California Regional Water Quality Control Board
Santa Ana Region

Order No. R8-2003-0113
Waste Discharge and Producer/User Reclamation Requirements
for
Western Municipal Water District
March Wastewater Reclamation Facility
Riverside County

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter the Board), finds that:

1. Western Municipal Water District (hereinafter discharger) owns and operates the March Wastewater Reclamation Facility (hereinafter "Facility", and formerly known as March Air Force Base Wastewater Treatment Plant). Discharges from the Facility are currently regulated by waste discharge requirements Order No. 88-24, adopted by the Board on March 11, 1988.

2. On October 1, 2002, the discharger acquired ownership of the Facility from the U.S. Air Force-BCA. Consequently, the Regional Board transferred the waste discharge requirements Order No. 88-24 to the discharger on December 17, 2002.

3. The Facility treats domestic and industrial wastewater from March Air Reserve Base (MARB). The treated effluent is recycled and used for the irrigation of the March Joint Powers Authority Golf Course (formerly March Air Force Base Golf Course) and the Riverside National Cemetery. These uses are currently regulated under waste discharge requirements, Order No. 85-183 and Order No. 85-14, respectively. Treated effluent is also discharged to a holding pond located at the Facility.

4. The Facility is a secondary treatment plant with chlorination. Treatment currently consists of screening, primary sedimentation, trickling filters, secondary clarifiers, chlorine contact tank, effluent holding pond, anaerobic digester and sludge drying beds. The design capacity of the Facility is 0.75 million gallons per day (MGD).

5. Water supplied to the service area is State Project Water. The total dissolved solids (TDS) quality of the water supplied in the service area is approximately 200-300 mg/l.

6. The Air Force is currently conducting groundwater cleanup activities at the base for removal of chlorinated solvents and fuel contamination. To remediate contamination at the site, the Air Force has installed vapor extraction and carbon adsorption systems. The Air Force extracts and treats the contaminated groundwater. A portion of the treated groundwater is discharged to the Facility and a portion is discharged to surface waters. Treated groundwater discharges by the Air Force to surface waters are regulated under separate waste discharge requirements Order No. R8-2003-0055, NPDES No. CA8000400, adopted by the Board on July 1, 2003.

7. The groundwater extracted for treatment is high in TDS. Consequently, the treated groundwater that is discharged to the Facility from the groundwater remediation activities is high in TDS concentration. As a result, the TDS concentration of the effluent from the Facility is significantly increased to levels in excess of the limits specified in this Order. However, the effluent from the Facility is recycled and will return to the same groundwater subbasin that is being remediated. Since the water extracted during the groundwater remediation project will be returned to the same groundwater subbasin from which it is extracted, this Order allows the discharger to mathematically subtract the TDS added by the treated groundwater when determining compliance with the TDS limits of this Order. This allows the groundwater remediation to proceed without causing adverse TDS impacts to the discharger.

8. This Order specifies a 550-mg/l total dissolved solids (TDS) limit, which is based on the water quality objective for the Perris-North Groundwater Subbasin. A TDS limit based on water supply quality plus a 250-mg/l TDS increment is also specified. The more stringent TDS limit controls the allowable quality of the discharge.

9. It is necessary to revise waste discharge requirements for this Facility to reflect the changes in the ownership and operations at the Facility, as well as changes in plans, policies and regulations adopted by the State and Regional Board since Order No. 88-24 was adopted.

10. On January 6, 1977, the State Water Resources Control Board (State Board) adopted Resolution No. 77-1, "Policy with Respect to Water Reclamation in California". This Order incorporates requirements for the production and use of reclaimed water in conformance with this policy and the "Reclamation Criteria" (Title 22, Division 4, California Code of Regulations) adopted by the California Department of Health Services (CDHS). The Regional Board has consulted with the (CDHS) regarding these requirements and has incorporated its recommendations.

11. The requirements in this Order are necessary to implement the Water Quality Control Plan. A Water Quality Control Plan (the Basin Plan) became effective on January 24, 1995. The Basin Plan contains beneficial uses and water quality objectives for waters in the Santa Ana Region.

12. The effluent holding pond and recycled water use areas are located in portions of Sections 26, 27, 34, 35, T3S, R4W, SBB&M and overlie the Perris-North Groundwater Subbasin, the beneficial uses of which include:

    a. Municipal and domestic supply,
    b. Agricultural supply,
    c. Industrial service supply, and
    d. Industrial process supply.

13. It is necessary and appropriate to require control of individual mineral constituents in order to meet water quality objectives and protect beneficial uses.

14. The project involves the continued operation of an existing facility and, as such, is exempt from the California Environmental Quality Act (Public Resources Code, Section 21100 et. seq.) in accordance with Section 15301, Chapter 3, Title 14, California Code of Regulations

15. The Regional Board has notified the discharger and other 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 views and recommendations.

16. The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

**IT IS HEREBY ORDERED** that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code, shall comply with the following:

## A. DISCHARGE SPECIFICATIONS

1. The discharge of wastewater or the use of recycled water containing constituent concentrations in excess of the following limits is prohibited:

| Constituent | Weekly Average Concentration Limit (mg/l) | Monthly Average Concentration Limit (mg/l) |
|---|---|---|
| Suspended Solids | 45 | 30 mg/l |
| Biochemical Oxygen Demand | 45 | 30 mg/l |

2. There shall be no discharge of wastewater or use of recycled water in excess of the following limits, except as otherwise provided in Compliance Determinations D.3, D.4 and D.6:

| Constituent | 12-Month Average Concentration Limit (mg/l) |
|---|---|
| Total Dissolved Solids | 550 |
| Total Inorganic Nitrogen (TIN) | 10 |

3. Except as otherwise provided in Compliance Determinations D.3 and D.4, the discharge of wastewater or use of recycled water containing a 12-month average total dissolved solids concentration which exceeds the 12-month average total dissolved solids concentration in the water supply by more than 250 mg/l is prohibited.

4. For Discharge Specifications 2. and 3., whichever total dissolved solids limit that results in the lower concentration shall be controlling.

5. The discharge of wastewater or use of recycled water containing constituent concentrations in excess of the following limits is prohibited:

| Constituent | Maximum Concentration Limit (mg/l) |
|---|---|
| Arsenic | 0.05 |
| Copper | 1.0 |
| Iron | 0.3 |
| Manganese | 0.05 |
| Mercury | 0.002 |
| Selenium | 0.01 |
| Total Trihalomethanes[1] | 0.1 |

6. The pH of the discharge or recycled water shall be at all times between 6.0 and 9.0 pH units.

7. The discharge of wastewater or recycled water to any pond with less than one foot of freeboard is prohibited.

8. There shall be zero wastewater discharge to local surface waters or tributaries thereof.

## B. WATER RECYCLING REQUIREMENTS

1. The discharger shall be responsible for assuring that recycled water is delivered and utilized in conformance with this Order, the reclamation criteria contained in Title 22, Division 4, Chapter 3, Sections 60301 through 60355, California Code of Regulations, and the "Guidelines for Use of Reclaimed Water" by the California Department of Health Services. The discharger shall conduct periodic inspections of the facilities of the recycled water users to monitor compliance by the users with this Order.

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1 Total Trihalomethanes are the sum of bromodichloromethane, dibromochloromethane, bromofrom, and chloroform.

2. Recycled water supplied to the March Joint Powers Authority Golf Course and Riverside National Cemetery shall be at all times an adequately disinfected, oxidized wastewater. The wastewater shall be considered adequately disinfected if the median number of coliform organisms in the effluent does not exceed 23 per 100 milliliters, as determined from the results of all bacteriological analyses that have been completed during a calendar week, and the number of coliform organisms does not exceed 240 per 100 milliliters in any two consecutive samples.

3. The discharger shall establish and enforce rules and regulations for recycled water users, governing the design and construction of recycled water use facilities and the use of recycled water in accordance with the uniform statewide reclamation criteria established pursuant to the California Water Code Section 13521.

4. The storage, delivery, or use of recycled 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. The use of recycled water shall be in conformance with the wastewater reclamation plan specified in the Basin Plan (Table 5-7). Proposed large-scale wastewater reclamation activities which are not in conformance with the Basin Plan shall be considered for approval by the Regional Board on a case-by-case basis (see also Section B.5, below).

5. Prior to delivering recycled water to any new user, the discharger shall submit to the Regional Board, the California Department of Health Services and the Riverside County Health Department a report containing the following information for review and approval:

    a. The average number of persons estimated to be served at each use site area on a daily basis.
    b. The specific boundaries of the proposed use site area including a map showing the location of each facility, drinking water fountain, and impoundment to be used.
    c. The person or persons responsible for operation of the recycled water system at each use area.
    d. The specific use to be made of the recycled water at each use area.
    e. The methods to be used to assure that the installation and operation of the recycled system will not result in cross connections between the recycled water and potable water piping systems. This shall include a description of the pressure, dye or other test methods to be used to test the system.
    f. Plans and specifications which include the following:
        1) Proposed piping system to be used.
        2) Pipe locations of both the recycled and potable systems.
        3) Type and location of the outlets and plumbing fixtures that will be accessible to the public.
        4) The methods and devices to be used to prevent backflow of recycled water into the potable water system.
        5) Plan notes relating to specific installation and use requirements.

6. The discharger shall ensure that each user designates an on-site supervisor responsible for operation of the recycled water distribution system. The supervisor shall be responsible for enforcing this Order, prevention of potential hazards, the installation, operation and maintenance of the distribution system, maintenance of the distribution and irrigation system plans in "as-built" form, and for the distribution of the recycled wastewater in accordance with this Order.

## C. BIOSOLIDS REQUIREMENTS

1. Collected screenings, biosolids, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with Chapter 15, Division 3, Title 23, of the California Code of Regulations and approved by the Executive Officer.

2. The use and disposal of biosolids shall comply with existing Federal and State laws and regulations, including permitting requirements and technical standards included in 40 CFR 503.

3. Any proposed change in biosolids use or disposal practice from a previously approved practice shall be reported to the Executive Officer and EPA Regional Administrator at least 90 days in advance of the change.

4. The discharger shall take all reasonable steps to minimize or prevent any discharge or biosolids use or disposal which has the potential of adversely affecting human health or the environment.

## D. COMPLIANCE DETERMINATION

1. Compliance with weekly average and monthly average discharge limitations specified under Discharge Specifications A.1. shall be determined from the average of the analytical results of all samples collected during a calendar week or month, respectively.

2. Compliance with the 12-month average limits under Discharge Specifications A.2. and A.3. shall be determined by the arithmetic mean of the last twelve monthly averages.

3. Compliance with the TDS limits specified in Discharge Specifications 2. and 3. shall be based on the calculated effluent concentration after the amount of TDS added by the groundwater cleanup project is subtracted from the measured effluent concentration, by using the following equation:

$C = [(Ae \times Fe) - (Ai \times Fi)] \div [(Fe - Fi)]$

Where:

C = Calculated average monthly TDS concentration of effluent

Ae = Average monthly measured TDS concentration of effluent

Fe = Total effluent flow for the month

Ai = Average monthly TDS concentration of influent from the groundwater remediation activity

Fi = Total influent flow for the month from the groundwater remediation activity

4. In the event that the discharger exceeds the TDS limits specified in Discharge Specification A.2. or A.3., such exceedence shall not be a violation of those limits, provided that:

   a. The discharger demonstrates to the satisfaction of the Regional Board's Executive Officer that:

      1) The exceedence is due to the TDS quality of water supply sources utilized in the discharger's service area; and

      2) That all reasonable steps, as agreed upon by the Executive Officer, have been taken to ensure that best TDS quality supplies are obtained and utilized in the discharger's service area; or

      3) The TDS exceedence(s) are due solely to chemical additions in the treatment process needed to meet waste discharge requirements; and

      4) The discharger has taken all steps to optimize chemical additions so as to minimize the TDS increases; or

   b. The discharger develops and implements, with the approval of the Executive Officer, a plan to mitigate the effects of the exceedence on the affected receiving waters.

5. Compliance determinations shall be based on available analyses for the time interval associated with the effluent limitation. Where only one sample analysis is available in a specified time interval (e.g., weekly or monthly average), that sample shall serve to characterize the discharge for the entire interval.

6. Compliance with TIN discharge specifications in A.2. above applies only to incidental discharge to groundwater from the holding pond. The TIN limitation in A.2. above does not apply to the use of recycled water for irrigation of the March Joint Powers Authority's General Old Golf Course and the Riverside National Cemetery.

## E. REQUIRED NOTICES AND REPORTING REQUIREMENTS

1. Reporting Provisions:

   a. All reports, or information submitted to the Regional Board shall be signed by a responsible officer or duly authorized representative of the discharger and shall be submitted under penalty of perjury.

   b. The discharger shall furnish, within a reasonable time, any information the Regional Board may request to determine compliance with this Order or whether cause exists for modifying, revoking and reissuing, or terminating this Order. The discharger shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.

   c. All reports prepared in accordance with the terms of this Order shall be available for public inspection at the offices of the Regional Board. Knowingly making any false statements on any such report may result in the imposition of criminal penalties as provided for in Section 13387 of the California Water Code.

2. The discharger shall file with the Board by June 1, 2004, a technical report on its preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges and for minimizing the effect of such events. The technical report shall:

   a. Identify the possible sources of accidental loss, untreated waste bypass, and contaminated drainage. Loading and storage areas, power outage, waste treatment outage, and failure of process equipment, tanks, and pipes should be considered.

   b. Evaluate the effectiveness of present facilities and procedures and state when they become operational. Describe facilities and procedures needed for effective preventive and contingency plans.

   c. Predict the effectiveness of the proposed facilities and procedures and provide an implementation schedule containing interim and final dates when they will be constructed, implemented, or operational.

3. The discharger shall provide adequate notice to the Regional Board of:

   a. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to Sections 301 or 306 of the CWA if it were directly discharging those pollutants[2]

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[2] 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.

b. Any change in the volume or character of pollutants being introduced by an existing or new source into the Facility that will cause or threaten to cause a violation of this Order.

4. The discharger shall file a written report with the Regional Board within ninety (90) days after the average dry-weather waste flow for any month equals or exceeds 75 percent of the design capacity of the Facility. The discharger's senior administrative officer shall sign a letter which transmits that report and certifies that the policy making body is adequately informed about it. The report shall include:

   a. Average daily flow for the month, the date on which the instantaneous peak flow occurred, the rate of that peak flow, and the total flow for the day.

   b. The discharger's best estimate of when the average daily dry-weather flow rate will equal or exceed the design capacity of the treatment facilities.

   c. The discharger's intended schedule for studies, design, and other steps needed to provide additional capacity for the waste treatment and/or disposal facilities before the waste flow rate equals the capacity of present units.

5. The discharger shall file with the Regional Board a Report of Waste Discharge at least 120 days before making any material change in the character, location, or volume of the discharge. A material change includes, but is not limited to, the following:

   a. Significantly changing the disposal method or location, such as changing the disposal to another drainage area or water body.

   b. Significantly changing the method of treatment.

   c. Increasing the discharge flow beyond that specified in this Order.

6. The discharger shall report any condition related to the discharger's collection, treatment or disposal facilities that endanger human health or the environment. All available information concerning the condition shall be provided to the Executive Officer or the Executive Officer's designee (909-782-4130) and the Office of Emergency Services (800-852-7550), as soon as the discharger becomes aware of the circumstances. A written report shall be submitted within 5 days and shall contain a description of the condition and its cause; the duration of the condition, including exact dates and times, and, if the condition has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the condition, with a schedule for their implementation. The Executive Officer or the Executive Officer's designee may waive the above-required written report on a case by case basis.

## F. PROVISIONS

1. Neither the treatment nor the discharge of wastes shall create, or threaten to create, a nuisance or pollution as defined in Section 13050 of the California Water Code.

2. Orders No. 88-24, 85-183, and 85-14 are hereby rescinded.

3. The Facility shall be protected from a 100-year frequency flood.

4. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.

5. The Facility shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Title 23, Division 3, Chapter 14 California Code of Regulations.

6. The discharger shall comply with Monitoring and Reporting Program No. R8-2003-0113 as issued by the Executive Officer. Revision of this monitoring and reporting program by the Executive Officer may be necessary to confirm that the discharger is in compliance with the requirements and provisions contained in this Order. Revisions may be made at any time during the term of this Order, and may include a reduction or an increase in the number of parameters to be monitored, the frequency of monitoring or the number and size of samples collected.

7. The discharger shall maintain a copy of this Order at the Facility so that it is available to the Facility operating personnel at all times. Key operating personnel shall be familiar with its content.

8. The discharger shall promptly report to the Regional Board any proposed change in the character, location or method of disposal of the discharge, or any proposed change in ownership of the facility.

9. The discharger shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncompliance.

10. The discharger shall ensure that all facilities and systems of treatment, distribution, and control (and related appurtenances) which are installed or used to achieve compliance with conditions of this Order are at all times properly operated and maintained. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup and auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order.

11. The discharger shall update as necessary, the "Operation and Maintenance Manual (O&M Manual)" which it has developed for the Facility to conform with latest plant changes and requirements. The O&M Manual shall be readily available to operating personnel at the Facility. The O&M Manual shall include the following:

    a. Description of the Facility table of organization showing the number of employees, duties and qualifications and plant attendance schedules (daily, weekends and holidays, part-time, etc.). The description should include documentation that the personnel are knowledgeable and qualified to operate the Facility so as to achieve the required level of treatment at all times.

    b. Detailed description of safe and effective operation and maintenance of treatment processes, process control instrumentation and equipment.

    c. Description of laboratory and quality assurance procedures.

    d. Process and equipment inspection and maintenance schedules.

    e. Description of safeguards to assure that, should there be reduction, loss, or failure of electric power, the discharger will be able to comply with requirements of this Order.

    f. Description of preventive (fail-safe) and contingency (response and cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. These plans shall identify the possible sources (such as loading and storage areas, power outage, waste treatment unit failure, process equipment failure, tank and piping failure) of accidental discharges, untreated or partially treated waste bypass, and polluted drainage.

12. The discharger shall allow the Executive Officer, or any authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

    a. Enter upon premises where a regulated facility or activity is located or conducted, including recycled water treatment or discharge facilities, sludge use and disposal activities, or facilities where records must be kept under the requirements of this Order.

    b. Have access to and copy any records that must be kept under the conditions of this Order. Inspect, photograph, and sample or monitor, at reasonable times, any facilities equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order, including recycled water treatment, discharge, sludge use or disposal sites.

    c. Sample or monitor influent and effluent for the purposes of determining compliance with this permit.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on November 21, 2003.

Gerard J. Thibeault
Executive Officer

California Regional Water Quality Control Board
Santa Ana Region

Monitoring and Reporting Program No. R8-2003-0113
for
Western Municipal Water District
March Wastewater Reclamation Facility
Riverside County

## A. MONITORING AND REPORTING REQUIREMENTS

1. All sampling, sample preservation shall be in accordance with the latest edition of *"Standard Methods for the Examination of Water and Wastewater"* (American Public Health Association) in effect at the time of sampling.

2. All analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services (CDHS) or at laboratories approved by the Executive Officer of the Regional Board.

3. Whenever the discharger monitors any pollutant more frequently than is required by this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharge monitoring report specified by the Executive Officer.

4. The discharger shall assure that records of all monitoring information are maintained and accessible for a period of at least five years from the date of the sample, report, or application. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or by the request of the Board at any time. Records of monitoring information shall include:

    a. The dates, exact place, and time of sampling or measurements;
    b. The individual)s) who performed the sampling, and/or measurements;
    c. The date(s) analyses were performed;
    d. The individual(s) who performed the analyses;
    e. The analytical techniques or methods used;
    f. All sampling and analytical results;
    g. All monitoring equipment calibration and maintenance records;
    h. All original strip charts from continuous monitoring devices;
    i. All data used to complete the application for this Order; and,
    j. Copies of all reports required by this Order.

5. Weekly samples shall be collected on a representative day of the week.

6. Monthly samples shall be collected on a representative day of the month.

7. Quarterly samples shall be collected on a representative day during the months of February, May, August and November.

8. Annual samples shall be collected during the month of August.

## B. INFLUENT MONITORING

A sampling station shall be located upstream of any in-plant return flows and where representative samples of the influent can be obtained. The influent shall be continuously sampled for specific conductance.

## C. EFFLUENT MONITORING

1. A sampling station shall be established for each point of discharge and shall be located where representative samples of the discharge can be obtained.

2. The following shall constitute the effluent monitoring program:

| Constituent | Units | Type of Sample | Minimum Frequency of Sampling and Analysis |
|---|---|---|---|
| Flow | MGD | Flow meter | Continuous |
| pH | pH Units | Grab | Weekly |
| Coliform | MPN/100 ml | " | " |
| Biochemical Oxygen Demand | mg/l | Composite | " |
| Suspended Solids | " | " | " |
| Specific Conductance | µmhos/cm | " | Monthly |
| Total Dissolved Solids | mg/l | " | " |
| Total Inorganic Nitrogen | " | " | " |
| Chloride | " | " | " |
| Sodium | " | " | " |
| Sulfate | " | " | " |
| Fluoride | " | " | " |
| Boron | " | " | " |
| Bromoform | µg/l | Grab | Monthly |
| Bromodichloromethane | " | " | " |
| Chloroform | " | " | " |
| Dibromochloromethane | " | " | " |
| Arsenic | µg/l | Composite | Quarterly |
| Barium | " | " | " |
| Cobalt | " | " | " |

| Constituent | Units | Type of Sample | Minimum Frequency of Sampling and Analysis |
|---|---|---|---|
| Copper | µg/l | Composite | Quarterly |
| Iron | " | " | " |
| Manganese | " | " | " |
| Mercury | " | " | " |
| Selenium | " | " | " |
| EPA Priority Pollutants (See Attached List) | µg/l | Grab | Annually |

3. The freeboard in the effluent holding pond shall be measured every Friday of each week and recorded in a permanent log.

4. A permanent log of all wastes hauled from the wastewater treatment facility for final disposal elsewhere shall be maintained. This should include volume, type, and final disposal site of each waste.

## D. WATER RECLAMATION MONITORING AND REPORTING

Whenever recycled water is supplied to a user, the user name, the date(s) and volume(s) at which recycled water is supplied, and the uses of recycled water shall be recorded on a permanent log and reported monthly.

## E. WATER SUPPLY MONITORING

1. A monthly sample of each source of the water supplied to the sewered area shall be obtained and analyzed for total dissolved solids.

2. Monthly reports shall be submitted stating the amount (in percentage or acre-feet) supplied to the service area from each source of water and the resulting flow-weighted water supply quality for total dissolved solids.

## F. GROUNDWATER CLEANUP PROJECT MONITORING

1. The total flow of treated groundwater from groundwater remediation activities discharged to the Facility shall be determined. The total flow shall be metered and recorded each month.

2. Samples of this waste stream shall be analyzed monthly for total dissolved solids.

## G. REPORTING

1. Monitoring reports shall be submitted by the dates in the following schedule:

| REPORT | REPORTING FREQUENCY | REPORT DUE DATE |
|---|---|---|
| Influent EC Data | Monthly | By the last day of the month following the monitoring period |
| Effluent Analyses | Monthly | " |
| Reclaimed Water Use Log | Monthly | " |
| Water Supply Parameters | Monthly | " |
| Groundwater Clean-up Data (see Section F, above) | Monthly | " |
| Effluent Priority Pollutants Analysis | Annually | " |

2. The discharger shall tabulate the monitoring data to clearly illustrate compliance and/or noncompliance with the requirements of the Order.

3. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

4. The annual report for Effluent Priority Pollutants Analysis shall include a roster of plant personnel, including job titles, duties, and level of state certification for each individual.

5. All reports shall be signed by a responsible officer or duly authorized representative of the discharger and shall be submitted under penalty of perjury.

Ordered by _____
Gerard J. Thibeault
Executive Officer

November 21, 2003

California Regional Water Quality Control Board
Santa Ana Region

November 21, 2003

ITEM: 7

SUBJECT: Waste Discharge and Producer/User Reclamation Requirements, Western Municipal Water District, March Wastewater Reclamation Facility, Riverside County, Order No. R8-2003-0113

DISCUSSION:

Western Municipal Water District owns and operates the March Wastewater Reclamation Facility. The wastewater treatment plant serves the entire March Air Force Base and provides recycled water for the irrigation of the March Joint Powers Authority Golf Course and the Riverside National Cemetery. The design capacity of the facility is 0.75 million gallons per day (MGD). The wastewater treatment system consists of screening, primary sedimentation, trickling filters, secondary clarifiers, chlorine contact tank, effluent holding pond, anaerobic digester and sludge drying beds. Discharges from the facility are currently regulated by waste discharge requirements Order No. 88-24, issued to the U.S. Air Force, March Air Force Base, the former owner/operator of the facility. Order No. 88-24 is being updated to reflect the change of the owner and operator of the facility and changes in the Water Quality Control Plan (Basin Plan) and other plans, policies and regulations adopted by the State and Regional Board.

The Order specifies a 550-mg/l total dissolved solids (TDS) limit, which is based on the water quality objective for the Perris-North Groundwater Subbasin. Water supplied to the service area is State Project Water. The TDS quality of the water supplied in the service area is approximately 200-300 mg/l. A TDS limit based on water supply quality plus a 250 mg/l mineral increment is also specified. The more stringent TDS limit controls the allowable TDS quality of the discharge.

The Air Force is currently conducting groundwater cleanup activities at the base for removal of chlorinated solvents and fuel contamination. To remediate the contamination, the Air Force has installed vapor extraction and carbon adsorption systems. The groundwater extracted for treatment is high in TDS. The treated groundwater is discharged to the wastewater treatment facility. This high TDS groundwater significantly increases the TDS concentration of the effluent from the wastewater treatment plant to levels that exceed the limits specified in this Order.

The treated effluent from the facility is used for irrigation of the March Joint Powers Authority Golf Course and the Riverside National Cemetery, which overlie the same groundwater subbasin where groundwater remediation is conducted. Since the water extracted during the groundwater remediation project will be returned to the same groundwater subbasin from which it is extracted, this Order allows the discharger to mathematically subtract the TDS added by the extracted and treated groundwater when determining compliance with the TDS limits of this Order.

The wastewater holding pond and recycled water use areas overlie an area tributary to the Perris-North Groundwater Subbasin, the beneficial uses of which include municipal and domestic supply, agricultural supply, industrial service supply, and industrial process supply.

The proposed limits in this Order are based on the Water Quality Control Plan for the Santa Ana Basin and other applicable state and federal regulations and are necessary to protect the beneficial uses of the affected receiving waters.

This Order rescinds Order No. 88-24, the previous waste discharge requirements for this facility, and Orders No. 85-183 and 85-14, the water reclamation requirements for the March Air Force Base Golf Course and the Riverside National Cemetery. These water reclamation requirements are now specified in Order No. R8-2003-0113.

RECOMMENDATION:

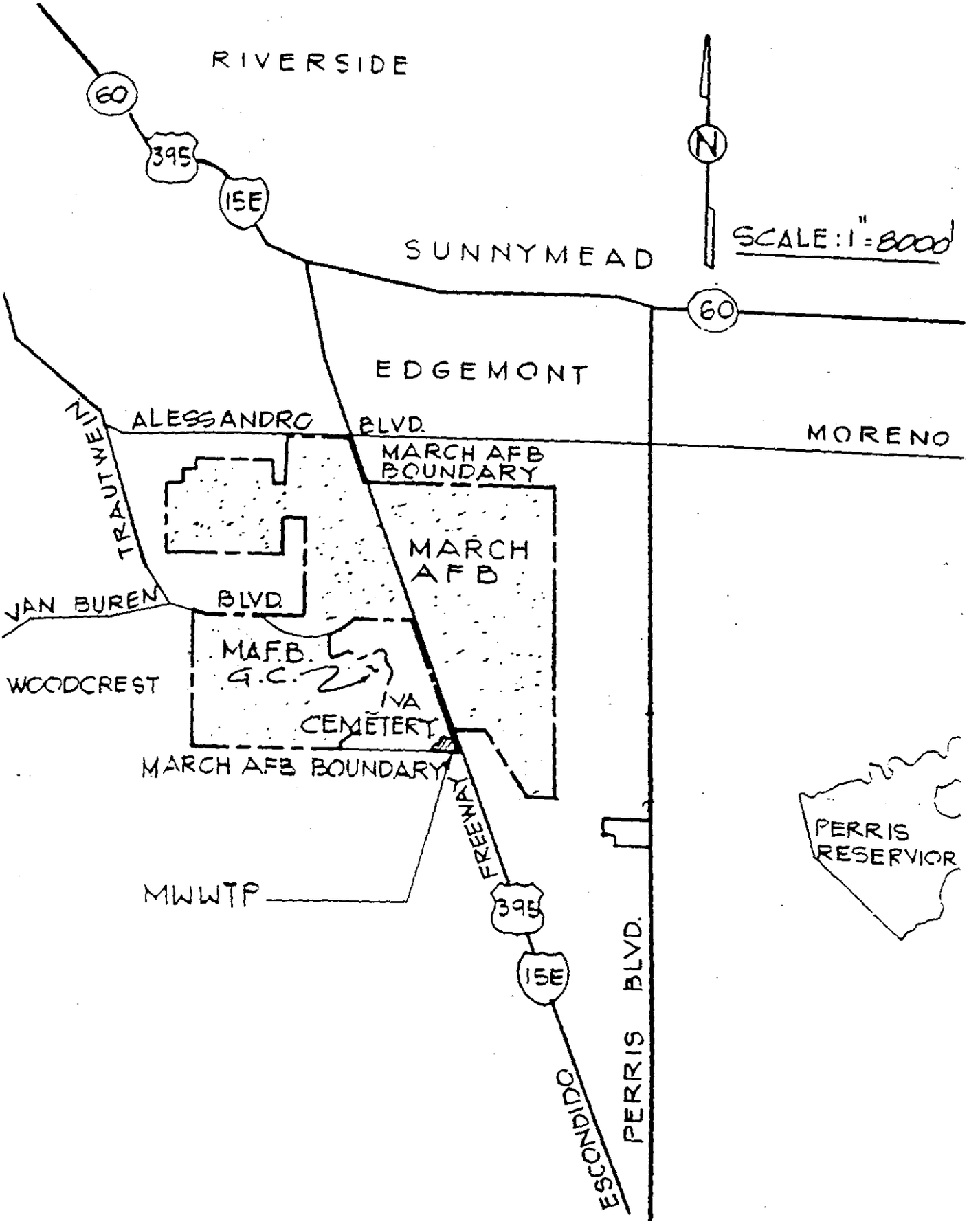
Adopt Order No. R8-2003-0113, as presented.

Comments were solicited from the following agencies:

State Water Resources Control Board, Office of the Chief Counsel – Jorge Leon
State Water Resources Control Board, Division of Water Quality - Jim Maughan
State Department of Water Resources - Glendale
State Department of Health Services - San Diego
Riverside County Environmental Health Services – Sam Martinez
Riverside County Department of Building and Safety - Tom Ingram
Riverside County Flood Control and Water Conservation District - Mark Wills
City of Riverside - City Manager
Eastern Municipal Water District – Anthony J. Pack
March Joint Powers Authority Golf Course
Riverside National Cemetery
Natural Resources Defense Council
Orange County Coastkeeper
Lawyers for Clean Water C/c San Francisco Baykeeper
Western Municipal Water District – Norm L. Thomas

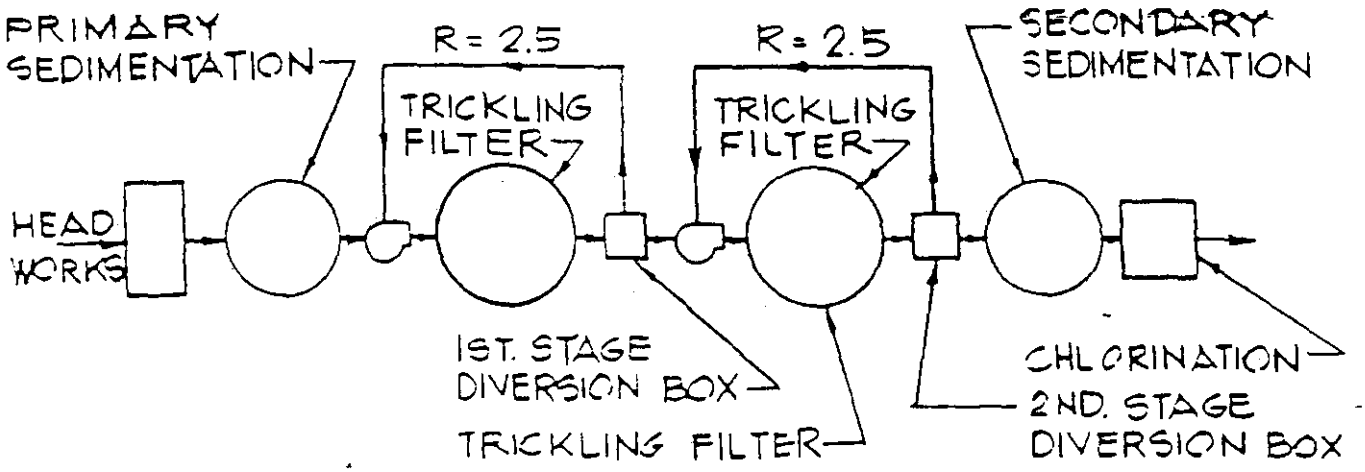
*Attachment "A"*

**LOCATION MAP**



*Attachment "B"*

## TREATMENT SCHEMATIC




0.75 - 1.0 mgd

MARCH AIR FORCE BASE
WASTEWATER TREATMENT PLANT

# California Regional Water Quality Control Board
## Santa Ana Region

**Terry Tamminen**
*Secretary for Environmental Protection*

Internet Address: http://www.swrcb.ca.gov/rwqcb8
3737 Main Street, Suite 500, Riverside, California 92501-3348
Phone (909) 782-4130 - FAX (909) 781-6288

**Arnold Schwarzenegg**
*Governor*


December 8, 2003

Norm L. Thomas, Deputy General Manager
Western Municipal Water District
P.O. Box 5286
Riverside, CA 92517

TRANSMITTAL OF ADOPTED ORDER NO. R8-2003-0113 AND CEASE AND DESIST ORDER NO. R8-2003-0122

Dear Mr. Thomas:

At the regular Board Meeting held on November 21, 2003, the Regional Board adopted Waste Discharge Requirements Order No. R8-2003-0113 and Cease and Desist Order No. R8-2003-0122. A certified copy of each order is enclosed for your records.

Sincerely,

BARBARA LAFFOON
Executive Assistant

Enclosure: Adopted Order No. R8-2003-0113
Adopted Cease and Desist Order No. R8-2003-0122

c. State Water Resources Control Board, Division of Water Quality, James Maughan
United States Environmental Protection Agency, WTR 5, Permits Section, Doug Everhardt

/bjl