

FACT SHEET FOR ADDENDUM NO. 2 TO ORDER NO. R9-2003-0155

This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Addendum to Order No. R9-2003-0155.

I. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

Table 1. Facility Information

WDID	9 0000001182
Discharger	US Marine Corps Camp Pendleton
Name of Facility	Southern Region Tertiary Treatment Facility
Facility Address	Box 555008 Camp Pendleton, San Diego CA 92055
Facility Contact, Title and Phone	Khalique Khan, Env. Engr. Div. Head, (760) 725-9753
Authorized Persons to Sign and Submit Reports	Lt. Col. Gregory S. Thomas, Facilities Maintenance Officer, (760) 725-3807
Mailing Address	Facilities Maintenance Department Box 555009 Camp Pendleton CA 92055 San Diego County
Billing Address	Facilities Maintenance Department Box 555009 Camp Pendleton CA 92055 San Diego County
Type of Facility	Municipal POTW
Major or Minor Facility	Major
Threat to Water Quality	1
Complexity	A
Pretreatment Program	No
Reclamation Requirements	Producer and Distributor (regulated under separate WDRs)
Facility Permitted Flow	3.6 MGD
Facility Design Flow	5.0 MGD
Watershed	Santa Margarita
Receiving Water	Pacific Ocean
Receiving Water Type	Ocean

- A. The U.S. Marine Corps Camp Pendleton (hereinafter Camp Pendleton) is the owner and operator of the Southern Region Tertiary Treatment Plant as well as Wastewater Treatment Plant Nos. 1, 2, 3, & 13 in the lower Santa Margarita River Watershed
- B. Camp Pendleton discharges effluent consisting of treated wastewater from STP Nos. 1, 2, 3 & 13 through the Oceanside Ocean Outfall, owned and operated by the City of Oceanside, to the Pacific Ocean, a water of the United States, and is currently regulated by Order No. R9-2003-0155, which was adopted on August 13, 2003.
- C. Camp Pendleton filed a Report of Waste Discharge (RoWD) and submitted an application to amend its Waste Discharge Requirements (WDRs) and National Pollutant Discharge Elimination System (NPDES) permit on April 25, 2006.

II. PROJECT DESCRIPTION

Camp Pendleton (CPEN) has been discharging secondary treated effluents from STPs 1, 2, 3, and 13 to the Oceanside Ocean Outfall (OOO) under a National Pollutant Discharge Elimination System (NPDES) permit (CA 0109347). The Addendum would allow Camp Pendleton to replace STP 13 with the new 5.0 million gallon per day (mgd) Southern Region Tertiary Treatment Plant (SRTTP). The tertiary treated water from the SRTTP will combine with the secondary treated effluents from the STPs 1, 2 and 3 at the Lemon Grove Pump Station, followed by discharge to the OOO. The total volume of discharge to the OOO will still be the same and will not exceed the upper limit of 3.6 mgd.

The SRTTP and associated facilities are adjacent to STP-13, near the CPEN's Commissary on Vandergrift Boulevard and Lemon Grove Road (Figure 1) and the detailed site plan is in Figure 2. After the SRTTP is operational, under the first phase of the plan, influent from STP-13 will be diverted to the SRTTP. The design capacity of the SRTTP is 5.0 MGD with the full operating capacity of 3.75 MGD. To start with, the SRTTP will be handling only the flows diverted from STP 13 which is an average of 1.3 MGD. The tertiary treated effluent will then be discharged into the existing Lemon Grove Ponds. From there, it will gravity flow into the Lemon Grove Pump Station, followed by discharge to the OOO.

Under the second phase of the project, conveyance lines are under construction to convey wastewater influent streams from STPs 1, 2, and 3 to the SRTTP for treatment. Under the same phase of the project, recycle and re-use lines are also under construction to carry the tertiary treated water from the SRTTP to the reuse locations on the Base. Once the second phase of the project is completed, STPs 1, 2, and 3 will be decommissioned and will be demolished at a later date. The existing STPs will be replaced by pump stations to pump the wastewater to the SRTTP.

At the completion of the second phase, the SRTTP will be receiving about 2.7 mgd of wastewater from the southern part of the Base. The full operating capacity of 3.75 mgd is to take into consideration the future wastewater flows from CPEN. CPEN plans to eventually recycle and re-use 100 percent of the tertiary treated water on the Base, if practicable. Before this happens, Camp Pendleton will obtain a Waste Discharge requirement (WDR) permit from the RWQCB for recycling and reuse of the tertiary treated water.

The SRTTP under construction consists of the following treatment units and facilities:

- Influent pump station/headworks
- Grit removal facilities
- Sequencing batch reactors
- Disinfection contact basins
- Disk filters®
- Aerobic digesters, belt filter presses, and gravity belt thickeners®
- Equalization basins
- Biofilters
- Chemical storage and handling facilities
- Reclaimed water pump station

III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

The requirements contained in Order No. R9-2003-0155 are based on the requirements and authorities described in this section.

A. Legal Authorities

The Order was issued pursuant to section 402 of the Federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. Environmental Protection Agency (USEPA) and Chapter 5.5, Division 7 of the California Water Code (CWC). It serves as a NPDES permit for point source discharges from the Discharger's Facilities to the Pacific Ocean at the City of Oceanside Outfall 001. The Order also contains discharge prohibitions, effluent limitations, discharge specifications, provisions, and other requirements pursuant to the CWC.

B. California Environmental Quality Act (CEQA)

This action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Chapter 3, Division 13 commencing with Section 21100) in accordance with Section 13389 of the CWC.

An Environmental Impact Statement (EIS) was prepared for the construction of the 5.0 mgd SRTTP as well as the wastewater conveyance pipelines from the STPs to the SRTTP and the recycle reuse pipelines from the SRTTP to the reuse locations. The Record of Decision (ROD) was signed on 17 June 2004.

C. State and Federal Regulations, Policies, and Plans

- 1. Water Quality Control Plans.** The Regional Water Board adopted a Water Quality Control Plan for the San Diego Basin (hereinafter Basin Plan) on September 8, 1994. The Basin Plan was subsequently approved by the State Water Resources Control Board (State Water Board) on December 13, 1994. Subsequent revisions to the Basin Plan have also been adopted by the Regional Water Board and approved by the State Water Board. The Basin Plan designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. Beneficial uses applicable to the Pacific Ocean are as follows: The Basin

Plan relies primarily on the requirements of the *Water Quality Control Plan for Ocean Waters of California* (Ocean Plan) for protection of the beneficial uses of the State ocean waters. The Basin Plan, however, may contain additional water quality objectives applicable to the Discharger.

2. **Antidegradation Policy.** 40 CFR 131.12 requires that State water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution No. 68-16, which incorporates the requirements of the federal antidegradation policy. Resolution No. 68-16 requires that existing water quality is maintained unless degradation is justified based on specific findings. Replacing STP 13 with the SRTTP will result in no degradation of water quality.
3. **Anti-Backsliding Requirements.** Sections 402(o) and 303(d)(4) of the CWA and 40 CFR 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. Replacing STP 13 with the SRTTP will result in no backsliding of requirements.

D. Impaired Water Bodies on CWA 303(d) List

On June 5 and July 25, 2003, the U.S. EPA approved the list of impaired water bodies, prepared by the State Water Board pursuant to Section 303 (d) of the CWA, which are not expected to meet applicable water quality standards after implementation of technology-based effluent limitations for point sources. The 303 (d) list includes the following sections of Pacific Ocean shoreline within the proximity of the OOO as impaired for bacteria indicators:

1. 0.5 miles of Pacific Ocean shoreline at the mouth of the San Luis Rey River
2. 1.1 miles of Pacific Ocean shoreline at the mouth of Loma Alta Creek
3. 1.2 miles of Pacific Ocean shoreline at Buena Vista Creek

Impairment has been detected at the shorelines indicated above; however, the receiving waters in the immediate vicinity of the Facilities' discharge point (Outfall 001) are not included on the current 303 (d) list.

E. Other Plans, Polices and Regulations

1. **Secondary Treatment Regulations.** 40 CFR 133 establishes the minimum levels of effluent quality to be achieved by secondary treatment. These limitations, established by the U.S. EPA, are incorporated into Order No. R9-2006-002, except where more stringent limitations are required by other applicable plans, policies, or regulations.
2. **Storm Water.** Sewage treatment works with a design flow of 1.0 MGD or greater are required to comply with Water Quality Order No. 97-03-DWQ (NPDES General Permit No. CAS000001), Waste Discharge Requirements for Discharges of Storm Water Associated with Industrial Activity, Excluding Construction Activities. The Discharger must file a Notice of Intent and comply with Order No. 97-03-DWQ or the Discharger shall provide certification to the Regional Water Board that all storm water is captured and treated on-site and no

storm water is discharged or allowed to run off-site from the Facilities.

3. **Pretreatment.** Discharges of pollutants that may interfere with operations of a POTW are regulated by U.S. EPA’s pretreatment regulations at 40 CFR 403. These regulations require Dischargers to develop and implement pretreatment programs that impose limitations on industrial users of the POTW if the POTW treats 5 MGD of wastewater or more.

IV. Rationale For No Changes to Effluent Limitations, Discharge Specifications, Receiving Water Limitations, Monitoring and Reporting Requirements

Characteristics of the wastewater influent to the SRTTP as well as the projected tertiary effluent quality are presented in Table 1.

Table 1

Flow Volume and Influent Wastewater Characteristics

Flow (m d)	
Design Average Daily Flow	5
Maximum Monthly	7
Peak Day	10
Peak Hour (Hydraulic Peak)	15
BOD 5 (mg/L)	260
TSS (mg/L)	385
TKN (mg/L)	45
TP (m /L)	8
<u>Projected Tertiary Effluent Quality</u>	
BOD - Maximum Month (mg/L)	10
TSS - Maximum Month (mg/L)	10
Turbidity (NTU) (Title 22 Requirement)	Not to exceed 5 NTU for more than 5 minutes, not to exceed 10 NTU at any time
TN - Maximum Month (m L)	5
TP - Maximum Month (m L)	1
Total Coliform (MPN/100mL) (Title 22)	<ul style="list-style-type: none"> • . 7-day median not to exceed 2.2. • No more than one sample to exceed 23 in 30 days. • No sample to exceed 240

By replacing STP 13, a secondary treatment facility, with a tertiary treatment plant should result in the combined effluent quality discharged from the Lemon Grove Pump Station that meets, if not exceeds, the discharge specifications currently established in Order No. R9-2003-0155.

V. PUBLIC PARTICIPATION

The California Regional Water Quality Control Board, San Diego Region (Regional Water Board) is considering the issuance of an addendum to waste discharge requirements (WDRs) that serves as a National Pollutant Discharge Elimination System (NPDES) permit for Camp Pendleton discharge to the Oceanside Ocean Outfall. As a step in the Addendum adoption process, the Regional Water Board staff has developed tentative requirements. The Regional Water Board encourages public participation in the WDR adoption process.

A. Notification of Interested Parties

The Regional Water Board has notified U.S. Marine Corps Camp Pendleton and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations.

B. Written Comments

The staff determinations are tentative. Interested persons are invited to submit written comments concerning these tentative WDRs. Comments should be submitted either in person or by mail to the Executive Office at the Regional Water Board at the address above on the cover page of this Order.

To be fully responded to by staff and considered by the Regional Water Board, written comments should be received at the Regional Water Board offices by 5:00 p.m. on August 2, 2006.

C. Public Hearing

The Regional Water Board will hold a public hearing on the tentative Addendum during its regular Board meeting on the following date and time and at the following location:

Date: August 16, 2006
Time: 9:00 am
Location: Regional Water Quality Control Board
Regional Board Meeting Room
9174 Sky Park Court
San Diego, CA

Interested persons are invited to attend. At the public hearing, the Regional Water Board will hear testimony, if any, pertinent to the discharge, WDRs, and permit. Oral testimony will be heard; however, for accuracy of the record, important testimony should be in writing.

Please be aware that dates and venues may change. Our web address is <http://www.waterboards.ca.gov/sandiego> where you can access the current agenda for changes in dates and locations.

D. Waste Discharge Requirements Petitions

Any aggrieved person may petition the State Water Resources Control Board to review the decision of the Regional Water Board regarding the final WDRs. The petition must be submitted within 30 days of the Regional Water Board's action to the following address:

State Water Resources Control Board
Office of Chief Counsel
P.O. Box 100, 1001 I Street
Sacramento, CA 95812-0100

E. Information and Copying

The Report of Waste Discharge (RoWD), related documents, tentative requirements, comments received, and other information are on file and may be inspected at the Regional Water Board office at 9174 Sky Park Court, Suite 100, San Diego, CA 92123 at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday, except state holidays. Copying of documents may be arranged through the Regional Water Board by calling 858-467-2952.

F. Register of Interested Persons

Any person interested in being placed on the mailing list for information regarding the WDRs and NPDES permit should contact the Regional Water Board, reference these facilities, and provide a name, address, and phone number.

G. Additional Information

Requests for additional information or questions regarding this Addendum should be directed to Charles Cheng at (858) 627-3930.

