California Regional Water Quality Control Board
Los Angeles Region

Linda S. Adams
Agency Secretary

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Arnold Schwarzenegger
Governor

March 3, 2009

Mr. Anthony J. Pepe
Environmental Compliance Manager
California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330

Dear Mr. Pepe:

GENERAL WASTE DISCHARGE REQUIREMENTS FOR SPECIFIED DISCHARGES TO GROUNDWATER IN SANTA CLARA AND LOS ANGELES RIVER BASINS – CALIFORNIA STATE UNIVERSITY, NORTHRIDGE, 18111 NORDHOFF STREET, NORTHRIDGE, CA (Order No. 93-010, CI-9483 Series No. 038, File No. 09-001)

We have completed our review of the California State University, Northridge (CSUN) campus application for Waste Discharge Requirements (WDR) for the discharge of wastewater generated from the water treatment process to produce high quality, contaminant-free water to be used in the operation of the fuel cell. The discharged wastewater is directed to an Irrigation Storage System which is located to the east of the fuel cell. The discharged water will be used to irrigate the Subtropical Rain Forest project located east of Lindley Ave and Prairie Street. CSUN is located within the San Fernando Groundwater Basin and west of the 405 Freeway. CSUN is shown on the site map in Figure 1 (enclosed).

CSUN has initiated an environmentally green project which included the installation of a fuel cell that can produce one megawatt of electricity for use in the campus or delivered to the Utility's electrical grid. The fuel cell supplies electricity to the university based on the local distribution unit. In addition to the electricity generated by the fuel cell, the energy in the exhaust will provide heat for the campus.

A fuel cell is a device that generates electricity by a chemical reaction. Electricity is produced by the reaction that takes place in the fuel cell's electrodes. The fuel cell requires hydrogen and oxygen as basic fuel. The fuel cell used at CSUN uses molten carbonate technology which operates at high temperatures and uses natural gas as the primary fuel. This fuel cell requires superheated, humidified natural gas and heated air to produce electricity. Humidified natural gas is produced by mixing highly purified municipal water and natural gas. The superheated humidified fuel gas is routed to the fuel cell anodes. Fresh air is introduced in the fuel cell so that the reaction converts the chemical energy of the fuel gas to DC power and heat. Figure 2 is a diagram of the fuel cell process.

The fuel cell requires high quality contaminant free water to humidify the natural gas fuel. The municipal water supply used in the fuel cell comes from the Los Angeles Department of Water and Power (LADWP), Los Angeles Filtration Plant. The water provided by LADWP meets the United States Environmental Protection Agency and the State of California Department of Public Health Drinking Water Requirements.

The municipal water supply goes through a water treatment system, at the rate of five to eight gallons per minute (gpm), prior to being used in the fuel cell. The incoming municipal water is purified using the following steps. The organic compounds and chlorine in the municipal water supply are removed by pre-treating the water through a series of three activated carbon filters. The municipal water then goes through a 10 micron particulate filter to remove particulates. It is then softened by removing calcium and magnesium hardness with a resin bed ion exchange process that uses potassium chloride for regeneration. The next step in the purification of the municipal water is reverse osmosis, which is a cross flow process, using a semi-permeable membrane to remove particulates and other impurities from the softened water. Finally the water goes through an electro de-ionization process to "polish" the reverse osmosis permeate. A portion of the purified water is feed to the anode of the fuel cell, at the rate of two to five gallons gpm, to react with natural gas to produce electricity. The remaining portion of the purified water, now considered waste water, is discharged to the collection point. The "reject" water from the water treatment processes of softening, reverse osmosis and electro-deionization is also discharged to the collection point. The collection point is connected to the Irrigation Storage Tank and to the sewer. Figure 3 is a flow diagram of the water treatment system and Irrigation Storage System.

Wastewater discharge from the water treatment system is collected and stored in a 12,300 gallon tank, Irrigation Storage Tank, located east of the fuel cell. The discharge from the purification of municipal water meets the Los Angeles Department of Public Works discharge requirements. Any spills or excess water will be diverted to the sanitary sewer.

Water from the Irrigation Storage Tank is distributed by gravity or pressure to the Subtropical Rain Forest micro-climate project located to the east of the Site. The nature of the project requires close control and monitoring of a number of environmental factors, including erosion, flooding, and irrigation. The subtropical rain forest is 15,113 square feet (sq.ft.) in size. It is divided into three zones, as shown in Figure 4. Within each zone, a specific type of plants will be grown. The subtropical rain forest is irrigated via a series of pipes buried underneath the plants.

The Irrigation Storage System is designed for 5,600 gallons of discharged water from the water treatment system. The daily maximum discharge from the water treatment system is 6,200 gpd. However, the irrigation of the Subtropical Rain Forest is controlled, so any excess water from the Irrigation Storage Tank will be diverted to the sewer.

The average discharge from the water treatment system will contain the same impurities found in the municipal water supplied to the fuel cell, except for the organic contaminants in the municipal water supply that have been adsorbed by the three activated carbon units prior to entering the fuel cell.

Prior to the completion of the of the irrigation system, two water samples were taken at the water purification discharge sample location and analyzed for compliance with Basin Plan Water Quality Objectives The analysis showed the samples to be in compliance. On November 12, 2008, a sample was taken from the irrigation storage tank and analyzed to determine compliance with the State Department of Health Services, Primary Drinking Water

Standards and Secondary Drinking Water Standards and Priority Pollutants as specified in the Attachment "B" of the Order and analysis results showed compliance to the requirements. The sample was also analyzed to determine compliance to Title 22 Drinking Water Standards and the results of the analysis were found to meet the requirements for the compounds analyzed.

Regional Board staff have reviewed the information provided and determined that the proposed discharge meets the conditions specified in Order No. 93-010, "General Waste Discharge Requirements for Specified Discharges to Groundwater in Santa Clara River and Los Angeles River Basins" adopted by this Board on January 25, 1993. This Order regulates the wastewater generated from the purification of the municipal water prior to its use in the fuel cell. It does not include any wastewater generated from the production of electricity in the fuel cell.

Enclosed are the Waste Discharge Requirements Order No. 93-010, Monitoring and Reporting Program CI No. 9483 and Standard Provisions.

The Monitoring and Reporting Program requires you to implement the monitoring program on the date you receive this Order. All monitoring reports should be sent to the Regional Board, ATTN: information Technology Unit.

When submitting monitoring and technical reports to the Regional Board per these requirements, please include a reference to "Compliance File No. CI-9483 which will assure that the reports are directed to the appropriate file and staff. Also, please do not combine other reports with your monitoring and reports. Submit each type of report as a separate document.

In order to avoid future annual fees, please submit a termination certification when the project has been completed and the permit is no longer needed. Please note that the annual fee covers the fiscal year billing period beginning July 1 and ending June 30 of the following year. You are responsible for the annual fee if your request for termination is made after the beginning of a new fiscal year.

We are sending Board Order No. 93-010 only to the applicant. A copy of the Order will be furnished to anyone who requests it.

If you have any additional questions, please contact Project Manager, Ms. Dionisia Rodriguez at (213) 620-6122 or Unit Chief, Dr. Rebecca Chou at (213) 620-6156.

Sincerely,

Tracy J. Egoscue
Executive Officer

Enclosures: See List of Enclosures

Cc: See Mailing List

List of Enclosures

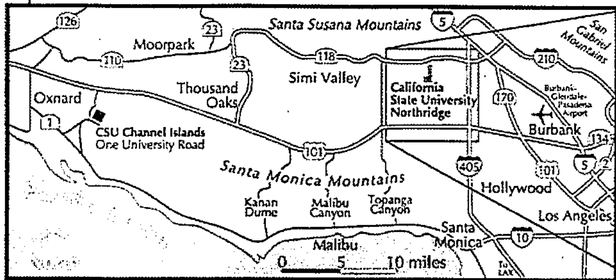
1) Figures 1-4
2) General WDR Order No. 93-010
3) Standard Provisions
4) Monitoring and Reporting Program No. CI-9483

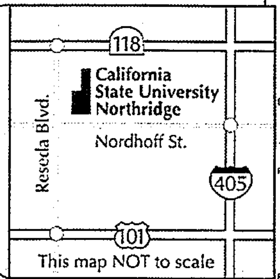
Mailing List

Mr. Patrick Nejadian, Chief EHS, Public Health, Environmental Health

California State University
Northridge

18111 Nordhoff St., Northridge, Ca. 91330
Information (818) 677-1200
Public Safety 677-2111 · www.csun.edu





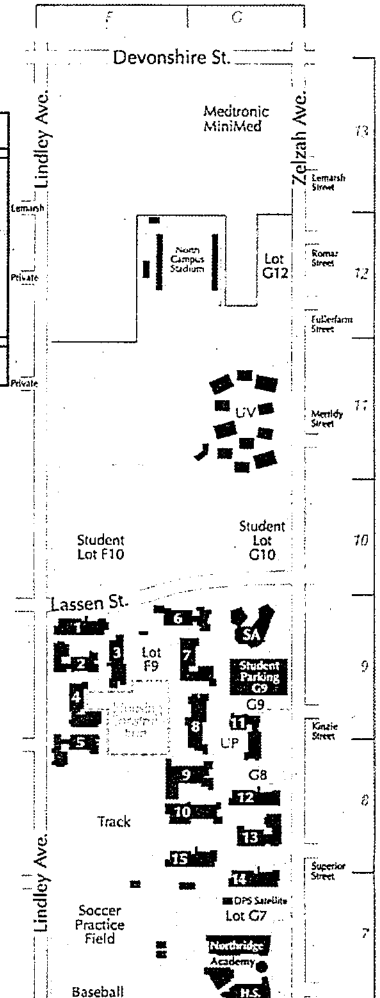
	Building Name—*Grid Location*
AA	Asian American Studies House—*B6*
AC	Art and Design Center—*D6*
AG	Art Gallery—*D6*
AK	Addie Klotz Student Health Center—*F3*
AS	Armer Screening Room—*D2*
B	Bank—*D5*
BC	The Abbott and Linda Brown Western Center for Adaptive Aquatic Therapy—*F5*
BF	Baseball Field—*F7*
BH	Bayramian Hall—*C4*
BK	Bookstore Complex, Matador—*E2*
BL	Black House—*B6*
BP	Donald Bianchi Planetarium—*E3*
CC	Children's Center—*B6*
CH	Chicano House—*D5*
CI	*CSU Channel Islands*
CP	Central Plant—*C6*
CR	Chaparral Hall—*F3*
CS	Citrus Hall—*E3*
CT	Campus Theatre—*C1*
CY	Cypress Hall—*D1*
DPS	Dept. Public Safety, Parking—*B3*
EA	Education Administration—*C5*
ED	Education—*C5*
EF	East Field—*G5*
EH	Eucalyptus Hall—*E3*
FT	Fitness Center/Nautilus—*E6*
GF	Golf —*G6*
GR	Greenhouse—*F3*
HR	(HRCC) High Ropes Challange Course—*E6*
IA	Intercollegiate Athletics Office—*F5*
JA	C.R. Johnson Auditorium, Engineering—*D5*
JC	Jeanne Chisholm Hall/NCOD—*F2*
JD	Jacaranda Hall—*E5*
JH	Juniper Hall—*C5*
JP	Jogging Path—*E6*
JR	Jerome Richfield Hall—*C3*
LO	Live Oak Hall—*E3*
LS	Child and Family Studies Lab School 18330 &18338 Halsted—*B6 and B5*
LT	Little Theatre—*C1*
MA	Matadome—*F5*
MG	Magnolia Hall—*E4*
MH	Monterey Hall—*G1*
MT	Matador Hall—*E6*
MS	MFA Studios—*D6*
MZ	Manzanita Hall—*D2*
NA	Charles H. Noski Auditorium—*C5*
NF	North Field—*F6*
NH	Nordhoff Hall—*C1*
OF	CAM—*(Off Campus—call department)*
OV	Delmar T. Oviatt Library—*D4*
PF	Soccer Practice Field—*F6*
PPM	Physical Plant Mgmt./Corp. Yard—*C6*
PH	Plaza del Sol Performing Hall—*F4*
RE	Redwood Hall—*F5* Pools—*F5* Racquetball Courts—*F5*
RH	Recital Hall—*D1*
SA	Satellite Student Union—*G9*
SF	Softball Field—*F6*
SG	Sagebrush Hall—*E5*
SH	Sierra Hall—*C3*
SI	Sierra Center—*C3*
SN	Santa Susana Hall —*D2*
SO	Soccer Field —*F7*
SQ	Sequoia Hall—*E4*
ST	Sierra Tower—*C3*
STU	Studio Theatre—*C1*
TF	Track—*F8*
TN	Tennis Courts—*G6*
UC	University Club—*F1*
UN	University Hall—*B4*
UP	University Park Apartments—*F-G, 8-9*
USU	University Student Union—*F4*
UV	University Village Apartments—*G11*
WC	Women's Center Building—*B5*

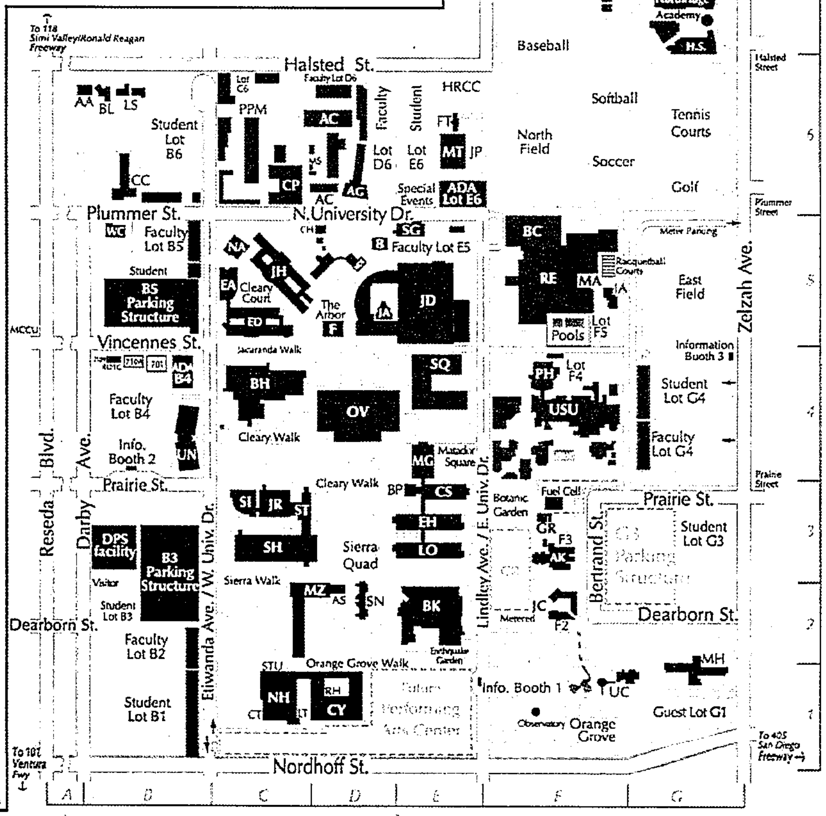
Construction Zone

Americans with Disabilities Act (ADA) Parking

North

0 400 800 1320 feet
0 Scale 1/4 mile





Cartography: Randal Scot Thomson x2127
Public Relations and Strategic Communications
September 4, 2008

Figure 1

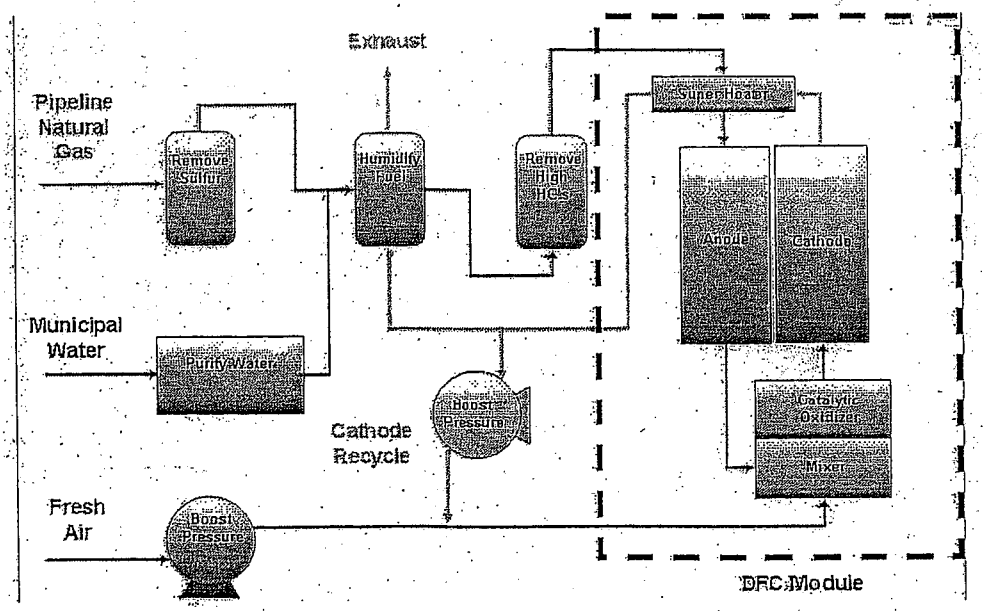


Figure 2

Diagram of the Fuel Cell Process

Fuel Cell & Irrigation Storage System Block Flow Diagram

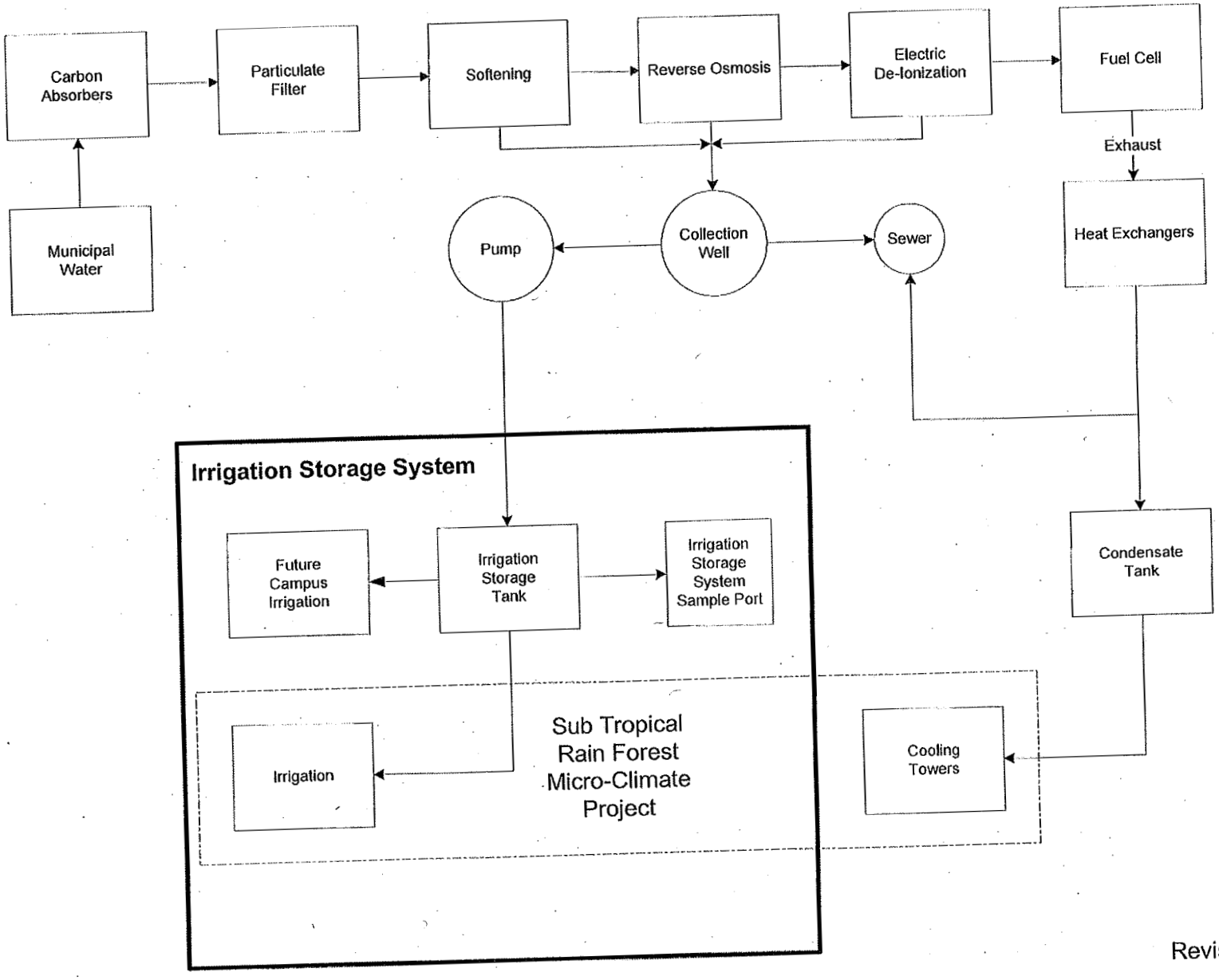


Figure 3

Revised 02-18-09

Final Copy

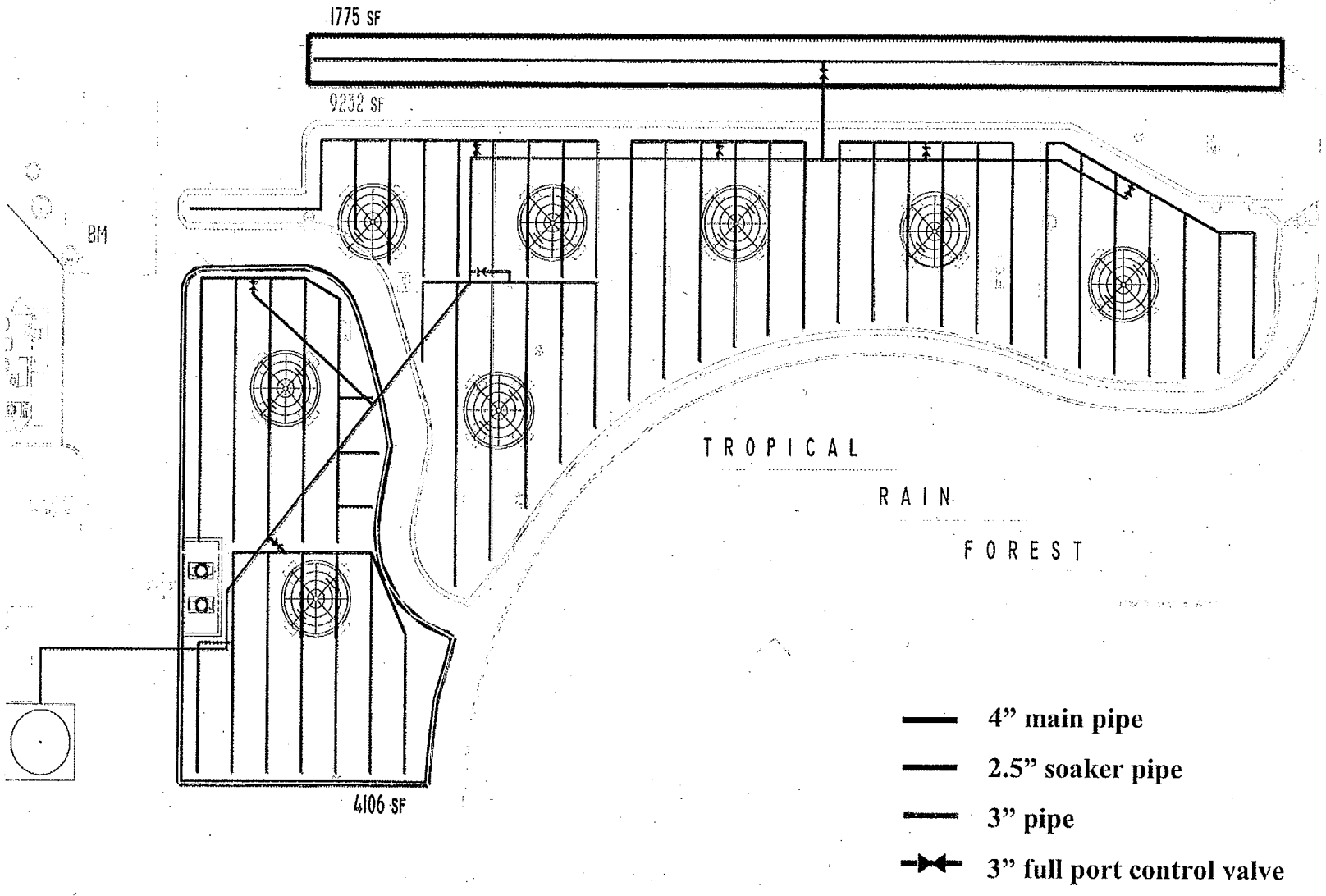


Figure 4

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

ORDER NO. 93-010

GENERAL WASTE DISCHARGE REQUIREMENTS
FOR SPECIFIED DISCHARGES TO GROUNDWATER
IN
SANTA CLARA RIVER AND LOS ANGELES RIVER BASINS
File No. 92-60

The California Regional Water Quality Control Board, Los Angeles Region (hereinafter Regional Board), finds:

1. The California Water Code, Section 13260 of Chapter 4, Article 4, requires that any person discharging wastes, or proposing to discharge wastes, which could affect the quality of the waters of the State, shall file a Report of Waste Discharge with the Regional Board. The Regional Board will then prescribe requirements as to the nature of the proposed or existing discharge.

2. A number of activities carried on within the Region result in the discharge of water that, because of its characteristics, results in little or no pollution when discharged to groundwater. Examples of these activities include:

   a) hydrostatic testing of tanks, pipes, and storage vessels;
   b) construction dewatering;
   c) dust control application;
   d) water irrigation storage systems;
   e) subterranean seepage dewatering;
   f) well development and test pumping;
   g) aquifer testing; and
   h) monitoring well construction.

   The following discharges are specifically excluded from this list: water produced from seawater extraction or wastewater treatment, reclaimed water, and water to be injected directly into an aquifer.

3. The water discharged from these activities results in discharges of relatively "clean" wastewater, containing few pollutants. For the purposes of this Order, "wastewater" is defined as high quality wastewater, produced as a result of the above-listed specified activities, and other similar activities. It is of a quality acceptable for use under State Department of Health Services standards and the Regional Board's Water Quality Control Plan.

4. These discharges occur in a manner where they will likely, through recharge or percolation, enter the groundwater and may therefore, be considered a waste discharge which could affect the quality of the waters of the State, and for which a Report of Waste Discharge must be filed under Water Code Section 13260.

5. Each month, this Regional Board receives a large number of requests to discharge water from the activities listed in Finding 2 above, and for other similar activities. For each such request, staff must determine the absence or presence of significant pollutants in the discharge, the regulatory limits for the pollutants, and the potential impact of the discharge on the waters of the State, and then prepare individual Waste Discharge Requirements.

6. It is anticipated that the large number of such requests will continue to be filed, and far exceed the capacity of staff to review applications and prepare individual Waste Discharge Requirements to bring to the Board for consideration, in a timely manner. These circumstances create the need for an expedited system for processing the numerous requests for discharge to groundwater.

7. The adoption of General Waste Discharge Requirements will:
   a) simplify the application process for the Discharger,
   b) expedite the issuance of Waste Discharge Requirements and decrease the regulatory burden on the regulated community,
   c) free up Board staff for higher priority work, and
   d) reduce the Board's time involved by enabling the Executive Officer to notify the Discharger, in appropriate cases, of the applicability of these general requirements adopted by the Regional Board.

   These General Waste Discharge Requirements would benefit the public, the Board, and Board staff by accelerating the review process without loss of regulatory jurisdiction or oversight.

8. The beneficial uses of groundwater in the Los Angeles River and Santa Clara River Basins may include municipal and domestic supply, agricultural supply, industrial service and process supply, and freshwater replenishment.

9. The Board adopted revised Water Quality Control Plans for the Santa Clara River Basin and Los Angeles River Basin on October 22, 1990, and June 3, 1991, respectively. These Water Quality Control Plans contain water quality objectives for groundwater within the Basins. The requirements contained in this Order, as they are met, will be in conformance with the goals of these Water Quality Control Plans.

10. The State Water Resources Control Board adopted Resolution 68-16, "Statement of Policy With Respect to Maintaining High Quality of Waters in California", on October 28, 1968. This Policy states that wherever the existing quality of water is better than the quality established as objectives or adopted policies, such existing quality shall be maintained.

11. The issuance of General Waste Discharge Requirements for the discharges subject to these general requirements is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code pursuant to one or more of the following:

    a) The lead agency has prepared an Environmental Impact Report or a negative declaration based on findings pursuant to California Code of Regulations (CCR), Title 14, Chapter 3, Section 15070, which show that there will be no significant impact on water quality.
    b) The replacement or reconstruction of existing structures will have substantially the same purpose and capacity as the structure replaced as defined in CCR, Title 14, Section 15302.
    c) The construction of new structures or the conversion of existing small structures will have only minor modifications in the exterior of the structure as defined in CCR, Title 14, Section 15303.
    d) The activity will cause only minor alterations to land as defined in CCR, Title 14, Section 15304.
    e) Minor alterations in land use will not result in any changes in land use or density as defined in CCR, Title 14, Section 15305.

12. These General Waste Discharge Requirements are not intended to alter or supersede existing restrictions or conditions imposed by other government agencies.

The Board has notified interested agencies and concerned persons of its intent to adopt General Waste Discharge Requirements for specified discharges to groundwater, and has provided them with an opportunity to submit their written views and recommendations.

The Board, in a public meeting, heard and considered all comments pertaining to the tentative requirements.

IT IS HEREBY ORDERED that the Dischargers authorized under this order shall comply with the following:

A. ELIGIBILITY

1. The General Waste Discharge Requirements, contained in this Order, will regulate discharges to groundwater from: hydrostatic testing of tanks, pipes and storage vessels; construction dewatering; dust control application; water irrigation storage systems; subterranean seepage dewatering; well development and test pumping; aquifer testing; monitoring well construction; and other similar discharges, in accordance with the California Code of Regulations.

To qualify for coverage under this Order, the Discharger may be required to:

a) submit specific hydrogeological site studies summarizing the following: regional and local hydrogeology, a site plan designating structures and operations, descriptions and details of representative water supply and monitoring wells, and water conveyance systems, soil engineering analyses of representative earth materials including site lithology, permeability, infiltration data, and any potential adverse impacts on groundwater.

b) demonstrate that the discharge meets the criteria set forth herein, and that specified discharges to groundwater will not adversely impact the overall quality of the regional and local groundwater basin(s), and is in accordance with the appropriate Basin Plan Water Quality Objectives, State Department of Health Services (DHS) Primary and Secondary Drinking Water Standards, and all water quality standards associated with Priority Pollutants.

c) demonstrate that disinfectants, if used, will not adversely impact water quality in the groundwater basin(s).

2. The discharge must not adversely impact the overall quality of the regional and local groundwater basins, must not adversely affect beneficial uses, and must have water quality characteristics in accordance with Basin Plan Water Quality Objectives, State Department of Health Services'(DHS) Primary and Secondary Drinking Water Standards, and all water quality standards associated with Priority Pollutants.

B. APPLICABILITY

1. This Order will serve as General Waste Discharge Requirements for specified discharges to groundwater.

2. Upon receipt of the Report of Waste Discharge describing such discharge, the Executive Officer shall determine, as applicable, if such discharge,

a) involves wastewater at limits lower than, or equal to, the acceptable levels of the Basin Plan Water Quality Objectives, the State DHS Primary and Secondary Drinking Water Standards, and all water quality standards associated with Priority Pollutants,
b) will be completed within a time frame stated by the Discharger and approved by the Executive Officer,
c) has been adequately characterized by hydrogeologic assessment,
d) is not a threat to water quality,
e) does not cause the degradation of groundwater, and
f) does not threaten or impair any designated beneficial uses of such waters.

3. In the event the Executive Officer so finds, he shall notify the Discharger, in writing, that the proposed wastewater discharge to groundwater is subject to this Order. Appropriate cases may also be brought to the Board for adoption of individual requirements when the Executive Officer deems it desirable or necessary.

4. Should individual Waste Discharge Requirements with more specific requirements be issued to a Discharger, the applicability of these general requirements to the individual will be automatically terminated on the effective date of the individual Waste Discharge Requirements.

C. REPORT OF WASTE DISCHARGE

1. Deadline for Submission

All Dischargers shall file a Report of Waste Discharge at least 120 days before start of the discharge. The Executive Officer will determine the applicability of General Waste Discharge Requirements.

2. Failure to Submit a Report of Waste Discharge

Dischargers who fail to file a Report of Waste Discharge under Section 13260 of the California Water Code are guilty of a misdemeanor and may be liable civilly in accordance with Section 13261(b) of the California Water Code.

D. PROHIBITION

1. Discharge of wastewater is prohibited, except as specified in the Report of Waste Discharge.

E. WASTE DISCHARGE REQUIREMENTS

IT IS HEREBY ORDERED that the Discharger shall comply with the following:

1. Only those types of discharges specifically listed in the Report of Waste Discharge are authorized to be discharged by the General Waste Discharge Requirements.

2. Wastewater shall be analyzed, prior to discharge, to determine if it contains constituents in excess of the appropriate Basin Plan Water Quality Objectives, as listed in Tables 1 and 2 of Attachment "A".

   Hydrologic and groundwater basin boundaries are included in Figures 1 and 2 of Attachment "A".

3. Wastewater shall be analyzed, prior to discharge, to determine that it does not contain constituents in excess of the Maximum Contaminant Levels (MCL) as listed in the State DHS Primary and Secondary Drinking Water Standards in Attachment "B".

4. Wastewater shall be analyzed, prior to discharge, to determine the concentrations of the chemical constituents listed in the Priority Pollutants exhibited in Attachment "B". ←

5. Wastewater which contains any constituent in excess of the MCL's, the Drinking Water Standards, or the Priority Pollutant standards, listed herein, shall not be discharged to groundwater.

6. Wastewater discharged to groundwater shall maintain the existing water quality, even if that existing water quality exceeds established objectives. A determination shall be made by the Executive Officer as to the applicability of water quality standards with regard to the "Statement of Policy With Respect to Maintaining High Quality of Waters in California", with each discharge, on a site-specific basis.

7. Neither the treatment nor discharge of wastewater shall cause a condition of pollution or nuisance.

8. The pH of wastewater discharged to groundwater, under this Order, shall at all times be within the range of 6.0 and 9.0 pH units.

9. Wastewater to be discharged to groundwater, under this Order, shall be retained on the areas of use, and shall not be allowed to escape as surface flow, except as provided in a National Pollutant Discharge Elimination System (NPDES) permit uniquely applicable to the specified discharge. For the purpose of this requirement, however, minor amounts of irrigation return water from peripheral areas shall not be considered a violation of this Order.

10. Wastewater discharged to groundwater shall be discharged at the site in accordance with these requirements, and only on property owned or controlled by the Discharger.

11. Wastewater which does not meet each of the foregoing requirements shall be held in impervious containers, and if transferred elsewhere, the final discharge shall be at a legal point of disposal, and in accordance with the provisions of Division 7.5 of the California Water Code. For the purpose of these requirements, a legal point of disposal is defined as one for which Waste Discharge Requirements have been established by a California Regional Water Quality Control Board, and which is in full compliance therewith.

12. Wastewater discharged to groundwater shall not contain any substance in concentrations toxic to human, animal, plant, or aquatic life.

13. Wastewater discharged to groundwater shall not impart tastes, odors, color, foaming, or other objectionable characteristics to the receiving groundwater.

14. Neither disposal nor handling of wastes shall cause a condition of pollution or nuisance or problems due to breeding of mosquitos, gnats, midges, flies or other pests.

15. The temperature of discharged wastewater shall not exceed 100°F.

F. PROVISIONS

1. A copy of this Order shall be maintained at the discharge facility and shall be available at all times to operating personnel.

2. In the event the Discharger is unable to comply with any of the conditions of this Order due to:
   (a) Breakdown of equipment,
   (b) Accidents caused by human error or negligence,
   (c) Other causes such as acts of nature,
   (d) Facility operations,
   the Discharger must notify this Board, by telephone, within 24 hours of the incident, and confirm it in writing within one week of the telephone notification.

3. In accordance with Section 13260(c) of the California Water Code, the Discharger shall file a report with this Regional Board of any material change or proposed change in the character, location and/or volume of the discharge.

4. In accordance with Section 13267(b) of the California Water Code, the Discharger shall furnish, under penalty of perjury, technical monitoring program reports; such reports shall be submitted in accordance with specifications prepared by the Executive Officer.

5. The Regional Board and other authorized representatives shall be allowed:

   (a) Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;
   (b) Access to copy any records that are kept under the conditions of this Order;
   (c) To inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and
   (d) To photograph, sample, and monitor for the purpose of assuring compliance with this Order, or as otherwise authorized by the California Water Code.

6. In accordance with Section 13263(e) of the California Water Code, these Waste Discharge Requirements are subject to periodic review and revision by this Regional Board.

7. These requirements, prescribed herein, do not authorize the commission of any act, by the Discharger, which causes injury to the property of another, do not protect the Discharger from his/her liabilities under Federal, State, or local laws, and do not guarantee the Discharger a capacity right in the receiving groundwater.

8. If hazardous or toxic materials or hydrocarbons are stored at the facility and the facility is not monitored at all times, a 24-hour emergency response telephone number shall be prominently posted where it can be easily discerned.

G. MONITORING REQUIREMENTS

1. The Executive Officer may prescribe a Monitoring and Reporting Program for each authorized Discharger; applicable parameters limited in the discharge shall be monitored as specified by the Executive Officer in the Monitoring and Reporting Program.

2. The Discharger shall retain records of all monitoring information and data used to complete the Report of Waste Discharge for at least three years from the date of sampling, measurement, report, or application. The retention period shall be extended during the course of any unresolved litigation regarding the discharge, or when requested by the Regional Board.

3. The Discharger shall maintain all sampling, measurement and analytical results, including: the date, exact place, and time of sampling or measurement; the individual(s) who performed the sampling or measurement; the date(s) analyses were performed; analysts' names; and analytical techniques or methods used.

4. Representative samples of the discharge shall be taken prior to discharging to the groundwater.

5. All chemical and bacteriological analyses shall be conducted at a laboratory certified for such analyses by the State of California Department of Health Services. The laboratory performing the analyses must follow all applicable QA/QC protocols.

6. The Discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to insure accuracy of measurements, or shall insure that both activities will be conducted.

H. REPORTING REQUIREMENTS

1. The Discharger shall file with the Regional Board (Attention: Technical Support Unit) technical reports on self-monitoring work performed according to the Monitoring and Reporting Program specified by the Executive Officer, and submit other reports as requested by the Regional Board.

2. In reporting the monitoring data, the Discharger shall arrange the data in tabular forms such that the date, constituents, and concentrations are readily discernable. The data shall be summarized to demonstrate compliance with Waste Discharge Requirements.

3. All records and reports submitted to the Regional Board are public documents and will be made available for inspection by the public during normal business hours at the Regional Board office located at 101 Centre Plaza Drive in Monterey Park.

4. 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.

5. Each monitoring report must affirm in writing that: "All analyses were conducted at a laboratory certified for such analyses by the State of California Department of Health Services, and in accordance with current EPA guideline procedures or as specified in this Monitoring Program."

6. Each report shall contain the following completed declaration:
"I declare under penalty of law that I have personally examined, and am familiar with, the information submitted in this document and all attachments, 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 if fine and imprisonment. [CWC Sections 13263, 13267, and 13268]

7. In the event that wastes, associated with the discharge under this Order, are transported to a different disposal site, the following shall be reported in the monitoring report: type and quantity of wastes; name and address of hauler (or method of transport if other than by hauling); and, location of the final point(s) of disposal.

8. In the event of any changes of subject land ownership or subject waste discharge facility currently owned or controlled by the Discharger, the Discharger shall notify the succeeding owner or operator of the existence of this Order in writing. A copy of the document shall be signed by the new owner accepting responsibility for this Order and shall be forwarded to this Regional Board.

9. The Discharger shall notify this Regional Board, within 24 hours, by telephone, of any adverse condition resulting from this discharge, and such notification shall be affirmed in writing within seven calendar days.

I. EXPIRATION DATE AND CONTINUATION OF EXPIRED GENERAL WASTE DISCHARGE REQUIREMENTS

It is the Board's intent to review this Order within five (5) years of its adoption.

I, Robert P. Ghirelli, 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, Los Angeles Region, on January 25, 1993.

Robert P. Ghirelli

ROBERT P. GHIRELLI, D.Env.
Executive Officer

Attachment "A"

Groundwater Water Quality Objectives
Santa Clara River (4A)
Los Angeles River (4B)

Hydrologic Boundaries, CRWQCB-LA
Fig 1, Principal Surface Waters
Fig 2, Principal Ground Waters

Water Quality Objectives for Ground Waters
Santa Clara River Basin (4A)

Area	Objective in mg/L TDS	Sulfate	Chloride	Boron
Rincon Creek Hydrologic Unit[a]	None Specified (n/s)			
Ventura River Hydrologic Unit				
Ojai Hydrologic Area (HA)				
Upper Ojai Hydrologic Subarea (HSA)				
West of Sulphur Mtn Rd	1,000	300	200	1.0
East of Sulphur Mtn Rd	700	50	100	1.0
Ojai HSA[b]				
West of San Antonio-Senior Cyn Creek	1,000	300	200	0.5
East of San Antonio-Senior Cyn Creek	700	200	50	0.5
Upper Ventura River HA				
San Antonio Creek Area	1,000	300	100	1.0
Remainder of ground water basin	800	300	100	0.5
Lower Ventura River HA[c]	None Specified			
Santa Clara-Calleguas Hydrologic Unit				
Upper Santa Clara HA				
Acton HSA	600	150	100	1.0
Eastern HSA				
Above Bouquet Cyn[d]	800	150	150	1.0
Above Castaic Creek to Bouquet Cyn[e]	900	300	150	1.0
South Fork of Santa Clara River Area	1,300	800	100	0.5
Placerita Cyn Area	700	150	100	0.5
Castaic Creek to Blue Cut[f]	1,500	700	150	1.0
Bouquet HSA	400	50	30	0.5
Mint Cyn HSA	700	150	100	0.5
Sierra Pelona HSA	600	100	100	0.5
Piru HA				
Santa Felicia HSA (Piru Subarea)				
East of Piru Creek[g]	2,500	1,200	200	1.5
West of Piru Creek[h]	1,200	600	100	1.5
Upper Piru HSA	1,100	400	200	2.0
Hungry Valley HSA	500	150	50	1.0
Stauffer HSA	1,000	300	20	2.0
Sespe HA				
Fillmore HSA				
Pole Creek Fan underlying City of Fillmore	2,000	800	100	1.0
South Side of Santa Clara River	1,500	800	100	1.1
Remainder of ground water basin	1,000	400	50	0.7
Topa Topa HSA (Sespe Subarea)	900	350	30	2.0
Santa Paula HA				
Santa Paula HSA				
East of Peck Rd	1,200	600	100	1.0
West of Peck Rd	2,000	800	110	1.0
Sisar HSA	700	250	100	0.5
Oxnard Plain HA				
Oxnard HSA				
Oxnard Forebay	1,200	600	150	1.5
Deep aquifers underlying pressure area	1,200	600	150	1.5
Semiperched aquifer[i]	3,000	1,000	500	n/s

Water Quality Objectives for Ground Waters
Santa Clara River Basin (4A)

Area	Objective in mg/L TDS	Sulfate	Chloride	Boron
Oxnard Plain HA (continued from previous page)				
Pleasant Valley HSA				
Fox Cyn Aquifer	1,200	600	150	1.0
Grimes Cyn Aquifer	1,200	600	150	1.0
Upper Aquifer[j]	None Specified			
Calleguas-Conejo HA				
West Las Posas HSA	900	350	150	1.0
East Las Posas HSA[k]				
NW of Grimes Cyn Rd, L.A. Avenue and Somis Rd	700	300	100	0.5
East of Grimes Cyn Rd and Hitch Blvd	2,500	1,200	400	3.0
South of L.A. Ave between Somis Rd and Hitch Blvd	1,500	700	250	1.0
Isolated basin near Grimes Cyn Rd and Broadway Rd	250	30	30	0.2
Arroyo Santa Rosa HSA	900	300	150	1.0
Conejo Valley HSA	800	250	150	1.0
Tierra Rejada Valley HSA	700	250	100	0.5
Gillibrand HSA	900	350	50	1.0
Simi Valley HSA				
Deep aquifers	1,200	600	150	1.0
Shallow aquifer[l]	None Specified			
Thousand Oaks HSA	1,400	700	150	1.0

.....Endnotes

a. Upper aquifers are of very poor quality and not used for domestic, agricultural, or industrial water supply in any significant quantity. Water quality in shallow aquifers shall be maintained at existing levels in accordance with "Resolution 68-16". This is to be accomplished on case-by-case basis as part of the requirements imposed upon dischargers to the shallow aquifers.

b. Excludes aquifer in Bouquet Canyon and tributaries.

c. Shallow alluvial aquifer is of very poor quality and not used. Water quality in shallow aquifer shall be maintained at existing levels in accordance with "Resolution 68-16". This is to be accomplished on a case-by-case basis as part of the requirements imposed upon dischargers to the shallow aquifer.

d. See endnote b.

e. Includes aquifer in Bouquet Canyon and tributaries but excludes aquifer in Castaic Creek and the South Fork of Santa Clara River and tributaries.

f. Includes aquifer in Castaic Creek and tributaries.

g. Includes aquifer in Piru Creek and tributaries.

h. Excludes aquifer in Piru Creek and tributaries.

i. Semiperched aquifer is generally of poor quality, but locally may be used for agricultural and domestic purposes in northwestern parts of the Oxnard Plain. Where shallow well or drainage ditch waters clearly exceed these objectives, requirements should be set on a case-by-case basis according to "Resolution 68-16".

j. See endnote a.

k. Some isolated wells along Los Angeles Avenue in the Arroyo Las Posas flood plain have higher mineral levels. Requirements for these areas should be set on a case-by-case basis according to "Resolution 68-16".

l. See endnote a.

Water Quality Objectives for Ground Waters
Los Angeles River Basin (4B)

Area	Objective in mg/L			
	TDS	Sulfate	Chloride	Boron
Malibu Hydrologic Unit				
Topanga Hydrologic Area (HA)	2,000	500	500	2.0
Malibu Creek Hydrologic Subarea (HSA)	2,000	500	500	2.0
Las Virgenes HSA	2,000	500	500	2.0
Lindero Canyon HSA	2,000	500	500	2.0
Triunfo Canyon HSA	2,000	500	500	2.0
Russell Valley HSA	1,500	500	250	1.0
Sherwood HSA	1,000	250	250	1.0
Point Dume HA	1,000	250	250	1.0
Camarillo HA	1,000	250	250	1.0
Los Angeles-San Gabriel River Hydrologic Unit				
Coastal Plain HA				
West Coast Basin	800	250	250	1.5
Santa Monica Basin	1,000	250	250	0.5
Hollywood Basin	750	100	100	1.0
Central Basin	700	250	250	1.0
San Fernando HA				
Sylmar Basin	600	150	100	0.5
Eagle Rock Basin	800	150	100	0.5
Verdugo Basin	600	150	100	0.5
San Fernando Basin-Overall	800	300	100	1.5
Narrows Area[a]	900	300	150	1.5
Foothill Wells Area[b]	400	100	50	1.0
Headworks Area[c]	700	300	100	1.5
North Hollywood-Burbank Area[d]	600	250	100	1.5
Raymond HA				
Monk Hill HSA	450	100	100	0.5
Pasadena HSA	450	100	100	0.5
Santa Anita HSA	450	100	100	0.5
San Gabriel Valley HA				
Puente Basin[e]	1,000	300	150	1.0
Main San Gabriel Basin-Overall	550	150	100	1.0
Westerly Portion[f]	450	100	100	0.5
Easterly Portion[g]	600	100	100	0.5
Spadra Hydro HA				
Spadra HSA	550	200	120	1.0
Pomona HSA	300	100	50	0.5
Live Oak HSA	450	150	100	0.5
Anaheim HA	1,000	250	250	1.0
San Pedro Channel Island Hydrologic Unit				
Santa Catalina HA	1,000	250	250	1.0
San Clemente Island HA	no significant sources			
Santa Barbara Island HA	no significant sources			
Santa Ana River Hydrologic Unit				
Middle Santa Ana River HA	220	50	50	0.5

.....Endnotes

a. Narrows Area is defined as that area of the San Fernando Basin adjacent to the Los Angeles River lying east of Verdugo Wash.

b. Foothill Wells is the main extraction area in the Sundland-Tujunga Area.

c. Headworks Area is that area lying adjacent to the Los Angeles River upstream of the confluence with Verdugo Wash encompassing in general the City of Los Angeles' Headworks, Crystal Springs, and Verdugo wells and the City of Glendale's wells among others.

d. The North Hollywood-Burbank Area refers to the principal extraction area which includes the City of Burbank's wells, and the City of Los Angeles, North Hollywood, Erwin, and Whitnall wells among others.

e. The Puente Basin lies adjacent to San Jose Creek upstream of the Puente Narrows. The Puente Basin and the Puente Narrows are described in the Judgment of the Upper San Gabriel Valley Municipal Water District versus City of Alhambra et al No.924128.

f. The westerly portion of the Main San Gabriel Basin which lies west of Walnut Creek, Big Dalton Wash, and Little Dalton Wash.

g. The easterly portion of the Main San Gabriel Basin which lies east of Walnut Creek, Big Dalton Wash, and Little Dalton Wash but does not include the Puente Basin.

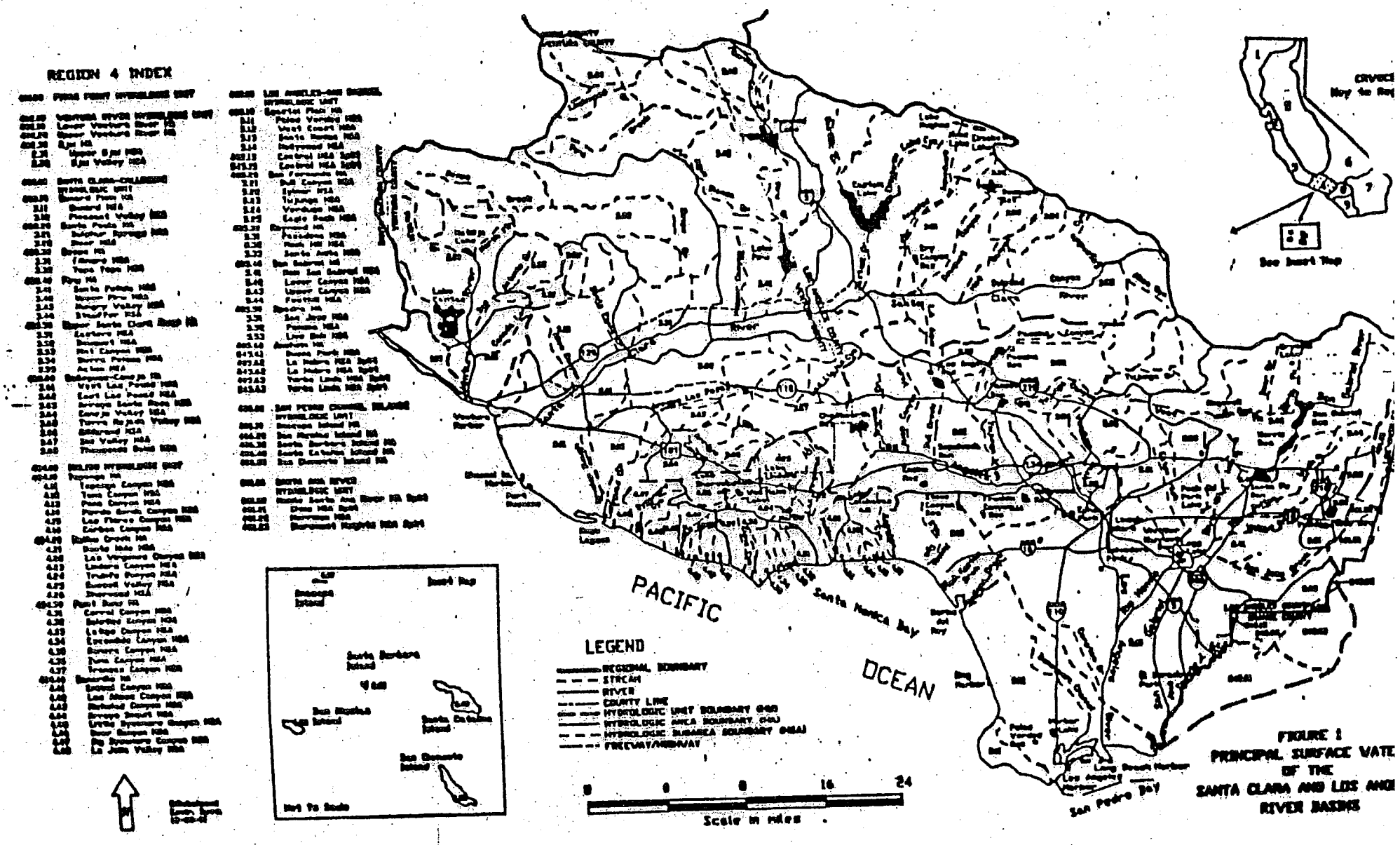


FIGURE 1
PRINCIPAL SURFACE WATE
OF THE
SANTA CLARA AND LOS ANG
RIVER BASINS

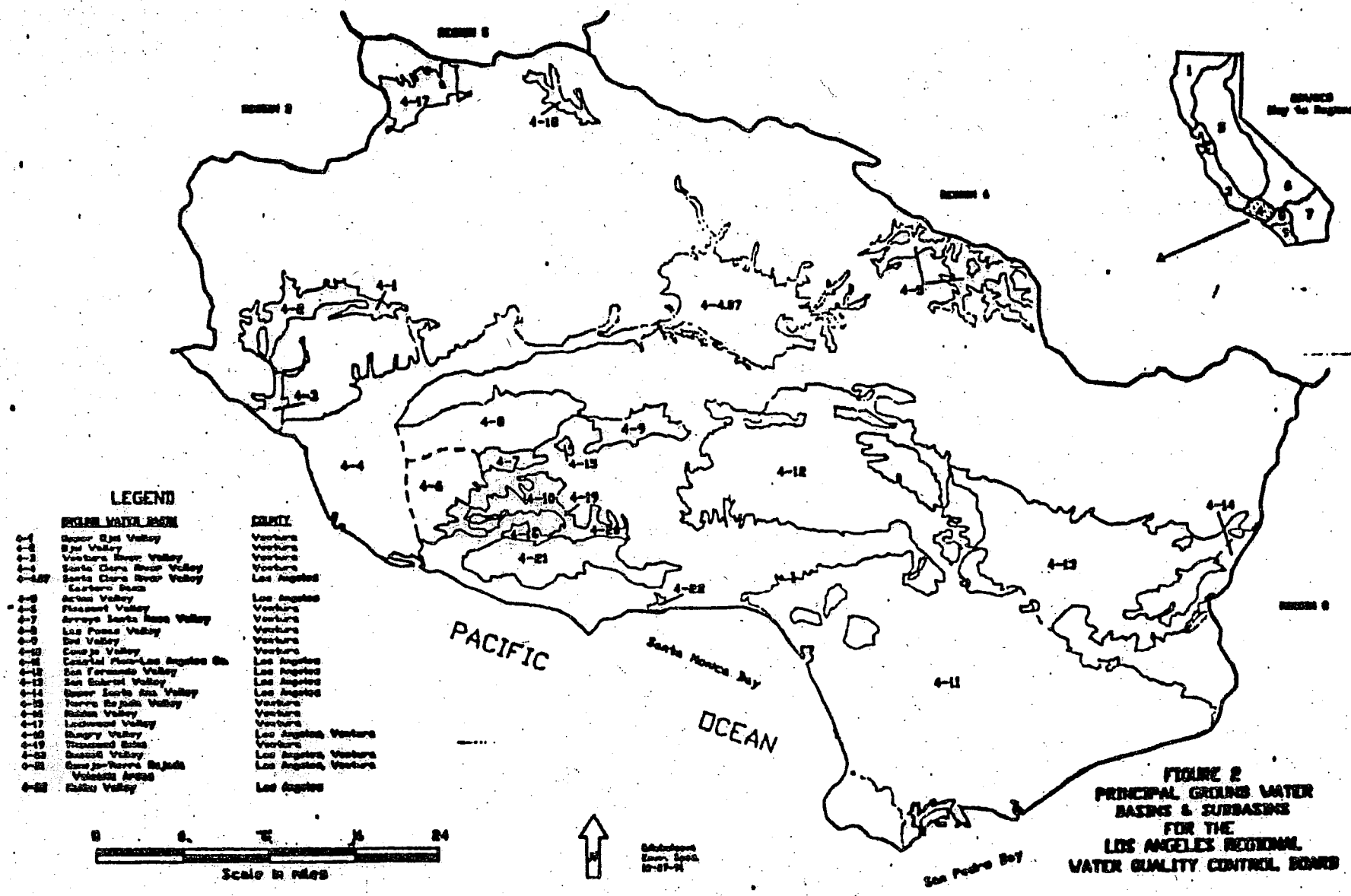


FIGURE 2
PRINCIPAL GROUND WATER
BASINS & SUBBASINS
FOR THE
LOS ANGELES REGIONAL
WATER QUALITY CONTROL BOARD

Attachment "B"

State Department of Health Services
Primary Drinking Water Standards
Secondary Drinking Water Standards

Priority Pollutants

Attachment "B": Drinking Water Standards and Priority Pollutants

State DHS Primary Drinking Water Standards, Maximum Contaminant Level (MCL)			
MCL	Constituent	MCL	Constituent
Organic Compounds, MCL units of milligrams per liter (mg/L)			
0.005	1,1-Dichloroethane (1,1-DCA)	0.006	1,1-Dichloroethylene (1,1-DCE)
0.200	1,1,1-Trichloroethane (1,1,1-TCA)	1.2	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)
0.032	1,1,2-Trichloroethane (1,1,2-TCA)	0.001	1,1,2,2-Tetrachloroethane
0.0005	1,2-Dichloroethane (1,2-DCA)	0.005	1,2-Dichloropropane (Propylene dichloride)
*a	1,3-Dichloropropane	*a	1,3-Dichloropropane
0.005	1,4-Dichlorobenzene (p-DCB)	0.1	2,4-D
0.05	2,4,5-TP (Silvex)	0.003	Atrazine (AAtrex)
0.018	Bentazon (Basagran)	0.001	Benzene
*a	Bromodichloromethane	*a	Bromoform
0.018	Carbofuran (Furadan)	0.0005	Carbon tetrachloride
0.0001	Chlordane	0.030	Chlorobenzene (Monochlorobenzene)
*a	Chloroform	0.006	cis-1,2-Dichloroethylene
0.004	Di(2-ethylhexyl)phthalate (DEHP)	*a	Dibromochloromethane
0.0002	Dibromochloropropane (DBCP)	0.0002	Endrin
0.680	Ethylbenzene (Phenylethane)	0.00002	Ethylene dibromide (EDB)
0.7	Glyphosate	0.00001	Heptachlor epoxide
0.00001	Heptachlor	0.004	Lindane (gamma-BHC)
0.1	Methoxychlor	0.02	Molinate (Ordram)
0.01	Simazine (Princep)	0.005	Tetrachloroethene (PCE)
0.07	Thiobencarb (Bolero)	0.005	Toxaphene
0.01	trans-1,2-Dichloroethylene	0.005	Trichloroethene (TCE)
0.15	Trichlorofluoromethane (Freon 11)	0.0005	Vinyl chloride (VC)
1.75	Xylenes		

State DHS Primary Drinking Water Standards, Maximum Contaminant Level (MCL)			
MCL	Constituent	MCL	Constituent
Inorganic/Physical Constituents, MCL units of milligrams/liter (mg/L)			
1.0	Aluminum (Al)	0.05	Arsenic (As)
1.0	Barium (Ba)	0.01	Cadmium (Cd)
0.05	Chromium, total (Cr)	2.4	Fluoride (F) temp < 53.7 °F
2.2	Fluoride (F) temp 53.8-58.3 °F	2.0	Fluoride (F) temp 58.4-63.8 °F
1.8	Fluoride (F) temp 63.9-70.6 °F	1.6	Fluoride (F) temp 70.7-79.2 °F
1.4	Fluoride (F) temp 79.3-90.5 °F	0.05	Lead (Pb)
0.002	Mercury (Hg)	45.0	Nitrate (NO_3)
0.01	Selenium (Se)	0.05	Silver (Ag)
Radio Chemistry, MCL units of pico Curies per liter (pCi/L)			
15 (pCi/L)	Gross Alpha (α)	50 (pCi/L)	Gross Beta (β)
5 (pCi/L)	Combined Radium 226+228 ($Ra^{226,228}$)	8 (pCi/L)	Strontium-90 (Sr^{90})

State DHS Secondary Drinking Water Standards			
MCL (units)	Constituent	MCL (units)	Constituent
250 mg/L	Chloride (Cl)	15 units	Color
900 μmhos	Conductivity	1.0 mg/L	Copper (Cu)
0.5 units	Foaming agent (MBAS)	0.3 mg/L	Iron (Fe)
0.05 mg/L	Manganese (Mn)	250 mg/L	Sulfate (SO_4)
500 mg/L	Total dissolved solids (TDS)	5 units	Turbidity
5.0 mg/L	Zinc (Zn)		

Priority Pollutants: Acid Extractables		
2,4,Trichlorophenol	P-Chloro-M-Cresol	2-Chlorophenol
2,4-Dichlorophenol	2,4-Dimethylphenol	2-Nitrophenol
4-Nitrophenol	2,4-Dinitrophenol	4,6-Dinitro-o-cresol
Pentachlorophenol	Phenol	

Priority Pollutants: Base/Neutral Extractables		
Acenaphthene	Benzidine	1,2,4-Trichlorobenzene
Hexachlorobenzene	Hexachloroethane	Bis (2-Chloroethyl) ether
2-Chloronaphthalene	1,2-Dichlorobenzene	1,3-Dichlorobenzene
1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	2,4-Dinitrotoluene
2,6-Dinitrotoluene	1,2-Diphenylhydrazine	Fluoranthene
4-Chlorophenyl phenyl ether	4-Bromophenyl phenyl ether	Bis (2-chloroisopropyl) ether
Bis (2-Chloroethoxy) methane	Hexachlorobutadiene	Hexachlorocyclopentadiene
Isophorone	Naphthalene	Nitrobenzene
N-Nitrosodimethylamine	N-Nitrosodi-n-propylamine	M-Nitrosodiphenylamine
Bis (2-Ethylhexyl) phthalate	Butyl benzyl phthalate	Di-N-Butyl phthalate
Di-N-Octyl phthalate	Diethyl phthalate	Dimethyl phthalate
Benzo (A) Anthracene	Benzo (A) pyrene	Benzo (B) fluoranthene
Benzo (K) Fluoranthene	Chrysene	Acenaphthylene
Anthracene	1,12-Benzoperylene	Fluorene
Phenanthrene	1,2,5,6-Dibenzanthracene	Indeno (1,2,3-CD) pyrene
Pyrene	TCDD	

Priority Pollutants: Pesticides		
Aldrin	Chlordane	Dieldrin
4,4'-DDT	4,4'-DDE	4,4'-DDD
Alpha endosulfan	Beta endosulfan	Endosulfan sulfate
Endrin	Endrin aldehyde	Heptachlor
Heptachlor expoxide	Alpha BHC	Beta BHC
Gamma BHC	Delta BHC	Toxaphene
PCB 1016	PCB 1221	PCB 1232
PCB 1242	PCB 1248	PCB 1254
PCB 1260		

Priority Pollutants: Volatile Organics		
Acrolein	Acrylonitrile	Benzene
Carbon tetrachloride	Chlorobenzene	1,2-Dichloroethane
1,1,1-Trichloroethane	1,1-Dichloroethane	1,1,2-Trichloroethane
1,1,2,2-Tetrachloroethane	Chloroethane	Chloroform
1,1-Dichloroethylene	1,2-Transdichloroethylene	1,2-Dichloropropane
1,2-Dichloropropylene	Ethylbenzene	Methylene chloride
Methyl chloride	Methyl bromide	Bromoform
Bromodichloromethane	Dibromochloromethane	Tetrachloroethylene
Toluene	Trichloroethylene	Vinyl chloride
2-Chloroethyl vinyl ether		

Priority Pollutants: Metals & Miscellaneous		
Antimony (Sb)	Arsenic (As)	Beryllium (Be)
Cadmium (Cd)	Chromium (Cr)	Copper (Cu)
Lead (Pb)	Mercury (Hg)	Nickel (Ni)
Selenium (Se)	Silver (Ag)	Thallium (Tl)
Zinc (Zn)	Cyanide (CN^-)	Asbestos ($H_2Mg_3Si_2O_9$)

.....Endnote

1. a^ = (DHS note) Unregulated: monitoring required for all community and non-transient, non-community water systems

STANDARD PROVISIONS
APPLICABLE TO WASTE DISCHARGE REQUIREMENTS

1. DUTY TO COMPLY

The discharger must comply with all conditions of these waste discharge requirements. A responsible party has been designated in the Order for this project, and is legally bound to maintain the monitoring program and permit. 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. [CWC Section 13261, 13263, 13265, 13268, 13300, 13301, 13304, 13340, 13350]

2. GENERAL PROHIBITION

Neither the treatment nor the discharge of waste shall create a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code (CWC). [H&SC Section 5411, CWC Section 13263]

3. AVAILABILITY

A copy of these waste discharge requirements shall be maintained at the discharge facility and be available at all times to operating personnel. [CWC Section 13263]

4. CHANGE IN OWNERSHIP

The discharger must notify the Executive Officer, in writing at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage to a new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current discharger and the new discharger. This agreement shall include an acknowledgement that the existing discharger is liable for violations up to the transfer date and that the new discharger is liable from the transfer date on. [CWC Sections 13267 and 13263]

5. CHANGE IN DISCHARGE

In the event of a material change in the character, location, or volume of a discharge, the discharger shall file with this Regional Board a new Report of Waste Discharge. [CWC Section 13260(c)]. A material change includes, but is not limited to, the following:

(a) Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the Waste.

(b) Significant change in disposal method, e.g., change from a land disposal to a direct discharge to water, or change in the method of treatment which would significantly alter the characteristics of the waste.

(c) Significant change in the disposal area, e.g., moving the discharge to another drainage area, to a different water body, or to a disposal area significantly removed from the original area potentially causing different water quality or nuisance problems.

(d) Increase in flow beyond that specified in the waste discharge requirements.

(e) Increase in the area or depth to be used for solid waste disposal beyond that specified in the waste discharge requirements. [CCR Title 23 Section 2210]

6. REVISION

These waste discharge requirements are subject to review and revision by the Regional Board. [CCR Section 13263]

7. TERMINATION

Where the discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information. [CWC Sections 13260 and 13267]

8. VESTED RIGHTS

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, do not protect the discharger from his liability under Federal, State or local laws, nor do they create a vested right for the discharger to continue the waste discharge. [CWC Section 13263(g)]

9. SEVERABILITY

Provisions of these waste discharge requirements are severable. If any provision of these requirements are found invalid, the remainder of the requirements shall not be affected. [CWC Section 921]

10. OPERATION AND MAINTENANCE

The discharger shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with conditions of this Order. 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 or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order. [CWC Section 13263(f)]

11. HAZARDOUS RELEASES

Except for a discharge which is in compliance with these waste discharge requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Article 3.7 (commencing with Section 8574.7) of Chapter 7 of Division 1 of Title 2 of the Government Code, and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of Section 13271 of the Water Code unless the discharger is in violation of a prohibition in the applicable Water Quality Control plan. [CWC Section 1327(a)]

12. PETROLEUM RELEASES

Except for a discharge which is in compliance with these waste discharge requirements, any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Article 3.5 (commencing with Section 8574.1) of Chapter 7 of Division 1 of Title 2 of the Government Code. This provision does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Section 311 of the Clean Water Act or the discharge is in violation of a prohibition in the applicable Water Quality Control Plan. [CWC Section 13272]

13. ENTRY AND INSPECTION

The discharger shall allow the Regional Board, or an 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, or where records must be kept under the conditions of this Order;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order;

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

(d) Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order, or as otherwise authorized by the California Water Code, any substances or parameters at any location. [CWC Section 13267]

14. MONITORING PROGRAM AND DEVICES

The discharger shall furnish, under penalty of perjury, technical monitoring program reports; such reports shall be submitted in accordance with specifications prepared by the Executive Officer, which specifications are subject to periodic revisions as may be warranted. [CWC Section 13267]

All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year, or more frequently, to ensure continued accuracy of the devices. Annually, the discharger shall submit to the Executive Office a written statement, signed by a registered professional engineer, certifying that all flow measurement devices have been calibrated and will reliably achieve the accuracy required.

Unless otherwise permitted by the Regional Board Executive officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. The Regional Board Executive Officer may allow use of an uncertified laboratory under exceptional circumstances, such as when the closest laboratory to the monitoring location is outside the State boundaries and therefore not subject to certification. All analyses shall be required to be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants" [40CFR Part 136] promulgated by the U.S. Environmental Protection Agency. [CCR Title 23, Section 2230]

15. TREATMENT FAILURE

In an enforcement action, it shall not be a defense for the discharger that it would have been necessary to halt or to reduce the permitted activity in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the discharger shall, to the extent necessary to maintain compliance with this Order, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided. This provision applies, for example, when the primary source of power of the treatment facility fails, is reduced, or is lost. [CWC Section 13263(f)]

16. DISCHARGE TO NAVIGABLE WATERS

Any person discharging or proposing to discharge to navigable waters from a point source (except for discharge of dredged or fill material subject to Section 404 fo the Clean Water Act and discharge subject to a general NPDES permit) must file an NPDES permit application with the Regional Board. [CCR Title 2 Section 22357]

17. ENDANGERMENT TO HEALTH AND ENVIRONMENT

The discharger shall report any noncompliance which may endanger health or the environment. Any such information shall be provided verbally to the Executive Officer 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 times, 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 Executive officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The following occurrence(s) must be reported to the Executive Office within 24 hours:

(a) Any bypass from any portion of the treatment facility.

(b) Any discharge of treated or untreated wastewater resulting from sewer line breaks, obstruction, surcharge or any other circumstances.

(c) Any treatment plan upset which causes the effluent limitation of this Order to be exceeded. [CWC Sections 13263 and 13267]

18. MAINTENANCE OF RECORDS

The discharger shall retain records of all monitoring information including all calibration and maintenance records, all original strip chart recordings for continuous monitoring instrumentation, copies off all reports required by this Order, and record of all data used

to complete the application for this Order. Records shall be maintained for a minimum of three years from the date of the sample, measurement, report, or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.

Records of monitoring information shall include:

(a) The date, exact place, and time of sampling or measurement;

(b) The individual(s) who performed the sampling or measurement;

(c) The date(s) analyses were performed;

(d) The individual(s) who performed the analyses;

(e) The analytical techniques or method used; and

(f) The results of such analyses.

19. (a) All application reports or information to be submitted to the Executive Office shall be signed and certified as follows:

(1) For a corporation – by a principal executive officer or at least the level of vice president.

(2) For a partnership or sole proprietorship – by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency – by either a principal executive officer or ranking elected official.

(b) A duly authorized representative of a person designated in paragraph (a) of this provision may sign documents if:

(1) The authorization is made in writing by a person described in paragraph (a) of this provision.

(2) The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and

(3) The written authorization is submitted to the Executive Officer.

Any person signing a document under this Section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments 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 fine and imprisonment. [CWC Sections 13263, 13267, and 13268]"

20. OPERATOR CERTIFICATION

Supervisors and operators of municipal wastewater treatment plants and privately owned facilities regulated by the PUC, used in the treatment or reclamation of sewage and industrial waste shall possess a certificate of appropriate grade in accordance with Title 23, California Code of Regulations Section 3680. State Boards may accept experience in lieu of qualification training. In lieu of a properly certified wastewater treatment plant operator, the State Board may approve use of a water treatment plan operator of appropriate grade certified by the State Department of Health Services where reclamation is involved.

Each plan shall be operated and maintained in accordance with the operation and maintenance manual prepared by the municipality through the Clean Water Grant Program [CWC Title 23, Section 2233(d)]

ADDITIONAL PROVISIONS APPLICABLE TO PUBLICLY OWNED TREATEMENT WORKS' ADEQUATE CAPACITY

21. Whenever a publicly owned wastewater treatment plant will reach capacity within four years the discharger shall notify the Regional Board. A copy of such notification shall be sent to appropriate local elected officials, local permitting agencies and the press. The discharger must demonstrate that adequate steps are being taken to address the capacity problem. The discharger shall submit a technical report to the Regional Board showing flow volumes will be prevented from exceeding capacity, or how capacity will be increased, within 120 days after providing notification to the Regional Board, or within 120 days after receipt of notification from the Regional Board, of a finding that the treatment plant will reach capacity within four years. The time for filing the required technical report may be extended by the Regional Board. An extension of 30 days may be granted by the Executive Officer, and longer extensions may be granted by the Regional Board itself. [CCR Title 23, Section 2232]

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. CI-9483
For
CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

(Water Treatment and Irrigation Storage System)

Enrollment under Regional Board Order No. 93-010 (Series No. 038)
(FILE NO. 09-001)

I. REPORTING REQUIREMENTS

A. California State University, Northridge (hereinafter Discharger) shall implement this monitoring program on the effective date of this enrollment, March 3, 2009, under Regional Board Order No. 93-010. The first monitoring report under this program, for April-June 2009, shall be received at the Regional Board by July15, 2009.

Monitoring reports shall be received by the dates in the following schedule:

Reporting Period	Report Due
January – March	April 15
April – June	July 15
July – September	October 15
October – December	January 15

B. If there is no discharge during any reporting period, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.

C. By January 30 of each year, the Discharger shall submit an annual summary report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Discharger shall explain the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the waste discharge requirements (WDRs).

D. Laboratory analysis – All chemical, bacteriological and toxicity analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP). The laboratory must meet the United States Environmental Protection Agency (USEPA) Quality Assurance/Quality Control (QA/QC) criteria. Pollutants shall be analyzed using the methods described in 40 CFR Part 136; or where no methods are specified for a given pollutant, methods approved by the Regional Board shall be utilized.

E. The method limits (MLs) employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the Discharger can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Regional Board Executive Officer (Executive Officer). The discharger shall submit a list of the analytical methods employed for each test and the associated laboratory Quality Assurance/Quality Control (QA/QC) procedures upon the request of the Regional Board.

F. Each monitoring report must affirm in writing that "All analyses were conducted at a laboratory certified for such analyses by the California Department of Health Services and in accordance with current United States Environmental Protection Agency (USEPA) guideline procedures or as specified in this Monitoring Program." Proper chain of custody procedures must be followed and a copy of the chain of custody shall be submitted with the report.

G. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with WDRs. This section shall be located at the front of the report and shall clearly list all non-compliance with WDRs, as well as all excursions of effluent limitations.

H. The Discharger shall maintain all sampling and analytical results, including strip charts; date; exact place, and time of sampling; dates analyses were performed; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.

I. In reporting the monitoring data, the Discharger shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with the requirements and, where applicable, shall include results of receiving water observations.

J. Any mitigation/remedial activity including any pre-discharge treatment conducted at the site must be reported in the quarterly monitoring report.

II. WATER QUALITY MONITORING REQUIREMENTS

A. Maintenance reporting: The Discharger shall submit a quarterly operation and maintenance report of Irrigation Storage System. The information to be contained in the report shall include, at a minimum, the following:

1. The name and address of the person or company responsible for the operation and maintenance of the facility;

2. Type of maintenance (preventive or corrective action performed);

3. Frequency of maintenance, if preventive;

4. Estimated irrigation area and quantity of water use for irrigation, if any irrigation;

5. Verification that there is no runoff from the irrigation storage area to surface waters; and

6. Maintenance records for the lined pond and/or wastewater disposal system.

B. A sampling station shall be located where representative samples of the effluent can be obtained. The following shall constitute the effluent monitoring program:

Constituent	Unit	Type of Sample	Minimum Frequency of Analysis
Total flow	gal/day	N/A	Weekly
Temperature	°F		Weekly
pH	pH Units	grab	Monthly
Total dissolved solids	mg/L	grab	Quarterly
Sulfate	mg/L	grab	Quarterly
Chloride	mg/l	grab	Quarterly
Boron	mg/L	grab	Quarterly

III. MONITORING FREQUENCY

Monitoring frequencies may be adjusted to a less frequent basis and/or parameters dropped by the Executive Officer if the Discharger makes a request which is supported by statistical trends of monitoring data.

IV. CERTIFICATION STATEMENT

Each report shall contain the following completed declaration:

"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

Executed on the _____day of _____ at _____

_____(Signature)

_____(Title)

These records and reports are public documents and shall be made available for inspection during normal business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region.

Ordered by: _____

Tracy J. Egoscue
Executive Officer

Date: March 3, 2009