daily minimum values. Compliance shall be determined by daily minimum values measured within the zone at the end of the chlorine contact chamber.

REPORTING

Reports shall be submitted by the 20th day of the month and shall include (for previous month):

1. Results of influent and reclaimed water monitoring;
2. Monitoring for incidental uses (i.e., construction uses and irrigation of landscaping at the wastewater treatment plant) to include: monthly quantity (gallons) of reclaimed water used, name of user, and location of use;
3. A summary of operational problems, plant and equipment malfunctions, and any diversion of reclaimed water to the Goleta Sanitary District Wastewater Treatment Plant;
4. A record of equipment or process failures initiating an alarm, as well as any corrective and preventative measures taken; and,
5. A record of any employee or User training.

ORDERED BY Medley E. Arguman
FOR Executive Officer
5/16/96
Date

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5414

ORDER NO. 91-03

WATER RECLAMATION REQUIREMENTS
FOR
GOLETA SANITARY DISTRICT
PRODUCER OF RECLAIMED WATER.
SANTA BARBARA COUNTY

The California Regional Water Quality Control Board, Central Coast Region, (hereafter Board), finds:

1. Felix Martinez, General Manager, filed a Report of Waste Discharge on August 23, 1990, and supplemental information was received on January 30, 1991, in accordance with Section 13522.5 of the California Water Code. The report was filed on behalf of the Goleta Sanitary District for authorization to operate water reclamation facilities for the purpose of delivering reclaimed water within the South Coast Sub-basin, Goleta sub-area.
2. The Goleta Sanitary District (hereafter Producer), proposes to operate water reclamation facilities for the purpose of distributing reclaimed water for landscape irrigation in the Goleta Water District (hereafter User) service area. The User of reclaimed water is regulated by separate water reclamation requirements.
3. Reclamation facilities will be located at the Producer's Wastewater Treatment Plant site at 1000 Fowler Road, Goleta, CA 93116. The facilities are in T4N, R28W, Section 17, SB B&M, as shown on Attachment "C" of this Order.
4. Up to 3.0 million-gallons-per-day (11,400 m³/day) of reclaimed water will be produced. The reclamation facility will consist of coagulation, flocculation, filtration, chlorination, and reclaimed water storage. Wastewater will be reclaimed on landscape irrigation reuse sites shown listed on Attachments "A" and "B" and shown on Attachments "C" through "E". In addition, incidental uses include construction uses for dust control and compaction and irrigation of landscaping at the wastewater treatment plant. Design treatment capacity is 3.3 million-gallons-per-day (12,500 m³/day).
5. The Producer currently discharges approximately 4.1 million-gallons-per-day of primary/secondary blended effluent to the Pacific Ocean through a 5,800-foot outfall/diffuser system. This discharge is regulated by a separate NPDES permit (Order No. 85-69). Current discharge flow is below normal due to drought conditions and resulting strict water rationing.
6. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan) was adopted by the Board on November 17, 1989. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters.
7. Present and anticipated beneficial uses of ground water in the vicinity of the reuse sites include:

- a. Domestic and Municipal Supply;
 - b. Agricultural Supply; and
 - c. Industrial Supply.
3. A ground water study was conducted in December 1990, to determine what impacts, if any, application of reclaimed water at the reuse sites would have on ground water quality in the Goleta ground water basin. Based on this assessment, existing ground water mineral quality is similar to mineral quality of the applied reclaimed water, and no significant impacts is expected from long-term application of reclaimed water.
 9. State Department of Health Services' criteria for use of reclaimed water is in Title 22, Chapter 3, of the California Code of Regulations. The Board has consulted with the State Department of Health Services regarding the regulation of this discharge.
 10. The Goleta Sanitary District certified a final Environmental Impact Report on January 21, 1991 in accordance with the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) and the California Code of Regulations.
 11. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.
 12. On June 13, 1991, the Board notified the Producer and interested agencies and persons of its intent to issue water reclamation requirements for the discharge and has provided them with a copy of the proposed order and an opportunity to submit written views and comments.

13. After considering all comments pertaining to this production of reclaimed water during a public hearing on September 13, 1991, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13523 of the California Water Code, Goleta Sanitary District, its agents, successors, and assigns, may discharge waste from the above described water reclamation facility, providing compliance is maintained with the following:

(Note: other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984. Applicable paragraphs are referenced in paragraph D.2 of this Order.)

A. PROHIBITIONS

1. Discharge to other than the User and to other than approved reclamation areas (see Standard Provision A.6.), is prohibited.
2. Discharge of any wastes including overflow and bypass, from treatment or storage systems, to adjacent drainageways or adjacent properties is prohibited.
3. Bypass of the treatment facility and discharge of untreated or partially treated wastes directly to landscape irrigation reuse sites is prohibited.

B. RECLAMATION SPECIFICATIONS

1. Daily flow averaged over each month shall not exceed 3.3 million gallons (12,500 m³).
2. Reclaimed water shall not contain constituents in excess of the following:

<u>Constituent</u>	<u>Unit of Measurement</u>	<u>Mean</u>	<u>Maximum</u>
Biochemical Oxygen Demand, 5-Day	mg/l	10*	25
Turbidity**	NTU	2	5
Total Non-Filtrable Residue (Suspended Solids)	mg/l	10*	25
Settleable Solids	ml/l	-	0.1
Total Dissolved Solids	mg/l	-	1500
Cadmium	mg/l	-	0.01
Lead	mg/l	-	5.0

* Compliance shall be determined from results of the five most recent samples

** Limits to be met following filtration. Maximum limit shall not be exceeded more than 5 percent of the time during any 24-hour period.

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- 3. The median number of coliform organisms in reclaimed water shall not exceed 22 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed, and the number of coliform organisms shall not exceed 23 per 100 milliliters in any sample.
 - 4. Reclaimed water shall not have a pH less than 6.5 or greater than 8.4.
 - 5. Chlorine residual in reclaimed water shall equal or exceed 5 mg/l, as measured within the zone at the end of the chlorine contact chamber.
 - 6. Use of reclaimed water shall cease and all wastewater shall be diverted immediately to the Goleta Sanitary District Wastewater Treatment Plant if:
 - a. Disinfection of wastewater ceases at any time; or,
 - b. Reclamation specifications are violated or threatened to be violated.
 - c. Diversion causes or threatens to cause violation of Order No. 85-69 for Goleta Sanitary District or any subsequent revision.
 - 7. Delivery of reclaimed water to the User shall cease during any period the User cannot comply with its water reclamation requirements. Use of reclaimed water may resume when the User can once again comply with its water reclamation requirements.
 - 8. Reclaimed water used for dust control and soil compaction shall comply with the California Department of Health Services' Guidelines for the Use of Reclaimed Water for Construction Purposes and Guidelines for Worker Protection.
 - 9. Personnel involved in producing, transporting, or using reclaimed water shall have undergone adequate training in reclaimed water use, as provided by the Producer.
 - 10. Vehicles used for transporting reclaimed water (e.g., tank trucks) shall be appropriately labeled and shall not leak.
- C. GROUND WATER LIMITATIONS
- 1. The discharge shall not cause a statistically significant increase of nitrate, mineral, or organic concentrations in underlying ground water.

2. The discharge shall not cause concentrations of chemicals and radionuclides in groundwater to exceed limits set forth in Title 22, Chapter 15, Articles 4 and 5 of the California Code of Regulations.
 3. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Code of Regulations, the Producer must submit a written report to the Executive Officer no later than March 1, 1996, addressing:
 - a. Whether there will be changes in the continuity, character, location, or volume of the discharge; and.
 - b. Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.
- D. PROVISIONS
1. Producer shall comply with "Monitoring and Reporting Program No. 91-03," as specified by the Executive Officer.
 2. Producer shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984, except Item Nos. A.11., A.14., and C.4.

I, WILLIAM R. LEONARD, 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, Central Coast Region, on September 13, 1991.



Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5414

ORDER NO. 91-04

**WATER RECLAMATION REQUIREMENTS
FOR
GOLETA WATER DISTRICT
PRIMARY USER OF RECLAIMED WATER,
SANTA BARBARA COUNTY**

The California Regional Water Quality Control Board, Central Coast Region (hereafter Board), finds:

1. Mr. Robert Paul, General Manager, filed a Report of Waste Discharge on August 23, 1990, and supplemental information was received on January 30, 1991, in accordance with Section 13522.5 of the California Water Code. The report was filed on behalf of the Goleta Water District (hereafter User) for authorization to use reclaimed water from the Goleta Sanitary District (hereafter Producer) Water Reclamation Plant. The information supports a request for landscape irrigation within the User's service area.
2. The 3.3 million-gallons-per-day treatment plant and reclamation storage facilities are regulated by water reclamation requirements contained in Order No. 91-03.
3. Potential landscape irrigation reuse sites total 52 comprising approximately 575 acres. The sites are listed on Attachments "A" and "B" and shown on Attachments "C" through "E" of this Order. Initial reuse sites are Twin Lakes and Ocean Meadows Golf Courses and University of California at Santa Barbara (UCSB). These reuse sites comprise a total of approximately 135 acres to be irrigated.
4. Surface drainage from the reuse sites is primarily via storm drains to the Pacific Ocean, Devereaux Ranch Lagoon, or Goleta Slough.
5. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan) was adopted by the Board on November 17, 1989. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters.
6. Present and anticipated beneficial uses of the Pacific Ocean in the vicinity of the reuse sites include:
 - a. Water contact recreation;
 - b. Non-contact water recreation, including aesthetic enjoyment;
 - c. Industrial water supply;
 - d. Navigation;
 - e. Marine habitat;
 - f. Shellfish harvesting;
 - g. Mariculture;
 - h. Preservation of Rare and Endangered Species;
 - i. Fish migration;
 - j. Fish Spawning;
 - k. Ocean commercial and sport fishing; and,
 - l. Wildlife habitat.

Beneficial uses of Devereaux Ranch Lagoon include: the above uses a,b,l, and warm freshwater habitat. Beneficial uses of Goleta Slough include: the above uses a,b,e,f,h, and l.
7. State Department of Health Services' criteria for use of reclaimed water is in Title 22, Chapter 3, of the California Code of Regulations. The Board has consulted with the State Department of Health Services regarding the regulation of this discharge.

8. The Goleta Sanitary District certified a final Environmental Impact Report on January 21, 1991 in accordance with the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) and the California Code of Regulations.
9. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.
10. On June 13, 1991, the Board notified the User and interested agencies and persons of its intent to issue water reclamation requirements for the discharge and has provided them with a copy of the proposed order and an opportunity to submit written views and comments.
11. After considering all comments pertaining to this use of reclaimed water during a public hearing on September 13, 1991, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13523 of the California Water Code, Goleta Sanitary District, its agents, successors, and assigns, may use reclaimed water at the above described property providing compliance is maintained with the following:

(Note: other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984. Applicable paragraphs are referenced in paragraph C.2 of this Order.)

A. Prohibitions

1. Discharge to areas other than landscape irrigation reuse sites shown on Attachments "C" through "E", and to other than approved reclamation areas (see Standard Provision A.6.), is prohibited.
2. Discharge of any wastes including overflow, bypass, and overspray from transport or landscape irrigation reuse sites to adjacent drainageways or adjacent properties is prohibited.*

*For the purposes of this prohibition, insignificant amounts of runoff from the extreme peripheries of spray irrigated areas shall not be considered a violation of this order provided that the runoff is minimal and that the User utilizes good irrigation practices.

B. Reclamation Specifications

1. Use of reclaimed water shall be accomplished at a time and in a manner that minimizes ponding and the possibility of public contact with sprayed materials.
 - a. Reclaimed water use shall be applied when the grounds have maximum opportunity to dry before use by the public unless provisions are made to exclude the public from areas during irrigating with reclaimed water and while the areas are drying.
 - b. Drinking water fountains shall be protected from direct or windblown reclaimed water spray.
2. Reclaimed water shall be applied at such a rate and volume as not to exceed vegetative demand and soil moisture conditions. Special precautions must be taken to prevent clogging of spray nozzles, to prevent overwatering and to minimize the production of runoff. Pipelines shall be maintained so as to prevent leaks.

3. Reclaimed water shall not be used for irrigation during periods of extended rainfall and/or runoff.
 4. Signs shall be provided to inform the public that reclaimed water is being stored or used. For golf courses, notification shall also be placed on score cards.
 5. Personnel involved in transporting or using reclaimed water shall have undergone adequate training in reclaimed water use, as provided by the Producer.
 6. Reclaimed water piping (excluding existing landscape piping), controllers, valves, etc., shall be marked to differentiate reclaimed water facilities from potable water facilities.
 7. Reclaimed water valves, outlets, quick couplers, and sprinklers shall be of a type, or secured in a manner, that permits operation only by authorized personnel.
 8. Use or installation of hose bibs on the reclaimed water system shall not be permitted.
 9. Proper backflow and cross-connection protection for domestic water services and irrigation wells shall be provided.
 10. Reclaimed water shall not be irrigated or impounded within 100 feet of any well used for domestic supply.
 11. Reclaimed water systems shall be regularly inspected to assure proper operation, absence of leaks, and absence of illegal connections.
- C. Provisions
1. User shall comply with "Monitoring and Reporting Program No. 91-04," as specified by the Executive Officer.
 2. User shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984, except Item Nos. A.11., A.14., A.15., C.4., D.1 and D.2.
 3. At least three months prior to reuse, the User shall submit plans and specifications to the Regional Board, and Santa Barbara County Environmental Health Services which show how compliance with prohibitions and reclamation specifications in this Order will be assured.
 4. Prior to water reclamation at the landscape irrigation reuse sites, the User shall:
 - a. Obtain approval of the plans and specifications required by Provision D.3., **C.3** above, from the Executive Officer after consultation with Santa Barbara County Environmental Health Services.
 - b. Enter into a contractual arrangement (User Agreement) with all reclaimed water users in order to assure all parties understand the proper water reuse practices needed to comply with this Order. A User Manual shall be provided to each Site Supervisor.
 5. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Code of Regulations, the User must submit a written report to the Executive Officer no later than March 1, 1996, addressing:
 - a. Whether there will be changes in the continuity, character, location, or volume of the discharge; and,
 - b. Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.

WDR Order No. 91-04

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I, WILLIAM R. LEONARD, 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, Central Coast Region, on September 13, 1991.



Executive Officer

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