CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

BOARD ORDER NO. 99-012

WASTE DISCHARGE REQUIREMENTS
FOR
CALIFORNIA DEPARTMENT OF CORRECTIONS, OWNER/OPERATOR
McCAIN VALLEY CONSERVATION CAMP
SEPTIC TANK/OXIDATION BASIN SEWAGE FACILITIES
North of Boulevard - San Diego County

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

1. The California Department of Corrections, McCain Valley Conservation Camp, owner/operator (hereinafter also referred to as the discharger), P. O. Box 1252, Boulevard, CA 91905, submitted an updated Report of Waste Discharge (ROWD) dated December 9, 1998.

2. McCain Valley Conservation Camp's primary mission is to house inmate fire crews for fire suppression activities in the San Diego, Imperial and Riverside county areas. In addition to fire suppression, the inmate hand crews provide a work force for conservation and community service projects in the local area.

3. The discharger is discharging a maximum of 16,000 gallons-per-day of domestic sewage from a prison camp designed to house 160 inmates and a staff of about 30 persons. The average flow of wastewater at the facility is about 14,500 gallons-per-day. Wastewater from the office building and resident quarters are collected at a lift station where it is pumped to three (3) septic tanks. Each of these tanks have a capacity of 1500 gallons. The effluent from the septic tanks gravity-flows into three (3) oxidation/infiltration basins for final disposal by means of evaporation and percolation. Discharge into these basins is alternated on a regular basis. The maximum design capacity of the system is about 19,000 gallons-per-day. The septic tanks and the discharge basins are located in the SE ¼, SW ¼of Section 16, T17S, R7E, SBB&M.

4. There are no domestic wells within 500 feet of the sewage treatment and disposal basins. Water is supplied via a pipeline from a domestic well located about one-mile southeast of the basins.

5. The Water Quality Control Plan for the Colorado River Basin Region of California (Basin Plan) was adopted on November 17, 1993 and designates the beneficial uses of ground and surface waters in this Region.

6. The designated beneficial uses of ground waters in the Anza Borrego Hydrologic Unit are:

   a) Municipal supply (MUN)
   b) Industrial Supply (IND)
   c) Agricultural supply (AGR)

7. This discharge has been subject to waste discharge requirements adopted in Board Order No. 93-022.

8. Federal regulations for storm water discharges were issued by the U. S. Environmental Protection Agency on November 16, 1990 (40 Code of Federal Regulations (CFR) Parts 122,123, and 124). In conformance with these regulations, the State Water Resources Control Board adopted a general permit for storm water discharges associated with specific categories of industrial activities, Water Quality Order No. 91-13-DWQ was amended by Water Quality Order No. 91-13-DWQ (as amended by Water Quality Order 92-12-DWQ), NPDES No. CAS000001, on September 17, 1992. Industrial facilities, as listed by Standard Industrial Classification and including sewage treatment plants, are required to obtain NPDES permits for their storm water discharges.

9. In accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these waste discharge requirements, which govern the operation of an existing facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq).

10. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for this discharge, and has provided them with an opportunity to submit comments.

11. The Board in a public meeting heard and considered all comments pertaining to this discharge.

IT IS HEREBY ORDERED, that Board Order No. 93-022 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. Effluent Limitations

1. The dry weather flow to the treatment basins shall not exceed 19,000 gallons-per-day (GPD).

2. The increase in concentration of total dissolved solids (TDS) in the wastewater discharged to the treatment basins over that contained in the water supply to the camp shall not exceed 400 mg/L. Whenever this TDS value is exceeded, the discharger shall develop and implement appropriate mitigation measures acceptable to the Regional Board's Executive Officer.

B. Prohibitions

1. The direct discharge of any wastewater to any surface waters or surface drainage courses is prohibited.

2. Bypass or overflow of untreated or partially treated wastewater is prohibited.

3. The discharge of waste or wastewater to land not owned or controlled by the discharger is prohibited.

4. Discharge of treated wastewater at a location or in a manner different from that described in Finding No. 3, above, is prohibited.

5. The disposal of wastewater in excess of the design treatment capacity of the system is prohibited.

6. Discharge of waste classified as "hazardous" or "designated" as defined in California Code of regulations, Title 27, to any part of the wastewater disposal system is prohibited.

C. Specifications

1. The treatment or disposal of wastes at this facility shall not cause pollution or nuisance as defined in Section 13050(l) and 13050(m) of Division 7 of the California Water Code.

2. No wastewater other than domestic wastewater shall be discharged into the sewage disposal system described in Finding No. 3, above.

3. A minimum depth of freeboard of two feet shall be maintained at all time in each of the basins.

4. Ponds shall be managed to prevent breeding of mosquitoes. In particular.

   a. An erosion control program should ensure that small coves and irregularities are created around the perimeter of the water surface.
   b. Weeds shall be minimized through control of water depth, harvesting and herbicides.
   c. Dead algae, vegetation and debris shall not be allowed to accumulate on the water surface.

5. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.

6. Ponds shall have sufficient capacity to accommodate allowable wastewater flow, design seasonal precipitation, ancillary inflow and infiltration during the rainy 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.

7. A surface aerobic environment shall be maintained in each basin.

8. The discharge shall not cause degradation of any beneficial use of surface or ground water.

9. Septic tank cleanings shall be discharged only by a duly authorized service. All septage shall be disposed of in a manner authorized by the Regional Board's Executive Officer.

D. Provisio .s

1. The system shall include upgradient and downgradient monitoring wells designed and constructed in a manner which ensures detection of any constituent which may adversely impact the quality of the groundwater in the vicinity of the oxidation basins. The workplan shall include details of the number, location, construction and design specifications for this system. A description of the hydrogeological characteristics of the acquifer beneath the basins shall be included in the workplan.

2. In the case that groundwater sample analyses indicate that the concentration of any nitrate or hazardous substance including VOCs exceeds the MCL established for drinking water, the discharger is required to resample the wastewater within 30 days of the date of the initial sample results. If the resampling results also exceed the MCLs of nitrate or any hazardous substances including VOCs, the discharger is required to perform a subsurface investigation pursuant to section 13267 of the California Water Code to determine any impacts of the groundwater and/or soils. If a subsurface investigation is necessary, the discharger is required to submit a workplan to perform the investigation. The workplan must be prepared by a professional engineer or geologist. The workplan shall be submitted to the Regional Board's Executive Officer for approval within 90 days of the dated of the resampling results.

3. The discharger shall perform ground water monitoring as required by "Monitoring and Reporting Program No. 99-012 and revisions thereto, once the groundwater monitoring system described in provisions D-1 is constructed.

4. The discharger shall comply with all Orders issued by the Regional Board Executive Officer.

5. Prior to any modifications in this facility which would result in material change in the quality[1] or quantity[2] of wastewater treated or discharged, or any material change in the location of discharge, the discharger shall report all pertinent information in writing to the Regional Board and obtain revised requirements before any modifications are implemented.

6. Prior to any change in ownership or management of this operation, the discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.

7. The discharger shall ensure that all site-operating personnel are familiar with the contents of this Board Order, and shall maintain a copy of this Board Order at the site.

8. This Board Order does not authorize violation of any federal, state, or local laws or regulations.

9. The discharger shall comply with all of the conditions of this Board Order. Any noncompliance with this Board Order constitutes a violation of the Porter-Cologne Water Quality Control Act and is grounds for enforcement action.

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[1] A change in the material quality of the wastewater stream is defined as a change in the type of wastewater discharge, the addition of wastewater streams or other similar changes to the process which would result in the chemical parameter change within the wastewater stream.

[2] A significant change in the quantity is defined as a ten percent increase in the daily flow of the wastewater stream.

10. This Board Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the discharger for a Board Order modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Board Order condition. Causes for modification include the promulgation of new regulations, modification of land application plans, or modification in sludge use or disposal practices, or adoption of new regulations by the State Board or the Regional Board, including revisions to the Basin Plan.

11. The discharger is the responsible party for the waste discharge requirements and the monitoring and reporting program for the facility. The discharger shall comply with all conditions of these waste discharge requirements. Violations may result in enforcement actions, including Regional Board Orders or court orders, requiring corrective action or imposing civil monetary liability, or in modification or revocation of these waste discharge requirements by the Regional Board.

12. The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the discharger to achieve compliance with this Board Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a discharger only when necessary to achieve compliance with the conditions of this Board Order.

13. All maintenance performed shall be reported with the monitoring reports as required.

14. Storm water discharges from the facility shall not cause or threaten to cause pollution or contamination.

15. Storm water discharges from the facility shall not contain hazardous substances equal to or in excess of a reportable quantity listed in 40 CFR Part 117 and/or 40 CFR Part 302.

16. Adequate measures shall be taken to assure that unauthorized persons are effectively excluded from contact with the wastewater disposal facilities.

17. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Section 3680, Chapter 4, Division 4, Title 23 of the California Code of Regulations.

18. Facilities shall be available to keep the plant in operation in the event of commercial power failure.

19. The discharger shall comply with "Monitoring and Reporting Program No. 99-012, and revisions thereto, as specified by the Regional Board's Executive Officer; and shall be in accordance with the following:

    a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

    b. The monitoring and reporting of influent, effluent, and sludge shall be done as specified in this Board Order.

c. All monitoring, including that of sludge use or disposal, must be conducted according to test procedures approved under 40 CFR Part 136 or as specified in this Board Order.

d. 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.

e. Records of monitoring information shall include:

1. The date, exact place, and time of sampling measurement(s);
2. individual(s) who performed the sampling or measurement(s);
3. The date(s) analyses were performed;
4. The individual(s) who performed the analyses;
5. The results of such analyses.

20. The discharger shall provide adequate notice to the Regional Board's Executive Officer of the following:

a. Any new introduction of pollutants into any of the treatment facilities described in the Findings of this Board Order from an indirect discharger which would be subject to Section 301 or 306 of the Clean Water Act.

b. Any substantial change in the volume or character of pollutants being introduced into any of the treatment facilities described in the Findings of this Board Order by an existing or new source.

c. Any planned physical alterations or additions to the facilities described in this Board Order, or changes planned in the discharger's sludge use or disposal practice, where such alterations, additions, or changes may justify the application of Board Order conditions that are different from or absent in the existing Board Order, including notification of additional disposal sites not reported during the Board Order application process, or not reported pursuant to an approved land application plan.

d. Adequate notice shall include information on the quality and quantity of effluent introduced, and any anticipated impact of the change on the quantity or quality of the discharger's effluent and/or sludge.

e. The discharger shall report all instances of noncompliance. Reports of noncompliance shall be submitted with the discharger's next scheduled self-monitoring report or earlier if requested by the Regional Board's Executive Officer, or if required by an applicable standard for sludge use and disposal.

21. The discharger shall allow the Regional Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

    a. Enter upon the premises regulated by this Board Order, or the place where records must be kept under the conditions of this Board Order;

    b. Have access to and copy, at reasonable times, any records that shall be kept under the conditions of this Board Order;

    c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order; and

    d. Sample or monitor at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the California Water Code, any substances or parameters at this location.

22. The discharger shall obtain a prior written approval from the Regional Board's Executive Officer specifying location and method of disposal, before disposing of treated or untreated sludge, or similar solid waste materials. In addition, the discharger shall provide the results of any sludge analyses as specified by the Regional Board's Executive Officer.

23. 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.

24. All sludge generated at the wastewater treatment plant will be disposed, treated, or applied to land in accordance with Federal Regulations 40 CFR 503.

25. Collected screenings, sludge, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with State Water Resources Control Board and Integrated Waste Management Board's joint regulations (Title 27) of the California Code of Regulations and approved by the Regional Board's Executive Officer.

26. The discharger shall provide a report to the Regional Board when it determines that the plant is operating at 80 percent of the capacity specified in Finding No. 3 above. The report should indicate what steps, if any, the discharger intends to take to provide for the expected wastewater treatment capacity necessary when the plant reaches design capacity.

27. The discharger shall inform this office by telephone of all occurrences of bypasses or spills within one business day of the occurrences. Within 5 days of the occurrences, the discharger shall send a report to this office which shall include the starting date and time of the occurrence, the actual or estimated ending date and time, an estimate of the total discharge and the corrective measures taken (or which will be taken) by the discharger. The discharger shall maintain a log of this information. The said log shall be kept at the facility and shall be available during facility inspection.

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 11, 1999.

Philip A. Gruenberg
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

MONITORING AND REPORTING PROGRAM NO. 99-012
FOR
CALIFORNIA DEPARTMENT OF CORRECTIONS, OWNER/OPERATOR
McCAIN VALLEY CONSERVATION CAMP
SEPTIC TANK/OXIDATION BASIN SEWAGE FACILITIES
North of Boulevard - San Diego county

Discharge Location: SE ¼, SW ¼ of Section 16, T17S, R7E, SBB&M

MONITORING GENERAL

The collection, preservation and holding times of all samples shall be in accordance with U. S. Environmental Protection Agency approved procedures. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.

INFLUENT MONITORING

The wastewater influent to the treatment facilities shall be monitored for the following:

Constituents	Unit	Type of Sample	Sampling Frequency
Total Dissolved Solids	mg/L[1]	Grab	Quarterly
Flow	MGD[2]	---	Daily (Reported (Quarterly)

[1] mg/L - milligrams-per-Liter

[2] MGD - Million gallons-per-day

EFFLUENT MONITORING

The infiltration/evaporation basins shall be sampled quarterly during March, June, September and December and annually during November each year. The samples shall be analyzed for the following:

Parameters and Constituents	Units	Type of Sample	Sampling Frequency
Total Dissolved Solids	mg/L	Grab	Quarterly
Hydrogen Ion	pH Units	Grab	Quarterly
Dissolved Oxygen[3]	mg/L	Grab	Quarterly
Nitrate as NO_3 - N	mg/L	Grab	Quarterly
Ammonia (as Nitrogen)	mg/L	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly
Volatile Organics (EPA Methods 601&602)	µg/L[4]	Grab	Annually[5]

GROUND WATER MONITORING

Ground water samples from the Monitoring Wells shall be monitored as follows:

Constituents	Unit	Type of Sample	Sampling Frequency
Total Dissolved Solids	mg/L	Grab	Quarterly
Nitrate (as Nitrogen)	mg/L	Grab	Quarterly
Ammonia (as Nitrogen)	mg/L	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly
Hydrogen Ion	pH Units	Grab	Quarterly
Fecal Coliform	MPN[6]/100 ml.	Grab	Quarterly
Volatile Organics (EPA Methods 601 & 602)	µg/L	Grab	Annually

[3] The sample shall be collected from the upper one foot of every oxidation basin.
[4] µg/L - Micrograms Per Liter
[5] Annual samples shall be collected during November
[6] MPN - Most Probable Number

SLUDGE MONITORING

The discharger shall report annually on the quantity of sludge produced, total quantity of sludge stored at the site, 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	Unit	Type of Sample	Sampling Frequency
Arsenic	mg/kg[7]	Composite	Annually
Cadmium	mg/kg	Composite	Annually
Copper	mg/kg	Composite	Annually
Lead	mg/kg	Composite	Annually
Mercury	mg/kg	Composite	Annually
Molybdenum	mg/kg	Composite	Annually
Nickel	mg/kg	Composite	Annually
Selenium	mg/kg	Composite	Annually
Zinc	mg/kg	Composite	Annually
Fecal Coliform	MPN/100ml	Composite	Annually
Volatile Organics (EPA Methods 601, 602)	µg/L	Composite	Annually
Pesticides (EPA Method 608)	µg/L	Composite	Annually

WATER SUPPLY TO THE COMMUNITY

The water shall be monitored as follows:

Constituents	Unit	Type of Sample	Sampling Frequency
Total Dissolved Solids	mg/L	Grab	Quarterly

[7] mg/kg - milligrams-per-kilograms on a dry weight basis

OPERATION AND MAINTENANCE

1. The discharger shall submit the following information annually:

   a. List any proposed changes during the coming year;

   b. Explain any problems in the sewage treatment and disposal system during the preceding year;

   c. Number of persons presently discharging to the sewage system;

2. Septic tanks shall be inspected and pumped as described below:

a. Parameter	Units	Type of Measurement	Minimum Inspection Frequency
Sludge depth and scum thickness in each compartment of septic tank	Feet	Staff Gauge	Annually
Distance between bottom of scum layer and bottom of outlet device	Inches	Staff gauge	Annually
Distance between top of sludge layer and bottom of outlet device	Inches	Staff Gauge	Annually

   b. Septic tanks shall be pumped when any one of the following conditions exist, or may occur before the next inspection:

      1. The combined thickness of sludge and scum exceeds one-third of the tank depth of the first compartment; or

      2. The scum layer is within three inches of the outlet device: or,

      3. The sludge layer is within eight inches of the outlet device.

   c. In lieu of septic tanks measuring, the septic tank may be pumped annually.

REPORTING

1. 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.

2. Each report shall contain the following statement:

   "I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations."

3. A duly authorized representative of the discharger may sign the documents if:

   a. The authorization is made in writing by the person described above;

   b. The authorization specified an individual or person having responsibility for the overall operation of the regulated disposal system; and

   c. The written authorization is submitted to the Regional Board's Executive Officer.

4. Report immediately any failure in the waste disposal system to the Regional Board's Executive Officer and the Director of the County Environmental Health by telephone with follow-up by letter.

5. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15 and October 15 of each year. Annual monitoring reports shall be submitted to the Regional Board by January 15 of each year.

6. Submit monitoring reports to:

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

Ordered by Philip A. Gruenberg
Executive Officer

March 11, 1999
Date