California Regional Water Quality Control Board

Los Angeles Region

Recipient of the 2001 Environmental Leadership Award from Keep California Beautiful

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Linda S. Adams
Cal/EPA Secretary

Arnold Schwarzenegger
Governor

December 4, 2008

Mr. Jeff Pratt
Ventura County Public Works Agency
Transportation Department
800 South Victoria Avenue
Ventura, CA 93009

Dear Mr. Pratt:

GENERAL WASTE DISCHARGE REQUIREMENTS (ORDER NO. 93-010) FOR SPECIFIED DISCHARGES TO GROUNDWATER – VENTURA COUNTY PUBLIC WORKS AGENCY TRANSPORTATION DEPARTMENT, VENTURA, CALIFORNIA (CI-9472, File No. 08-159)

We have completed our review of your application, which includes the November 5, 2008, Report of Waste Discharge (ROWD) submitted by the Ventura County Public Work Agency (hereafter the Discharger) for discharge of groundwater produced during the reconstruction and reinforcement of the pier wall of South Mountain Road Bridge (also known as the 12th Street Bridge).

The project will consists of the stabilization of the foundation of Street Bridge located over the Santa Clara River near Santa Paula. The project is located south of the City of Santa Paula on South Mountain Road, approximately 0.1 mile southeast of the Highway 150 and Highway 126 junction. The project's latitude is 34° 20' 56.156" North; its longitude is 119° 3' 4.739" West (See Site Map).

The project will involve retrofitting of ten of eleven pier wall foundations by installing concrete outriggers adjacent to the existing footings and constructing piles and piles caps below existing grade within the dry bed of the river. Reinforcing bar and concrete pile cap will connect the new concrete and the original footing. In addition to the concrete sleeve, four-foot diameter Cast-in-Drilled-Hole concrete piles that are connected to the new concrete footing will be drilled and cast approximately 40 feet into the ground for additional support. Caltrans has rated the situation of the bridge as "Scour Critical", requiring remediation. Further scouring could jeopardize the foundations of the 11 pier walls of the bridge and the bridge could be seriously damaged.

A site inspection was conducted by Regional Board staff on November 21, 2008 to confirm the level of repairs that are necessary for the foundation of the bridge and the area where the groundwater will be discharged.

The dewatering is anticipated to occur during excavation for pile caps. Prior to placement of concrete slurry beneath the bridge stabilizer, groundwater well points will be installed directly downstream of the immediate work areas. Groundwater level will be drawn down a minimum

of five feet below the affected area. The lowered groundwater levels will be maintained throughout the course of work, including concrete slurry placement, to prevent contact with all water. Groundwater will be encountered at a depth of approximately three feet below the stream bed.

The Discharger will temporarily divert stream flows to the opposite side of the stream to create a dry work area in the stream bed (See Exhibit B). A gravel filter will be placed at the well points and the pump intake will be covered with a filter bag. Dewatering will occur before and during the excavation. Groundwater will be discharged into one or two (if needed) infiltration ponds which will be constructed at the dry work areas. One pond will be used to discharge the groundwater from the reconstruction and reinforcement of a half of the bridge stabilizer. Then, the stream will be diverted again to the repaired other side of the Santa Clara River, and, if needed, a second pond will be constructed at the dry work area and used for discharge of groundwater from the reconstruction of the second half of bridge stabilizer. A splash pad and/or a de-silting bag will be placed at the groundwater discharge point to the percolation pond. The ponds will has dimensions of 80 feet (ft) X 80 ft X 3.5 ft. The 3.5 feet in depth will be achieved by excavating 18 inches deep and constructing a two foot high berm. The maximum daily discharge is estimated to be 40,000 gallons per day. The work of reconstruction will be completed within a four month period.

The Discharger obtained a 401 Certification (File No. 05-081) from this Regional Board on October 14, 2005 for the bridge improvement.

The Water Quality Control Plan, Los Angeles Region, has established groundwater quality objectives for East of Peck Road Sub-Basin of Santa Paula Basin. The water quality objectives are 1,200 milligrams per liter (mg/L) for total dissolved solids (TDS), 600 mg/L for sulfate, 150 mg/L for chloride, and 1.0 mg/L for boron. Two groundwater samples collected on October 20, 2008, indicated that the TDS ranged from 800 to 870 mg/L, sulfate from 330 mg/L to 370 mg/L, chloride from 60 to 61 mg/L, nitrate from 0.53 to 0.83 mg/L, and boron 0.46 mg/L (two identical results).

Therefore, based on the information provided and information gathered during the site inspection on November 21, 2008, Regional Board Executive Officer has 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.

Enclosed are your Waste Discharge Requirements consisting of Regional Board Order No. 93-010, and Monitoring and Reporting program No. CI-9472. The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of 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-9472", which will assure that the reports are directed to the appropriate file and staff. Do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

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 questions regarding this matter, please contact Project Manager, Mr. Orlando H. Gonzalez at (213) 620-2267,or Unit Chief, Dr. Rebecca Chou at (213) 620-6156.

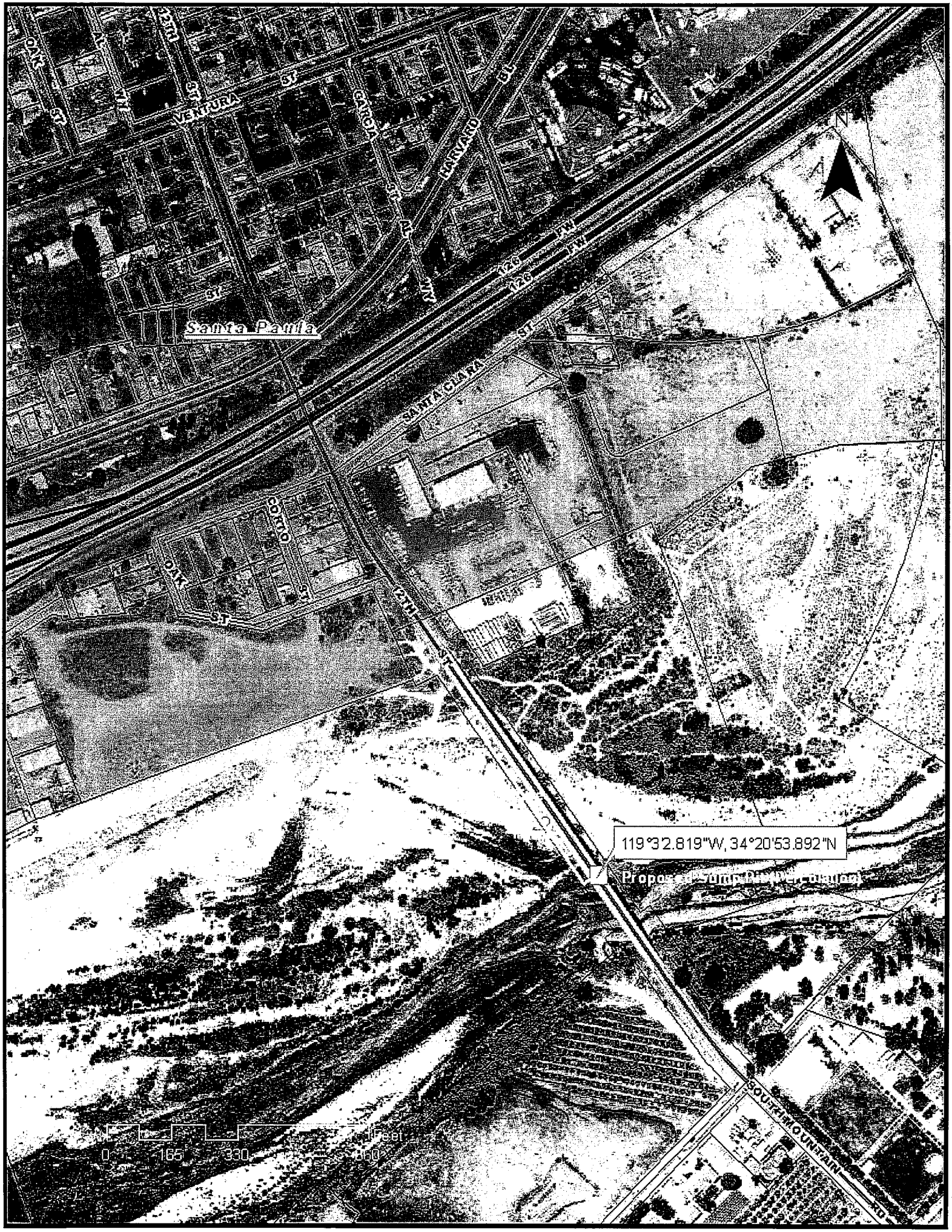
Sincerely,

Tracy J. Egoscue
Executive Officer

Enclosures:

1. General WDR Board Order No. 93-010
2. Monitoring and Reporting Program No. CI-9472
3. Priority Pollutants list

cc: Mr. Kurt Souza, Cal. DHS, Region 5 - So Cal. Branch, Drinking Water Field Operation
Mr. Jeffrey L. Stone, Cal. DPH, Division of Drinking Water and Environmental Management, Recycled Water Unit
Mr. James Evans, Ventura County Environmental Health Division, Liquid Waste
Ms. Melinda Talent, Ventura County Environmental Health Division, Land Use Unit
Mr. Keith Duval, Ventura County Air Pollution Control District
Dr. Jeewoong Kim, Design Engineer, Transportation Department, Ventura County Public Works Agency


Santa Paula
VENTURA ST
HARVARD BL
SANTA CLARA ST
OAK ST
12TH ST
126 FWY
119°3'2.819"W, 34°20'53.892"N
SOUTH MOUNTAIN RD
0
165
330
660
Feet
N

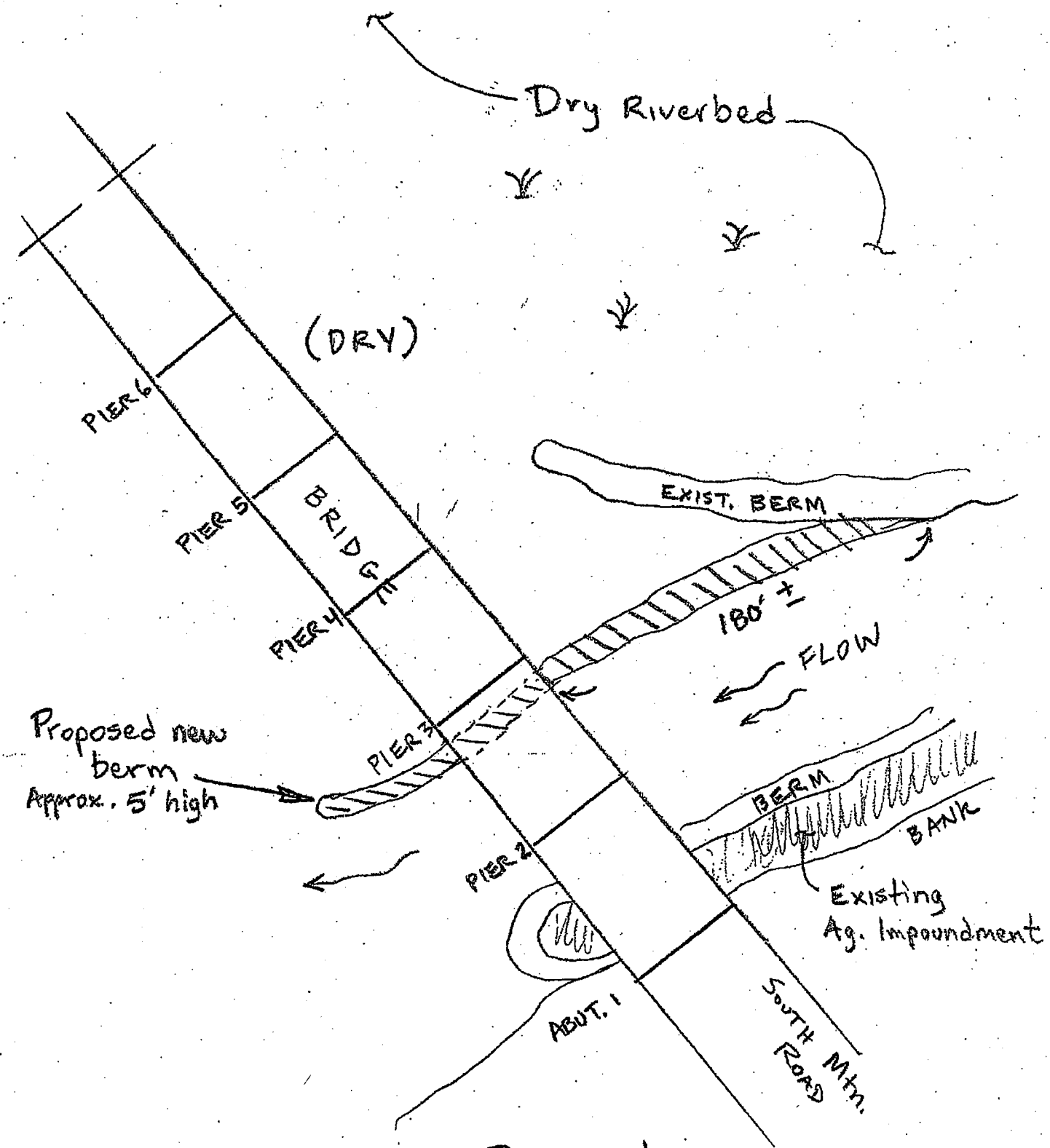


EXHIBIT B - Diversion of Flow

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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

Attachment A, Table 1

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

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	1,200	600	150	1.0
Fox Cyn Aquifer	1,200	600	150	1.0
Grimes Cyn Aquifer	None Specified			
Upper Aquifer[j]				
Calleguas-Conejo HA	900	350	150	1.0
West Las Posas HSA				
East Las Posas HSA[k]	700	300	100	0.5
NW of Grimes Cyn Rd, L.A. Avenue and Somis Rd	2,500	1,200	400	3.0
East of Grimes Cyn Rd and Hitch Blvd	1,500	700	250	1.0
South of L.A. Ave between Somis Rd and Hitch Blvd	250	30	30	0.2
Isolated basin near Grimes Cyn Rd and Broadway Rd	900	300	150	1.0
Arroyo Santa Rosa HSA	800	250	150	1.0
Conejo Valley HSA	700	250	100	0.5
Tierra Rejada Valley HSA	900	350	50	1.0
Gillibrand HSA				
Simi Valley HSA	1,200	600	150	1.0
Deep aquifers	None Specified			
Shallow aquifer[l]				
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. Water quality in shallow aquifers shall be maintained at existing levels 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 ea 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.

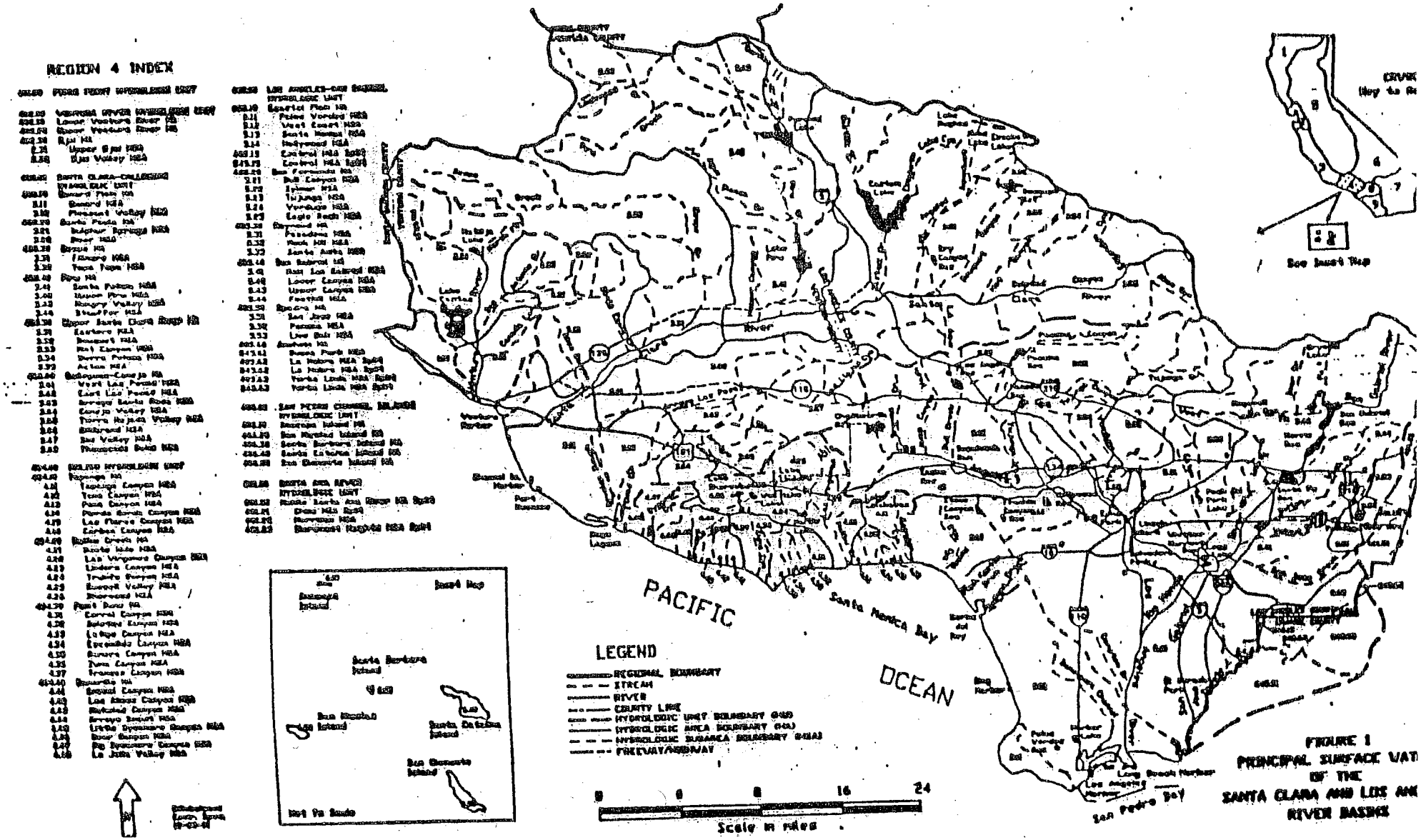

FIGURE 1
PRINCIPAL SURFACE WAT
OF THE
SANTA CLARA AND LOS AN
RIVER BASINS

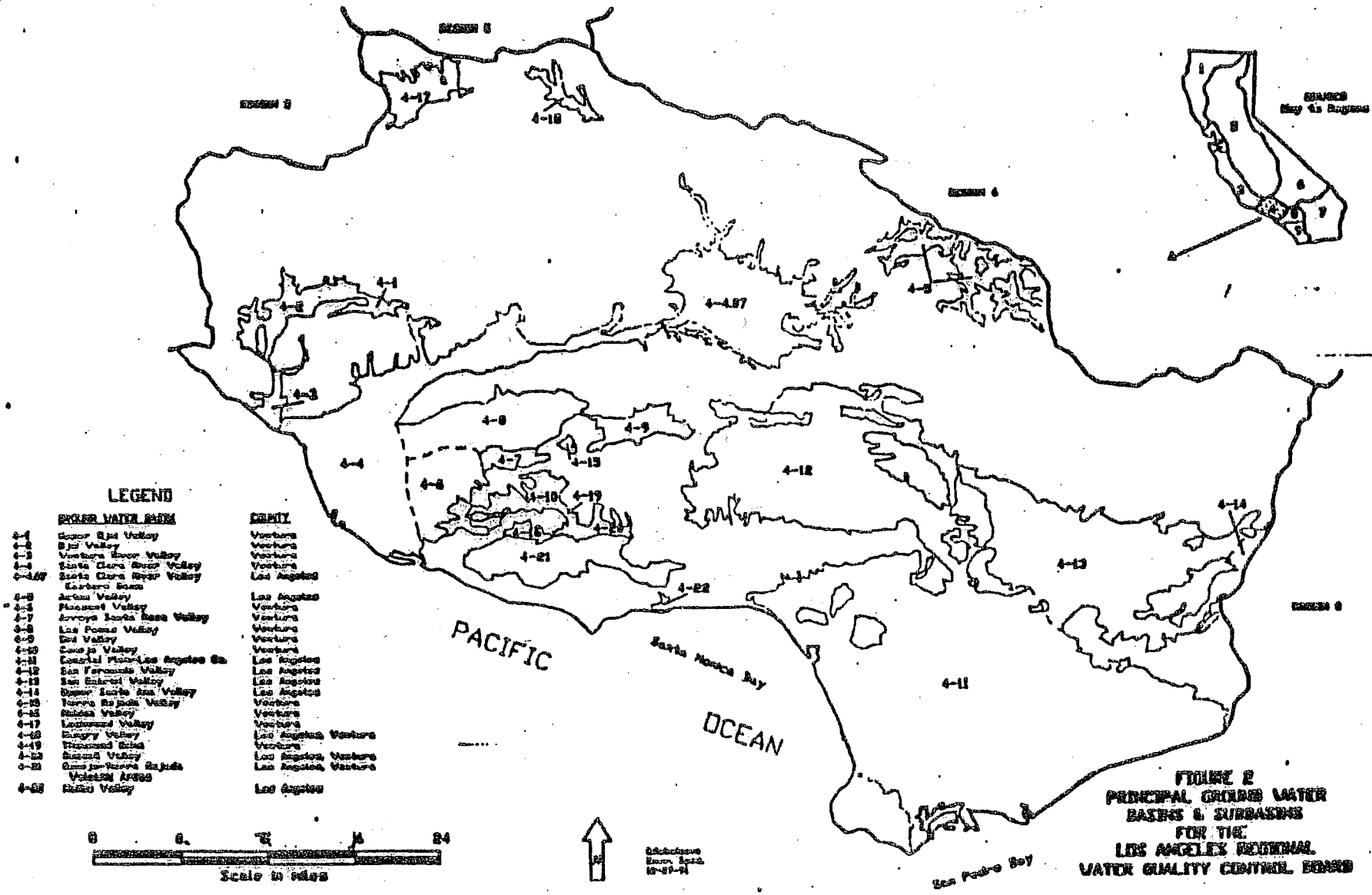

FIGURE 2
PRINCIPAL GROUND WATER
BASINS & SUBBASINS
FOR THE
LOS ANGELES REGIONAL
WATER QUALITY CONTROL BOARD

Attachment "B"

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

Priority Pollutants

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 ($H_4Mg_3Si_4O_{12}$)

.....Endnote

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

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

AMENDED MONITORING AND REPORTING PROGRAM NO. CI-9472
for
VENTURA COUNTY WATERSHED PROTECTION DISTRICT
(County Bridge 448)

Enrollment under Regional Board Order No. 93-010 (Series No. 037)
(FILE NO. 08-159)

I. REPORTING REQUIREMENTS

A. The Discharger shall implement this monitoring program from the effective date of this enrollment (December 4, 2008) under Regional Board order No. 93-010. The first monitoring report under this monitoring program is due by January 15, 2009. Monitoring reports shall be submitted monthly and must be received by the Regional Board by the fifteenth day of the second month following the sampling period. If there is no discharge, the report shall so state. Monitoring reports must be addressed to the Regional Board, Attention: Information Technology Unit.

B. 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 discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with waste discharge requirements.

C. Laboratory analysis – all chemical analysis shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP). A copy of the laboratory certification shall be provided each time that a new and/or renewal certification is obtained from ELAP.

D. 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 Executive Officer. At least once a year, 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.

E. Water/wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. QA/QC samples must be run on the same dates as the Discharger samples are analyzed. The Discharger shall make available for inspection and/or submit the QA/QC documentation upon request by Regional Board staff.

Proper chain of custody procedures must be followed and a copy of the chain of custody documentation shall be submitted with the report.

December 4, 2008

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."

G. For every item where the requirements are not met, the Discharger shall submit a statement of the cause(s), and actions undertaken or proposed which will bring the discharge into full compliance with waste discharge requirements at the earliest possible time, including a timetable for implementation of those actions.

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 monthly monitoring report.

II. WATER QUALITY MONITORING REQUIREMENTS

A. Maintenance Reporting: The Discharger shall submit a monthly operation and maintenance report for the facility including the disposal system of the wastewater. 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 amount of water used for dust control;
5. Description of any change in the dewatering approach, if changed;
6. Verification that there is no runoff from the pumping and discharge systems to surface waters; and
7. Maintenance records for the pumping, discharge, and wastewater disposal system.

B. Effluent Monitoring: Sampling stations shall be located where representative samples of that discharge ground water from dewatering area can be obtained. The following shall constitute the effluent monitoring program:

Constituent [1]	Unit[2]	Type of[3] Sample	Minimum[6] Frequency of Analysis
Total flow	gal/day	N/A	Daily
pH	pH Units	grab	monthly
Total dissolved solids	mg/L	grab	monthly
Organic Nitrogen[4]	mg/L	grab	monthly
Nitrate-nitrogen[4]	mg/L	grab	monthly
Nitrite-nitrogen[4]	mg/L	grab	monthly
Ammonia-itrogen[4]	mg/L	grab	monthly
Oil and grease	mg/L	grab	monthly
Total Nitrogen[4]	mg/L	grab	monthly
Sulfate	mg/L	grab	monthly
Chloride	mg/L	grab	monthly
Boron	mg/L	grab	monthly
BOD5 20°C	mg/L	grab	monthly
Suspended solids	mg/L	grab	monthly
Turbidity	NTU	grab	monthly
Total and Fecal coliform	MPN/100mL	grab	monthly
Enterococcus	MPN/100mL	grab	monthly
Phosphate	mg/l	grab	monthly
Priority pollutants[5]	mg/L	grab	One time[7]

[1] If any constituent exceeds the baseline water quality data, then the frequency of analyses shall increase to weekly until at least three test results have been obtained and there is no more exceeding constituent, after which the frequency of analyses shall revert to monthly.

[2] MPN/100mL: Most Probable Number per milliliter; mg/L: milligram per liter

[3] Samples shall be obtained at the infiltration pond.

[4] Nitrate + nitrite + ammonia + organic nitrogen as nitrogen

[5] Priority Pollutants are listed in Attachment A. Discharger is not required to test for cyanide and asbestos;

[6] Three effluent samples shall be collected and analyzed during the dewatering operation. One sample shall be collected during the first day of dewatering, the second sample 30 days after the first sample and the last sample shall be collected by the last day of the dewatering activities.

[7] One time sample on the first day of discharge.

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: _____ Date: December 4, 2008
Tracy J. Egoscue
Executive Officer

ATTACHMENT A

PRIORITY POLLUTANTS

Metals

Antimony
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Zinc

Miscellaneous

Cyanide
Asbestos (only if specifically required)

Pesticides & PCBs

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

Base/Neutral Extractibles

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
N-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

Acid Extractibles

2,4,6-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

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-trans-dichloroethylene
1,2-dichloropropane
1,3-dichloropropylene
Ethylbenzene
Methylene chloride
Methyl chloride
Methyl bromide
Bromoform
Dichlorobromomethane
Chlorodibromomethane
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl chloride
2-chloroethyl vinyl ether
Xylene

vbc 6/6/00