

**STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
895 Aerovista Place, Suite 101
San Luis Obispo, California 93401-7906**

**DRAFT WASTE DISCHARGE REQUIREMENTS
AND
WATER RECYCLING REQUIREMENTS (PRODUCER)
ORDER NO. R3-2017-0001
CIWQS Place No. CW-819577**

FOR THE

**PASATIEMPO GOLF CLUB
TERTIARY RECYCLED WATER SYSTEM NO. 4490004
SANTA CRUZ COUNTY**

The California Regional Water Quality Control Board, Central Coast Region (hereafter also referred to as the "Central Coast Water Board") finds that:

PURPOSE OF ORDER

1. California Water Code section 13523 states that the Central Coast Water Board shall prescribe water reclamation requirements for water that is proposed to be used as recycled water, if in the judgment of the Central Coast Water Board it is necessary to protect the public health, safety, or welfare.
2. This order establishes requirements to be met by Pasatiempo Golf Club for the production of disinfected tertiary recycled water, as defined in California Code of Regulations, Title 22, section 60301.230 (Title 22 Water Recycling Criteria).
3. This Order does not regulate Pasatiempo Golf Club's distribution and use of recycled water. A separate order regulates Pasatiempo Golf Club's distribution and use of recycled water (WQ-2016-0068-DDW).

FACILITY INFORMATION

4. On March 20, 1946, Pasatiempo Golf Course, Inc. became Pasatiempo, Inc., a California corporation, which is the legal corporate entity that owns the Pasatiempo Golf Club.
5. Pasatiempo Golf Club will treat secondary wastewater effluent it receives from Scotts Valley Wastewater Reclamation Facility (SVWRF) to a tertiary level and use it to irrigate its golf course. The recycled water Pasateimpo Golf Club produces will meet Title 22 Water Recycling Criteria for non-restricted reuse of tertiary effluent.
6. On behalf of Pasatiempo Golf Club, Waterworks Engineers submitted the March 2016 *Title 22 Engineering Report for Treatment, Distribution, and Use of Disinfected Tertiary Recycled Water* (Engineering Report) describing its proposed project to Department of Drinking Water (DDW) for review and acceptance. On April 27, 2016, DDW issued a letter commenting on the Engineering Report. In October 2016, Water Works submitted a revised Engineering Report to DDW. On November 4, 2016, DDW approved Pasatiempo's revised Engineering Report.

7. Pasatiempo Golf Club is the water recycling facility owner and will contract for operations services.
8. Pasatiempo Golf Club plans to supplement its existing irrigation water supplies (i.e., potable water it purchases from Scotts Valley Water District and/or onsite Pasatiempo Golf Club groundwater supply wells) with this new recycled water supply.
9. Pasatiempo Golf Club's water recycling facility is located in Santa Cruz County, north of Santa Cruz off Highway 17 at 20 Clubhouse Road. Based on the revised Engineering Report, the maximum design flow of the Pasatiempo Golf Club's water recycling facility is approximately 600,000 gallons per day (gpd).
10. Pasatiempo Golf Club will receive secondary treated wastewater from SVWRF. Disinfected secondary water from SVWRF is pumped to the City of Santa Cruz through a Santa Cruz County pipeline located within Graham Hill Road. SVWRF's disinfected secondary treated effluent combines with disinfected secondary effluent from the City of Santa Cruz Wastewater Treatment Plant (Santa Cruz WWTP) and is discharged via an outfall into the Pacific Ocean.
11. SVWRF's discharge is regulated by the Central Coast Water Board via a National Pollutant Discharge Elimination System (NPDES) Permit No. CA0048828, Waste Discharge Requirements Order (Order) No. R3-2013-0001, which the Central Coast Water Board adopted on February 1, 2013.
12. Santa Cruz WWTP's discharge is regulated by the Central Coast Water Board via NPDES Permit No. CA0048194, Order No. R3-2010-0043, which the Central Coast Water Board adopted on December 9, 2010. The City of Santa Cruz is requiring Pasatiempo Golf Club to obtain an Industrial Users Wastewater Discharge Permit for its discharge into the sanitary sewer tributary into the Santa Cruz WWTP.
13. Water recycling treatment will include screening, filtration, and chlorination, followed by storage in a 500,000-gallon storage tank. The aboveground storage tank may store recycled water treated at its facility or other irrigation water from other sources.
14. Pasatiempo Golf Club has agreements with the County of Santa Cruz and City of Santa Cruz to discharge the recycled water treatment plant's filter backwash (up to 8,000 gallons per day) and/or excess recycled water it has produced into the County of Santa Cruz's collection system that flows into the Santa Cruz WWTP. Pasatiempo Golf Club will also discharge raw sewage from the facility's restrooms into the County of Santa Cruz's collection system that flows to the Santa Cruz WWTP.

BASIN PLAN

15. The Central Coast Water Board has adopted the *Water Quality Control Plan for the Central Coastal Basin* (Basin Plan), which designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for receiving waters within the Region.
16. This order furthers the Basin Plan's goal of maximizing water recycling.

17. This order is protective of beneficial uses and water quality because this order prohibits waste discharges, other than into the existing sanitary sewer system tributary to the Santa Cruz WWTP.

STORMWATER

18. The State Water Resources Control Board adopted general NPDES permits for stormwater discharges associated with industrial facilities and stormwater discharges associated with construction activities. Pasatiempo Golf Club's water recycling facility is an industrial facility that requires coverage for discharges of stormwater under the Statewide General Permit for Storm Water Discharges Associated with Industrial Activities, Order 2014-0057-DWQ (Industrial General Permit or IGP). This order does not regulate stormwater discharges. It is incumbent upon the Discharger to obtain all necessary stormwater permits prior to discharging regulated stormwater.

RECYCLED WATER REGULATIONS AND POLICY

19. This order conforms with the California Constitution, Article 10, Section 2, which declares that the water resources of the State be put to beneficial use to the fullest extent of which they are capable, that the waste or unreasonable use or unreasonable method of use of water be prevented, and that the conservation of such waters is to be exercised with a view to the reasonable and beneficial use thereof in the interest of the people and for the public welfare. This order promotes maximal water use.
20. This order conforms with California Water Code section 13523, which provides authority to the Central Coast Water Board to issue water reclamation requirements.
21. This order conforms to the State Water Resources Control Board's Recycled Water Policy, which strives to increase the use of recycled water from municipal wastewater sources that meets the definition in Water Code section 13050(n), in a manner that implements state and federal water quality laws.

ANTIDEGRADATION

22. Because this order prohibits waste discharges other than into the existing, separately regulated sanitary sewer system tributary to the Santa Cruz WWTP, this order will not allow wastes to degrade waters. This order is consistent with State Water Resources Control Board Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California" (Antidegradation Policy).

MONITORING PROGRAM

23. Monitoring and Reporting Program (MRP) No. R3-2017-0001 is part of this Order. The MRP requires routine sampling and analysis to verify compliance with this Order. Monitoring reports are required quarterly and an annual report is required by January 30th of each year. Pasatiempo Golf Club is required to submit quarterly and annual reports to the California Integrated Water Quality System (CIWQS).

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

24. Santa Cruz County Environmental Health Department (Environmental Health) is the lead agency in making a CEQA determination for this facility. On March 11, 2015, Environmental Health performed an Initial Study in accordance with the California Environmental Quality Act (CEQA) for the Pasatiempo Water Storage Tank project, Application No. 141215. Environmental Health subsequently issued a Negative Declaration stating that the proposed project will not have a significant impact on the environment. Santa Cruz County required

the Discharger to also obtain a commercial development permit (Building Permit No. 161108) and preliminary grading approval in addition to the environmental review. Santa Cruz County issued a Master Permit No. ATP-15020 to the Discharger.

The Central Coast Water Board, as a responsible agency under CEQA, has jurisdiction over impacts to waters of the State, including groundwater, and beneficial uses. The Water Board finds that all environmental effects have been identified for project activities that it is required to approve, and that the project will not have significant adverse impacts on the environment, provided that the Discharger operates the facilities as conditioned by this Order. In adopting the terms required in this Order, the Water Board has avoided effects on water quality and therefore approves the operation of the recycled water system. The only potential impact to waters of the State is in the event there is a discharge of secondary treated water (system backwash) or tertiary treated water (excess recycled water) to the existing Scotts Valley and Santa Cruz deep water outfall, and that NPDES discharge is contemplated by NPDES Permit No. CA0048828 (Order No. R3-2013-001) and NPDES Permit No. CA0048194 (Order No. R3-2010-0043) and both permits are exempt from CEQA pursuant to California Water Code section 13389.

CALIFORNIA SAFE DRINKING WATER ACT

25. It is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order upholds that policy by requiring limits on discharges that will ensure groundwater does not exceed maximum contaminant levels designed to protect human health and that water is safe for domestic uses.

GENERAL FINDINGS

26. On March 21, 2017, the Central Coast Water Board notified the Discharger and interested agencies and persons of its intent to consider adoption of waste discharge requirements for the discharge and provided them with a copy of the draft Order and an opportunity to submit written comments and scheduled a public hearing. Written comments were required to be received by April 21, 2017.
27. In a public hearing on May 11-12, 2017, the Central Coast Water Board heard and considered all comments pertaining to the discharge, all evidence in the record, and the applicable law and found this Order consistent with the above findings.
28. All technical and monitoring reports submitted pursuant to this Order are required pursuant to section 13267 of the California Water Code. The Central Coast Water Board finds that the burden of these reports, including costs, bears a reasonable relationship to need for the reports and benefits to be obtained, namely, ensuring compliance with the Recycled Water Policy and regulations and thereby preventing potential threats to human health and the environment. Failure to submit reports in accordance with schedules established by this Order or attachments to this Order, or failure to submit a report of sufficient technical quality to be acceptable to the Executive Officer, may subject the Discharger to enforcement action pursuant to section 13268 of the California Water Code.

IT IS HEREBY ORDERED that, pursuant to authority in California Water Code division 7, including sections 13263, 13267, and 13523, Pasatiempo, Inc., its agents, successors, and assigns shall comply immediately with all prohibitions, specifications, and provisions of this Order. All required submittals must be acceptable to the Central Coast Water Board's Executive Officer. Violations may result in enforcement actions, including Water Board orders or court orders

requiring corrective action or imposing civil monetary liability, or in modification or revocation of this Order.

A. PROHIBITIONS

1. Wastewater disposal other than into the existing sanitary sewer system tributary to the Santa Cruz WWTP is prohibited.
2. Introduction of any substance into the recycling facility that adversely affects wastewater treatment is prohibited.
3. Recycling of municipal wastewater other than the secondary wastewater received from SVWRF is prohibited.
4. Freeboard of less than two feet for the aboveground storage tank manholes is prohibited.
5. Wastewater discharged into the existing sanitary sewer system tributary shall not cause an upset at the Santa Cruz WWTP.

B. RECYCLED WATER SPECIFICATIONS

1. Recycled water production, distribution, and use shall at all times be in conformance with recycled water criteria established in Title 22 Water Recycling Criteria and the revised Engineering Report on file with the Water Board.
2. Recycled water shall be disinfected tertiary recycled water, as defined in the Title 22 Water Recycling Criteria.
3. Recycled water effluent must be disinfected to meet Title 22 Water Recycling Criteria (Section 60301.230) requirements, which include a chlorine disinfection process following filtration that provides a Contact Time (CT). The Discharger shall maintain a CT (the product of total chlorine residual and modal contact time measured at the same point) value of not less than 450 milligram-minutes per liter at all times with a modal contact time of at least 90 minutes, based on peak dry weather design flow.
4. In accordance with Title 22 requirements, the median concentration of total coliform bacteria measured in the disinfected effluent shall not exceed a Most Probable Number (MPN) of:
 - a. 2.2 per 100 milliliters utilizing the bacteriological results of the last seven days for which analyses have been completed.
 - b. 23 per 100 milliliters in more than one sample in any 30-day period.
 - c. 240 per 100 milliliters at any time.
5. Per Title 22 Section 60320.5, the Amiad Automatic Microfiber (AMF) cartridge filter is a DDW- approved "other method of treatment." Per Section 60301.320 the turbidity of the filtered wastewater shall not exceed any of the following:
 - a. An average of 2 Nephelometric Turbidity Units (NTU) within a 24-hour period;
 - b. 5 NTU more than 5 percent of the time within a 24-hour period; and
 - c. 20 NTU at any time.
6. Per Title 22 Section 60304: Coagulation need not be used as part of the treatment process provided that the filter effluent turbidity does not exceed 2 NTU, the turbidity of the influent to the filters is continuously measured, the influent turbidity does not exceed 5 NTU for

more than 15 minutes and never exceeds 10 NTU and that there is the capability to diver the wastewater should the filter influent turbidity exceed 5 NTU for more than 15 minutes.

7. Design and operating requirements for the Amiad Automatic Microfiber cartridge filters (AMF 370k filter) are:
 - a. AMF-370 filter may operate at 160 gallons per minute (gpm) for each operating filter. The facility has two AMF-370 filters for a combined flow rate of 320 gpm.
 - b. The loading rate through the AMF-370 filter shall not exceed 2.1 gpm/ft² per the June 8, 2009 DDW conditional approval letter for the Amiad AMF filters.
 - c. The filters are expected to require six backwashes per day with 24-hour per day operation.
 - d. Backwash water for the screens will be pumped from the potable water/groundwater pipe located at the filter.
 - e. Backwash rate will be initially set at 88 gpm using 925-1,320 gallons per backwash (up to 16,000 gallons per day).
 - f. As long as the AMF-370 unit is in operation, the system may not produce recycled water when the influent or effluent turbidity exceeds the following limitations :

Sampling Location ^{1, 2}	Daily Average	Maximum per Time Period	Instantaneous Maximum
Influent Turbidity	N/A	5 NTU for greater than 15 minutes	10
Effluent Turbidity	2 NTU	5 NTU for greater than 72 minutes in 24 hours	10

¹ In the event that Title 22 is revised to more stringent limitations, those limitations shall govern.

² Filter additions and modifications are acceptable as long as the maximum turbidity limit is not exceeded and a report summarizing system changes is submitted to the Water Board.

8. Delivery of recycled water shall cease as soon as possible if:
 - a. Disinfection of wastewater ceases at any time; or
 - b. Reclamation specifications are violated or threaten to be violated.

C. PROVISIONS

1. Future revisions and updates to the Title 22 Engineering Report must be provided in the annual report submitted to the Central Coast Water Board's Executive Officer and DDW to demonstrate applicable operations and management programs in place.
2. Any revisions to the Title 22 Engineering Report shall be submitted to the Central Coast Water Board and to the DDW as a report of waste discharge (application).
3. Pasatiempo Golf Club shall provide to water recycling facility a sufficient number of qualified personnel to operate the facility effectively so as to achieve the required level of treatment at all times.
4. A preventive maintenance program shall be provided in the annual report submitted to the Central Coast Water Board to ensure that all equipment is kept in a reliable operating condition.
5. Operating records shall be maintained at the reclamation plant or a central depository within the operating agency. These shall include: all analyses specified in the reclamation

criteria; records of operational problems, plant and equipment breakdowns, and diversions to emergency storage or disposal; and all corrective or preventive action taken.

A copy of this Order and the preventive maintenance manual shall be maintained by the Pasatiempo Golf Club and shall be made available by the discharger to all employees or contractors performing work (maintenance, monitoring, repair, construction, etc.) at the Water Recycling Facility

6. Process or equipment failures triggering an alarm shall be recorded and maintained as a separate record file. The recorded information shall include the time and cause of failure and corrective action taken. These incidents shall be reported in the quarterly reports required by the Monitoring and Reporting Program.
7. Any discharge of untreated or partially treated wastewater to the use area, and the cessation of same, shall be reported within 24 hours by telephone to the California Emergency Management Agency. Pasatiempo Golf Club shall also describe the spill and any follow-up actions in the quarterly monitoring report submitted to the Central Coast Water Board and DDW.
8. Pasatiempo Golf Club shall comply with Monitoring and Reporting Program No. R3-2017-0001 (included as part of this Order). The Central Coast Water Board's Executive Officer may modify the monitoring and reporting requirements as may be necessary.
9. Pasatiempo Golf Club shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements," dated December 5, 2013 (also referred to as "Standard Provisions").
10. Treatment and discharge shall not cause pollution or nuisance as defined in section 13050 of the California Water Code.
11. All accumulated biosolids or solid residue shall be disposed of at a location authorized by law. Pasatiempo Golf Club shall report to the Central Coast Water Board any plans to discharge at a facility not covered by existing waste discharge requirements or general waste discharge requirements at least six months before disposal begins. If the Executive Officer directs the discharger to submit a report of waste discharge, Pasatiempo Golf Club shall not begin disposal until it has obtained coverage under individual or general waste discharge requirements or other authorization to discharge.
12. Treatment and storage facilities shall be managed to exclude the public and posted to warn the public of the presence of wastewater.
13. Pasatiempo Golf Club must submit a report to the Central Coast Water Board, no later than May 11, 2026, addressing:
 - a. Whether there will be changes in the continuity, character, location or volume of the discharge; and
 - b. Whether, in its opinion, there is any portion of the Order that is incorrect, obsolete or otherwise in need of revision.
14. Pasatiempo Golf Club must pay annual fees in accordance with the fee schedule given in California Code of Regulations Title 23, section 2200 and annual fee invoices issued by the State Water Resources Control Board.

15. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the Pasatiempo Golf Club, the discharger shall notify the Central Coast Water Board and DDW of such changes in writing, and shall also notify the succeeding owner or operator of the existence of this Order and current compliance status in writing. The succeeding owner or operator, in order to obtain authorization for discharges regulated by this Order, must apply in writing to the Central Coast Water Board's Executive Officer, requesting transfer of the Order. This request must include complete identification of the new owner or operator, the reasons for the change, and effective date of the change. Discharges conducted without submittal of this request will be considered discharges without waste discharge requirements, violations of the California Water Code.
16. The Central Coast Water Board will review this Order periodically and may revise the requirements as necessary to comply with changing State and federal laws, regulations, policies, or guidelines; changes in this Water Board's Basin Plan; or changes in the discharge's characteristics.
17. After notice and public meeting, this Order may be terminated or modified by the Central Coast Water Board for any reason.

I, John M. Robertson, 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 May 11, 2017.

John M. Robertson, Executive Officer

ECM Place ID CW-819577

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**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
895 Aerovista Place, Suite 101
San Luis Obispo, California 93401**

DRAFT MONITORING AND REPORTING PROGRAM NO. R3-2017-0001

FOR THE

**PASATIEMPO GOLF CLUB
TERTIARY RECYCLED WATER SYSTEM (NO. 4490004)
20 GOLF COURSE ROAD, SANTA CRUZ
SANTA CRUZ COUNTY
ECM Place ID CW-819577**

EFFLUENT MONITORING

Representative samples from the effluent shall be collected and analyzed according to the following schedule:

Constituent	Units	Sample Type	Minimum Sampling and Analysis Frequency
Daily Flow	gal/day	Metered	Continuous
Turbidity	NTU	Metered	Continuous
Total Coliform	MPN/100 mL	Grab	Daily
pH	--	Grab	Daily
Chlorine Residual	mg/L	Metered	Continuous

REPORTING

For all monitoring specified above, results shall be submitted quarterly by the 20th day of January, April, July, and October of each calendar year to the California Integrated Water Quality System database. The report shall also include a summary of any operational or equipment problems, reasons for any violations of waste discharge requirements, and corrective actions taken to eliminate violations. In addition, an annual report is required by January 30th of each year.

Ordered By: _____
John M. Robertson, Executive Officer

Date: _____

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