

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

ORDER NO. 93-014

WASTE DISCHARGE REQUIREMENTS  
FOR  
COACHELLA VALLEY WATER DISTRICT  
PALM DESERT WASTEWATER RECLAMATION FACILITY  
Palm Desert - Riverside County

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. Coachella Valley Water District (hereinafter referred to as the discharger), 85-820 Coachella Heights, P.O. Box 1058, Coachella, California 92236, submitted a Report of Waste Discharge on September 9, 1992 for the Palm Desert Wastewater Reclamation Facility located at 43-000 Cook Street, Palm Desert, CA.
2. The discharger currently operates a sewage treatment facility which consists of an activated sludge treatment plant (providing a secondary level of treatment of the wastewater) and a tertiary wastewater treatment plant.
3. The discharger has proposed to increase the design treatment capacity of the secondary treatment plant from 10.0 million gallons-per-day (mgd) to 18.0 mgd of wastewater. The expanded plant will consist mainly of a grit chamber, 16 aeration basins and 14 secondary clarifiers. Secondary sludge will be treated in aerobic digesters. Following treatment, the sludge will be mechanically dewatered by means of two belt filter presses.
4. The discharger is discharging an annual average daily flow of 7.2 mgd from the secondary treatment plant. About forty percent of this plant's effluent will be treated further at the tertiary treatment plant. The remaining secondary effluent will be piped first to two cement-lined holding basins and then to 18 infiltration basins for final disposal. The entire treatment facility, including the basins, is located within the S $\frac{1}{2}$  of the NW $\frac{1}{4}$  of Section 15 and the N $\frac{1}{2}$  of the SW $\frac{1}{4}$  of Section 15, T5S, R6E, SBB&M, as indicated on the attached site map. The discharger reports that part of the secondary treatment plant effluent will also be used for on-site irrigation and plant maintenance.
5. The solids removed from the grit chamber will be disposed of at a Regional Board approved landfill. The discharger has contracted the service of a private contractor to haul away the treated secondary sludge. The secondary sludge is then further processed to remove pathogens and sold as a soil amendment.
6. The purpose of the tertiary treatment process is to reclaim secondary effluent for the irrigation of adjacent (off-site) golf courses. The tertiary treatment system consists of coagulation (using alum), flocculation, dual media filtration (sand and anthracite), holding basins, and land application. In this process, the effluent is chlorinated, and the chlorinated effluent is piped directly to holding basins located on the golf course. Holding basins are necessary to allow the golf course landscape time to utilize the moisture and nutrients of the tertiary effluent. The tertiary treatment plant has a current design capacity of ten (10) MGD.
7. Data submitted by the discharger indicates that depth to ground water in the vicinity of the plant is between 141 to 165 feet below ground surface. The soil texture below the plant ranges from fine sand to coarse sand and gravel.

*Superseded*  
by: *Bd. Ord. # 97-005*  
*1/22/97*

8. Ground water samples collected from two wells (Well No. 05S-06E-16A-02S and Well No. 05S-06E-22B-02S) within one mile of the plant indicate that total dissolved solids concentration ranges from 160 to 193 mg/L. The nitrate concentration from the same wells is in the range of 0.34 and 0.93 mg/L as nitrogen.
9. The Water Quality Control Plan for the Colorado River Basin Region of California was adopted on May 15, 1991, and designates the beneficial uses of ground and surface waters in this Region.
10. The beneficial uses of ground waters in the Coachella Hydrologic Subunit are:
  - a. Municipal supply (MUN)
  - b. Industrial supply (IND)
  - c. Agricultural supply (AGR)
11. There are no domestic wells within 500 feet of the on-site infiltration basin discharge facilities described in Finding No. 4, above.
12. This discharge has been subject to waste discharge requirements adopted in Board Order No. 90-038.
13. The discharger further reports that there are currently no industrial wastewaters being discharged to the wastewater treatment facility.
14. The California Department of Health Services has established statewide reclamation criteria in Title 22, California Code of Regulations, Section 60301, et seq. (hereafter Title 22) for the use of reclaimed water and has developed guidelines for specific uses.
15. Federal regulations for storm water discharges were promulgated by the EPA on 16 November 1990 (40 CFR Parts 122, 123, and 124). The regulations require specific categories of facilities which discharge storm water associated with industrial activity (storm water) to obtain NPDES permits and to implement Best Available Technology Economically Achievable (BAT) and Best Conventional Pollutant Control Technology (BCT) to reduce or eliminate industrial storm water pollution.
16. The State Water Resources Control Board adopted Order No. 91-13-DWQ (General Permit No. CAS000001), as amended by Water Quality Order No. 91-12-DWR, specifying waste discharge requirements for discharges of storm water associated with industrial activities, excluding construction to be covered under the Board Order.
17. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge.
18. The Board in a public meeting heard and considered all comments pertaining to this discharge.
19. The Board of Directors of the Coachella Valley Water District approved a Negative Declaration (File No. 0710.1018) on April 26, 1988 for the expansion of this facility to a treatment capacity of 18 MGD. The following waste discharge requirements are designed to assure against any adverse effects on water quality.

IT IS HEREBY ORDERED, that Board Order No. 90-038 is rescinded and in order to meet the provisions contained in Division 7 of the California Water Code and Regulations adopted thereunder, the discharger shall comply with the following:

A. Discharge Specifications

1. Wastewater effluent discharged to infiltration basins from treatment facilities shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Monthly Average Value</u>	<u>Maximum Value</u>
20°C BOD <sub>6</sub>	mg/L	20.0	30.0
Suspended Solids	mg/L	20.0	30.0
Settleable Matter	ml/L	0.3	0.5

2. Both treated and untreated wastewater shall be prevented from entering any surface water bodies at any time.
3. Wastewater discharged to holding and/or infiltration basins shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Annual Mean Value</u>
Total Dissolved Solids	mg/L	500.0
Sulfate (SO <sub>4</sub> )	mg/L	70.0
Chloride (Cl)	mg/L	70.0
Fluoride	mg/L	1.2

4. Tertiary treated effluent directly reused shall conform to the following:
  - a. Reclaimed water, used for the irrigation of golf courses and landscapes where the public has access or exposure, shall be at all times be adequately disinfected, oxidized, coagulated, filtered wastewater or a wastewater treated by a sequence of unit processes that will assure an equivalent degree or treatment and reliability.
    - (1) The wastewater shall be considered adequately disinfected if the median number of fecal coliform organisms in the effluent does not exceed 2.2 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed, and the maximum number of fecal coliform organisms does not exceed 23 per 100 milliliters in any sample.
    - (2) Filtered wastewater means an oxidized, coagulated, clarified wastewater which has been passed through natural undisturbed soils or filter media, such as sand or diatomaceous earth. The wastewater shall be considered adequately filtered if the turbidity, as determined by an approved laboratory method, does not exceed 5 NTU units more than 5 percent of the time during any 24-hour period.
  - b. There shall be no direct or indirect discharge of reclaimed wastewater into any on-site domestic or irrigation supply well as a result of reclaimed wastewater irrigation use on golf courses and landscape areas.

- c. The discharger shall not deliver reclaimed wastewater for reuse to those users who, by reason of their operational practices, cause nuisances associated with wastewater or otherwise contribute to the violation of the requirements of this Board Order.
5. The storage, delivery, or use of reclaimed water shall not individually or collectively, directly or indirectly, result in a pollution or nuisance or adversely affect water quality, as defined in the California Water Code.
6. The delivery or use of reclaimed water shall be in conformance with the reclamation criteria contained in Chapter 3, Title 22, California Code of Regulations, or amendments thereto, for the irrigation of food crops, irrigation of fodder, fiber, and seed crops, landscape irrigation, supply of recreational impoundments and ground water recharge.
7. The discharger shall be responsible for assuring that reclaimed water is utilized in conformance with this Board Order and the reclamation criteria contained in Title 22, California Code of Regulations.
8. Prior to delivering reclaimed water to any new user, the discharger shall submit to the Regional Board a report discussing the delivery system, the use for which the reclaimed water is intended and plans to assure that no untreated or inadequately treated wastewater will be delivered to the use area.
9. Objectionable odors originating at this facility shall not be perceivable beyond the limits of the wastewater treatment and disposal area.
10. Bypass or overflow of untreated or partially treated waste is prohibited.
11. The discharge shall not cause degradation of any water supply.
12. A minimum freeboard of two (2) feet shall be maintained at all times in all holding basins.
13. Treated or untreated sludge, or similar solid waste materials shall be disposed as described in Finding No. 5 of this Board Order, or at locations approved by the Regional Board's Executive Officer.
14. Wastes, including windblown spray, shall be strictly confined to the lands specifically designated for the disposal operation, and irrigation practices shall be managed so that runoff of effluent from the irrigated areas does not occur at anytime.
15. The treatment or disposal of wastes at this facility shall not cause pollution or nuisance as defined in Sections 13050(l) and 13050(m) of Division 7 of the California Water Code.

#### B. Provisions

1. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the treatment and discharge facilities inoperable.
2. The discharger shall construct a ground water monitoring system in the vicinity of the unlined infiltration basins which shall enable ground water samples to be collected and analyzed as specified by the "Monitoring and Reporting Program No. 93-014". This system shall be constructed within six (6) months after the approval of the design plans for said system and shall include ground water monitoring wells upgradient and downgradient of the infiltration basin.
3. The design plans for the ground water monitoring system shall be submitted to the Regional Board's Executive Officer for approval by August 1, 1993.

4. The discharger shall comply with attached "Monitoring and Reporting Program No. 93-014", and future revisions thereto, as specified by the Regional Board's Executive Officer, in accordance with the following:
  - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
  - b. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Board Order, and records of all data used to complete the application for this Board Order, for a period of at least 5 years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Board's Executive Officer at any time.
  - c. Records of monitoring information shall include:
    1. The date, exact place, and time of sampling or measurements.
    2. The individual(s) who performed the sampling or measurements.
    3. The date(s) analyses were performed.
    4. The individual(s) who performed the analyses.
    5. The results of such analyses.
5. The discharger shall provide the following information regarding off-site use of tertiary effluent:
  - a. Name and location of the golf courses/landscape areas being irrigated.
  - b. Name and person, company, or agency responsible for the operation and maintenance of the irrigation system.
  - c. Quantity and quality of the tertiary effluent being provided to individual customers.
  - d. The discharger shall immediately notify the Regional Board's Executive Officer of any changes regarding Items 4.a., 4.b., and 4.c.
6. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Chapter 4, Division 4, Title 23 of the California Code of Regulations.
7. The discharger shall provide a report to the Regional Board when it determines that the treatment plants are operating at 80 percent of the design capacities specified in Findings No. 3 and 6 of this Board Order. The report should indicate what steps, if any, the discharger intends to take, to provide for expected wastewater treatment capacities necessary when the plants reach their capacities.
8. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
9. Compliance with the discharge limitation shall be determined at the end of the discharge pipe.
10. The discharger shall develop and implement a Storm Water Pollution Prevention Plan for this facility. The plan must be submitted to the Regional Board's Executive Officer for review and approval not later than 90-days after the adoption of this Board Order.
11. All storm water discharges from this facility must comply with the lawful requirements of municipalities, counties, drainage districts, and other local agencies, regarding discharges of storm water to storm drain systems or other courses under their jurisdiction.

12. The discharger shall maintain a copy of this Board Order at the site so as to be available at all times to site-operating personnel. The discharger shall ensure that all site-operating personnel are familiar with the content of this Board Order.
13. The discharger shall, at all times, properly operate and maintain all systems and components of treatment and control which are installed or used by the discharger to achieve compliance with the conditions of this Board Order. Proper operation and maintenance includes effective performance, adequate process controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of this Board Order. All systems, both in service and reserve, shall be inspected and maintained on a regular basis. Records shall be kept of the inspection results and maintenance performed and made available to the Regional Board upon demand.
14. Prior to any modification in this facility which would result in material change in the quality or quantity of wastewater treated or discharged, or any material change in the location of discharge, the discharger shall report in writing to the Regional Board's Executive Officer.
15. The following information shall be submitted to the Regional Board's Executive Officer within 90 days of the effective date of this Board Order and updated as changes occur:
  - a. Annual sludge production in dry tons and percent of solids.
  - b. A schematic diagram showing sludge handling facilities (e.g. digesters, lagoons, drying beds, incinerators) and a solids flow diagram.
  - c. A narrative description of sludge dewatering and other treatment processes, including process parameters. For example, if sludge is digested, report average temperature and retention time of the digesters. If drying beds are used, report depth of application and drying time. If composting is used, report the depth of application and drying time and the temperature achieved and duration.
16. The discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide a monthly summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agricultural, composting, etc.), and the destination.
17. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of in a manner approved by the Regional Board's Executive Officer of the Regional Board.
18. Ponds shall have sufficient capacity to accommodate allowable wastewater flow and design seasonal precipitation and ancillary inflow and infiltration during the nonirrigation season. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns. Freeboard shall never be less than two feet (measured vertically).
19. The discharger may be required to submit technical reports as directed by the Regional Board's Executive Officer.
20. The discharger shall allow the Regional Board's Executive Officer, or his/her authorized representative, upon the 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, including reclaimed water treatment or discharge facilities, sludge use and

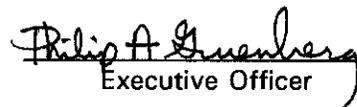
disposal activities, or facilities where records must be kept under the conditions of this Board Order.

- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Board Order. Inspect and sample or monitor, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order, including reclaimed water treatment, discharge, sludge use or disposal sites.
21. The discharger shall allow the Regional Board's Executive Officer, or his/her authorized representative, to sample or monitor influent, effluent, and sludge for the purposes of determining compliance with this Board Order and other applicable requirements regarding sludge use and disposal.

C. Pretreatment

1. In the event that significant industrial wastewaters are being discharged to the wastewater treatment facility, then:
  - a. The discharger shall develop, implement and maintain an industrial pretreatment program approved by the Regional Board's Executive Officer.
  - b. The discharger shall maintain an adequate revenue program and enforce prohibitions against any violation of applicable pretreatment standards approved by the Regional Board's Executive Officer.
2. The discharger shall provide the Regional Board with an annual report describing the pretreatment program activities over the previous 12-month period. The report shall be transmitted to the Regional Board office no later than January 31 of each year and include:
  - a. A summary of actions taken by the discharger which ensures industrial-user compliance;
  - b. An updated list of industrial users (by SIC categories) which were issued permits, and/or enforcement orders, and a status of compliance for each user; and
  - c. The name and address of each user that received a revised discharge limit.
3. The Regional Board retains the right to take legal action against an industrial user and/or the discharger where a user fails to meet the approved applicable pretreatment standards.

I, Philip A. Gruenberg, 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, Colorado River Basin Region, on March 31, 1993.

  
Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 93-014 (REVISION NO. 3)  
FOR  
COACHELLA VALLEY WATER DISTRICT  
PALM DESERT WASTEWATER RECLAMATION FACILITY  
Palm Desert - Riverside County

Location of Discharge: S½, NW¼, Section 15, and the N½, SW¼, Section 15, T5S, R6E, SBB&M

EFFLUENT MONITORING

Secondary effluent<sup>1</sup> shall be sampled at the secondary effluent pumping station. Secondary effluent discharged to any holding and/or infiltration basin shall be monitored for the following:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
20°C BOD <sub>5</sub>	mg/L	24-Hr. Composite	Semi-Weekly
Suspended Solids	mg/L	24-Hr. Composite	Semi-Weekly
Settleable Solids	ml/L	Grab at Peak Flow	Semi-Weekly
Flow (Total Plant Effluent)	MGD	Flow Measurement	Daily <sup>2</sup>
pH	pH Units	Grab	Daily
Total Dissolved Solids	mg/L	Grab	Monthly
Sulfate (SO <sub>4</sub> )	mg/L	Grab	Monthly
Chloride (Cl)	mg/L	Grab	Monthly
Fluoride (F)	mg/L	Grab	Monthly
Nitrate as N (NO <sub>3</sub> -N)	mg/L	Grab	Monthly
Nitrite	mg/L	Grab	Monthly

<sup>1</sup> Effluent from activated sludge treatment plant

<sup>2</sup> Reported for each day with average monthly flow calculated

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Volatile Organic Compounds <sup>3</sup> (EPA Methods 601 & 602)	µg/L <sup>4</sup>	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly

### TERTIARY EFFLUENT MONITORING

The discharger shall monitor the tertiary effluent<sup>5</sup> being supplied for golf courses/landscapes irrigation as follows:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Fecal Coliform	MPN/100 ml	Grab	Daily <sup>6</sup>
Volume of wastewater used for irrigation at each location	Gallons/day	Flow Measurement	Daily <sup>7</sup>
Turbidity	---	Continuous	Meter Reading <sup>8</sup>
Chlorine Residual	mg/L	Grab at Peak Flow	Daily

The discharger shall provide the location of all golf course sites being irrigated, and the name of the person, company or agency responsible for the irrigation at individual sites.

---

<sup>3</sup> Analysis of Volatile Organic Compounds are to be accomplished using the EPA test methods 601 and 602

<sup>4</sup> µg/L = microgram-per-Liter

<sup>5</sup> Effluent from tertiary treatment plant after chlorination

<sup>6</sup> To be taken when wastewater flow and characteristics are most demanding on the treatment and chlorination facilities. The sample may be taken at any point in treatment process. Sampling time and location shall be included with all Monitoring Reports.

<sup>7</sup> Reported for each day with average monthly flow calculated

<sup>8</sup> Reported for each day with average daily turbidity calculated

### GROUND WATER MONITORING

Ground water shall be sampled from the monitoring wells and analyzed for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Frequency</u>
Total Dissolved Solids	mg/L	Grab	Quarterly
Nitrates	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
Fluoride	mg/L	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly
Volatile Organic	$\mu$ g/L	Grab	Quarterly
Depth to Ground Water	Feet	Measurement	Quarterly
Flow Direction	--	Measurement	Quarterly

### SLUDGE MONITORING

The discharger shall report quarterly on the quantity, location and method of disposal of all sludge and similar solid materials being produced at the wastewater treatment plant facility.

The sludge that is generated at the treatment facility shall be sampled and analyzed for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Arsenic	mg/kg <sup>9</sup>	Grab	Annually
Cadmium	mg/kg	Grab	Annually
Chromium	mg/kg	Grab	Annually
Copper	mg/kg	Grab	Annually
Lead	mg/kg	Grab	Annually
Mercury	mg/kg	Grab	Annually
Molybdenum	mg/kg	Grab	Annually

---

<sup>9</sup> Milligrams-per-kilogram on a dry weight basis

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Nickel	mg/kg	Grab	Annually
Selenium	mg/kg	Grab	Annually
Zinc	mg/kg	Grab	Annually
Fecal Coliform	Most Probable Number	Grab	Annually

### REPORTING

1. Twenty-four hour reporting. The discharger shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the discharger becomes aware of the circumstances. A written submission shall also be provided within five days of the time the discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

The following shall be included as information that must be reported within 24 hours under this paragraph:

- a. Any unanticipated bypass that exceeds any daily maximum effluent limitation in the permit.
- b. Any upset that exceeds any daily maximum effluent limitation in the permit.
- c. Any spill in excess of 1,000 gallons.
- d. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Regional Board in this permit to be reported within 24 hours.

The Regional Board's Executive Officer may waive the above-required written report on a case-by-case basis for reports under this provision if the oral report has been received within 24 hours.

2. The collection, preservation and holding times of all samples shall be in accordance with EPA-approved methods. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.
3. Daily, semi-weekly and monthly monitoring reports shall be submitted to the Regional Board by the 15th day of the following month. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15 of each year.

Annual reports shall be submitted to the Regional Board by January 15th of each year.

4. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.

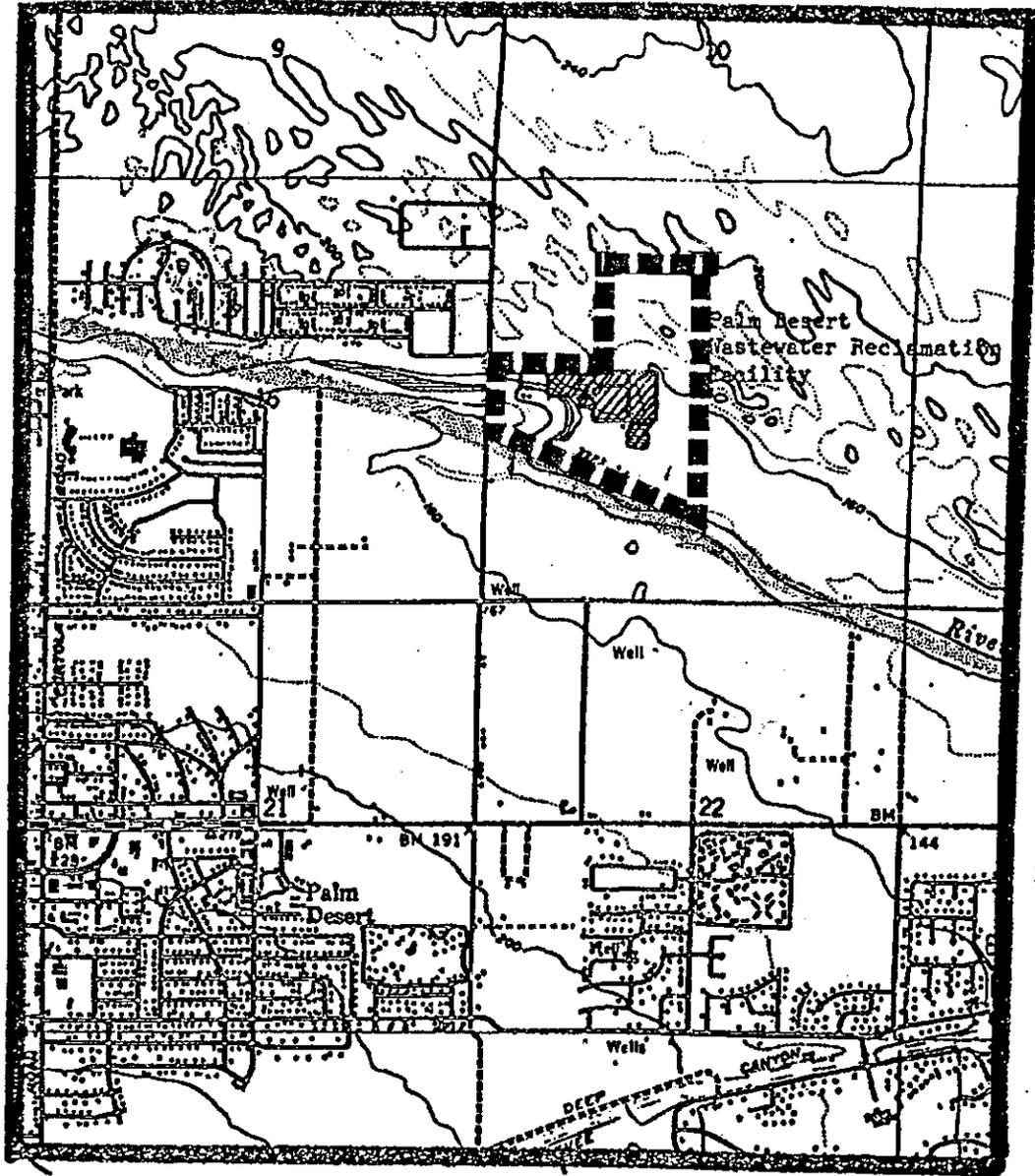
5. Each report shall contain the following statement:

"I declare under the penalty of law that this document and all the attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

6. Monitoring reports shall be signed by the Coachella Valley Water District General Manager, or other duly authorized employee.
7. Submit monitoring reports to:

California Regional Water Quality Control Board  
Colorado River Basin Region  
73-720 Fred Waring Drive, Suite 100  
Palm Desert, CA 92260

ORDERED BY: Philip A. Gunderberg  
Executive Officer  
6-7-95  
Date



Scale:  
1 : 24000

**SITE MAP**

**COACHELLA VALLEY WATER DISTRICT  
PALM DESERT WASTEWATER RECLAMATION FACILITY  
Palm Desert - Riverside County  
Facility and Discharge Location:  
S½, NW¼, Section 15 and the N½, SW¼, Section 15, T6S, R6E, SBB&M  
USGS Palm Desert 15' Topographic Map**

Board Order No. 93-014

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 93-014 (REVISION NO. ~~1~~ 2)  
FOR  
COACHELLA VALLEY WATER DISTRICT  
PALM DESERT WASTEWATER RECLAMATION FACILITY  
Palm Desert - Riverside County

Location of Discharge: S½, NW¼, Section 15, and the N½, SW¼, Section 15, T5S, R6E, SBB&M

EFFLUENT MONITORING

Secondary effluent<sup>1</sup> shall be sampled at the secondary effluent pumping station. Secondary effluent discharged to any holding and/or infiltration basin shall be monitored for the following:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
20°C BOD <sub>5</sub>	mg/L	24-Hr. Composite	Semi-Weekly
Suspended Solids	mg/L	24-Hr. Composite	Semi-Weekly
Settleable Solids	ml/L	Grab at Peak Flow	Semi-Weekly
Flow (Total Plant Effluent)	MGD	Flow Measurement	Daily <sup>2</sup>
pH	pH Units	Grab	Daily
Total Dissolved Solids	mg/L	Grab	Monthly
Sulfate (SO <sub>4</sub> )	mg/L	Grab	Monthly
Chloride (Cl)	mg/L	Grab	Monthly
Fluoride (F)	mg/L	Grab	Monthly
Nitrate as N (NO <sub>3</sub> -N)	mg/L	Grab	Monthly
Nitrite	mg/L	Grab	Monthly

<sup>1</sup> Effluent from activated sludge treatment plant

<sup>2</sup> Reported for each day with average monthly flow calculated

*6-7-95  
superseded  
w/ M&R Rev.  
#3*

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Volatile Organic Compounds <sup>3</sup> (EPA Methods 601 & 602)	µg/L <sup>4</sup>	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly

### TERTIARY EFFLUENT MONITORING

The discharger shall monitor the tertiary effluent<sup>5</sup> being supplied for golf courses/landscapes irrigation as follows:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Fecal Coliform	MPN/100 ml	Grab	Daily <sup>6</sup>
Volume of wastewater used for irrigation at each location	Gallons/day	Flow Measurement	Daily <sup>7</sup>
Turbidity	---	Continuous	Meter Reading <sup>8</sup>
Chlorine Residual	mg/L	Grab at Peak Flow	Daily

The discharger shall provide the location of all golf course sites being irrigated, and the name of the person, company or agency responsible for the irrigation at individual sites.

<sup>3</sup> Analysis of Volatile Organic Compounds are to be accomplished using the EPA test methods 601 and 602

<sup>4</sup> µg/L = Microgram per Liter

<sup>5</sup> Effluent from tertiary treatment plant after chlorination

<sup>6</sup> To be taken when wastewater flow and characteristics are most demanding on the treatment and chlorination facilities. The sample may be taken at any point in treatment process. Sampling time and location shall be included with all Monitoring Reports.

<sup>7</sup> Reported for each day with average monthly flow calculated

<sup>8</sup> Reported for each day with average daily turbidity calculated

GROUND WATER MONITORING

Ground water shall be sampled from the monitoring wells and analyzed for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Frequency</u>
Total Dissolved Solids	mg/L	Grab	Quarterly
Nitrates	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
Fluoride	mg/L	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly
Volatile Organic	µg/L	Grab	Quarterly
Depth to Ground Water	Feet	Measurement	Quarterly
Flow Direction	--	Measurement	Quarterly
Flow Rate	Flow Rate/Day	Measurement	Quarterly

SLUDGE MONITORING

The discharger shall report quarterly on the quantity, location and method of disposal of all sludge and similar solid materials being produced at the wastewater treatment plant facility.

The sludge that is generated at the treatment facility shall be sampled and analyzed for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Arsenic	mg/kg <sup>9</sup>	Grab	Annually
Cadmium	mg/kg	Grab	Annually
Chromium	mg/kg	Grab	Annually
Copper	mg/kg	Grab	Annually
Lead	mg/kg	Grab	Annually
Mercury	mg/kg	Grab	Annually
Molybdenum	mg/kg	Grab	Annually
Nickel	mg/kg	Grab	Annually

---

<sup>9</sup> Milligrams per kilogram on a dry weight basis



<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Selenium	mg/kg	Grab	Annually
Zinc	mg/kg	Grab	Annually
Fecal Coliform	Most Probable Number	Grab	Annually

### REPORTING

1. The discharger shall report to the Regional Board staff, in a complete and timely manner, all sewage spills of 100 gallons or more that occur as a result of the operation of the facility (including the collection system), and, without regard to volume, any repetitive sewage spills and sewage spills that continue for more than two hours or enter surface waters of the United States. Initial notification, made by telephone to the Regional Board office or State Office of Emergency Services, shall occur as soon as possible, but no later than one hour after the discharger's personnel are aware of the spill. Complete written reports of sewage spills shall be submitted to the Regional Board within five working days. The written report shall include the following:
  - a. Exact location of the spill;
  - b. Time and date when the District was aware of the spill;
  - c. Time and date when the response crew arrived at the scene;
  - d. Cause of the spill;
  - e. Volume of the spill;
  - f. Containment and cleanup measures taken;
  - g. Agencies notified (time, date, contact, method of contact used).
  
2. The collection, preservation and holding times of all samples shall be in accordance with EPA-approved methods. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.
  
3. Daily, semi-weekly and monthly monitoring reports shall be submitted to the Regional Board by the 15th day of the following month. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15 of each year.
 

Annual reports shall be submitted to the Regional Board by January 15th of each year.
  
4. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
  
5. Each report shall contain the following statement:
 

"I declare under the penalty of law that this document and all the attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".
  
6. Monitoring reports shall be signed by the Coachella Valley Water District General Manager, or other duly authorized employee.



7. Submit monitoring reports to:

California Regional Water Quality Control Board  
Colorado River Basin Region  
73-720 Fred Waring Drive, Suite 100  
Palm Desert, CA 92260

ORDERED BY: Philip A. Greenberg  
Executive Officer  
4-10-95  
Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 93-014  
FOR  
COACHELLA VALLEY WATER DISTRICT  
PALM DESERT WASTEWATER RECLAMATION FACILITY  
Palm Desert - Riverside County

Location of Discharge: S½, NW¼, Section 15, and the N½, SW¼, Section 15, T5S, R6E, SBB&M

EFFLUENT MONITORING

Secondary effluent<sup>1</sup> shall be sampled at the secondary effluent pumping station. Secondary effluent discharged to any holding and/or infiltration basin shall be monitored for the following:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
20°C BOD <sub>5</sub>	mg/L	24-Hr. Composite	Semi-Weekly
Suspended Solids	mg/L	24-Hr. Composite	Semi-Weekly
Settleable Solids	ml/L	Grab at Peak Flow	Semi-Weekly
Flow (Total Plant Effluent)	MGD	Flow Measurement	Daily <sup>2</sup>
pH	pH Units	Grab	Daily
Total Dissolved Solids	mg/L	Grab	Monthly
Sulfate (SO <sub>4</sub> )	mg/L	Grab	Monthly
Chloride (Cl)	mg/L	Grab	Monthly
Fluoride (F)	mg/L	Grab	Monthly
Nitrate as N (NO <sub>3</sub> -N)	mg/L	Grab	Monthly
Nitrite	mg/L	Grab	Monthly

<sup>1</sup> Effluent from activated sludge treatment plant

<sup>2</sup> Reported for each day with average monthly flow calculated

*5/28/93  
superseded by  
Revision 1*

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Volatile Organic Compounds <sup>3</sup> (EPA Methods 601 & 602)	µg/L <sup>4</sup>	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly

### TERTIARY EFFLUENT MONITORING

The discharger shall monitor the tertiary effluent<sup>5</sup> being supplied for golf courses/landscapes irrigation as follows:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Fecal Coliform	MPN/100 ml	Grab	Daily <sup>6</sup>
Volume of wastewater used for irrigation at each location	Gallons/day	Flow Measurement	Daily <sup>7</sup>
Turbidity	---	Continuous	Meter Reading <sup>8</sup>
Chlorine Residual	mg/L	Grab at Peak Flow	Daily

The discharger shall provide the location of all golf course sites being irrigated, and the name of the person, company or agency responsible for the irrigation at individual sites.

---

<sup>3</sup> Analysis of Volatile Organic Compounds are to be accomplished using the EPA test methods 601 and 602

<sup>4</sup> µg/L = Microgram per Liter

<sup>5</sup> Effluent from tertiary treatment plant after chlorination

<sup>6</sup> To be taken when wastewater flow and characteristics are most demanding on the treatment and chlorination facilities. The sample may be taken at any point in treatment process. Sampling time and location shall be included with all Monitoring Reports.

<sup>7</sup> Reported for each day with average monthly flow calculated

<sup>8</sup> Reported for each day with average daily turbidity calculated

## GROUND WATER MONITORING

Ground water shall be sampled from the monitoring wells and analyzed for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Frequency</u>
Total Dissolved Solids	mg/L	Grab	Quarterly
Nitrates	mg/L	Grab	Quarterly
Sulfate	mg/L	Grab	Quarterly
Chloride	mg/L	Grab	Quarterly
Fluoride	mg/L	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly
Volatile Organic	$\mu$ g/L	Grab	Quarterly
Depth to Ground Water	Feet	Measurement	Quarterly
Flow Direction	--	Measurement	Quarterly
Flow Rate	Flow Rate/Day	Measurement	Quarterly

## SLUDGE MONITORING

The discharger shall report quarterly on the quantity, location and method of disposal of all sludge and similar solid materials being produced at the wastewater treatment plant facility.

The sludge that is generated at the treatment facility shall be sampled and analyzed for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Arsenic	mg/kg <sup>9</sup>	Grab	Annually
Cadmium	mg/kg	Grab	Annually
Chromium	mg/kg	Grab	Annually
Copper	mg/kg	Grab	Annually
Lead	mg/kg	Grab	Annually
Mercury	mg/kg	Grab	Annually
Molybdenum	mg/kg	Grab	Annually
Nickel	mg/kg	Grab	Annually

---

<sup>9</sup> Milligrams per kilogram on a dry weight basis

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Selenium	mg/kg	Grab	Annually
Zinc	mg/kg	Grab	Annually
Fecal Coliform	Most Probable Number	Grab	Annually

REPORTING

1. The collection, preservation and holding times of all samples shall be in accordance with EPA-approved methods. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.
2. Daily, semi-weekly and monthly monitoring reports shall be submitted to the Regional Board by the 15th day of the following month. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15 of each year.

Annual reports shall be submitted to the Regional Board by January 15th of each year.

3. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
4. Each report shall contain the following statement:

"I declare under the penalty of law that this document and all the attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

5. Monitoring reports shall be signed by the Coachella Valley Water District General Manager, or other duly authorized employee.
6. Submit monitoring reports to:

California Regional Water Quality Control Board  
Colorado River Basin Region  
73-720 Fred Waring Drive, Suite 100  
Palm Desert, CA 92260

ORDERED BY: Philip A. Gusewara  
Executive Officer

March 31, 1993  
Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
 COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 93-014 (Revision No. 1)  
 FOR

COACHELLA VALLEY WATER DISTRICT  
 PALM DESERT WASTEWATER RECLAMATION FACILITY  
 Palm Desert - Riverside County

Location of Discharge: S 1/2, NW1/4, Section 15, and the N1/2, SW1/4, Section 15, T5S, R6E, SBB&M

EFFLUENT MONITORING

Secondary effluent<sup>1</sup> shall be sampled at the secondary effluent pumping station. Secondary effluent discharged to any holding and/or infiltration basin shall be monitored for the following:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
20°C BOD <sub>5</sub>	mg/L	24-Hr. Composite	Semi-Weekly
Suspended Solids	mg/L	24-Hr. Composite	Semi-Weekly
Settleable Solids	ml/L	Grab at Peak Flow	Semi-Weekly
Flow (Total Plant Effluent)	MGD	Flow Measurement	Daily <sup>2</sup>
pH	pH units	Grab	Daily
Total Dissolved Solids	mg/L	Grab	Monthly
Sulfate (SO <sub>4</sub> )	mg/L	Grab	Monthly
Chloride (cl)	mg/L	Grab	Monthly
Fluoride (F)	mg/L	Grab	Monthly
Nitrate as N (NO <sub>3</sub> -N)	mg/L	Grab	Monthly
Nitrite	mg/L	Grab	Monthly

1 Effluent from activated sludge treatment plant

2 Reported for each day with average monthly flow calculated

*4-10-95  
 superseded  
 by  
 Rev. 02*

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Frequency</u>
Mercury	mg/kg	Grab	Annually
Molybdenum	mg/kg	Grab	Annually
Nickle	mg/kg	Grab	Annually
Selenium	mg/kg	Grab	Annually
Zinc	mg/kg	Grab	Annually
Fecal Coliform	Most Probable Number	Grab	Annually
		Grab	Annually

#### REPORTING

1. The collection, preservation and holding times of all samples shall be in accordance with EPA-approved methods. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.
2. Daily, semi-weekly and monthly monitoring reports shall be submitted to the Regional Board by the 15th day of the following month. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, July 15, and October 15 of each year.  
Annual reports shall be submitted to the Regional Board by January 15th of each year.
3. The discharger shall arrange the data in tabular form so that the specified information is readily discernable. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
4. Each report shall contain the following statement:  
"I declare under the penalty of the law that this document and all the attachments are true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".
5. Monitoring reports shall be signed by the Coachella Valley Water District General Manager, or other duly authorized employee.

6. Submit monitoring reports to:

California Regional Water Quality Control Board  
Colorado River Basin Region  
73-720 Fred Waring Drive, Suite 100  
Palm Desert, CA 92260

ORDERED BY: Philip A. Guenberg  
Executive Officer

5-28-93

Date