



California Regional Water Quality Control Board Los Angeles Region



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September 4, 2003

Mr. Jagdish Patel
State of California
Department of Transportation
Sylmar Construction Field Office
13171 Telfair Ave.
Sylmar, CA 91342

CERTIFIED MAIL
RETURN RECEIP REQUESTED
CLAIM NO. 7001 2510 0003 6055 4896

Dear Mr. Patel:

GENERAL WASTE DISCHARGE PERMIT COVERAGE (ORDER NO. 93-010) FOR SPECIFIED DISCHARGES TO GROUNDWATER – 5/126 INTERCHANGE AT SANTA CLARA RIVER BRIDGE, SANTA CLARITA, CALIFORNIA (CI-8636, File No. 02-039)

We have completed our review of your Waste Discharge Requirements application submitted by MCM Construction, Inc. on behalf of the State of California, Department of Transportation District 07 (hereafter the Discharger) for discharge of groundwater produced during the replacement of the bridge located at the interception of Interstate 5 and the Santa Clara River (Site).

The bridge replacement project involves replacing the existing two bridges with a single larger bridge structure. The proposed bridge will be a prestressed box girder superstructure. The Discharger will be installing 35 columns (piles) using steel casing. The piles will be installed 25 feet apart to depths of 120 feet. Groundwater is expected to be present at depths ranging from 4.5 to 28.5 (Well A1 and Well B1, respectively) feet below ground surface (bgs). Well B1 is located east of Freeway 5 and north of the Santa Clara River at the toe of an abutment. Well A1 is located west of Freeway 5 and south of the Santa Clara River near the toe of the south abutment (Figure 1).

The Discharger does not expect to conduct any de-watering operations during the pile foundation construction activities. However, if de-watering is necessary, the Discharger proposes to dispose collected groundwater to the adjacent Cal-Trans right of way areas and to the Magic Mountain Parkway embankments for dust control. The Discharger also proposes to discharge groundwater to a sedimentation basin that will be located near the northeast area of the Magic Mountain on-ramp for the northbound Route 5 (Figure 2). The groundwater flow rates will dictate how the Discharger will initially store and handle the generated flow. If the de-watering flows are less than 8,000 gallons per day (gpd), the Discharger will pump groundwater to a water storage tank prior to discharge and then spray the stored water to the adjacent Cal-Trans right of way areas and to the Magic Mountain Parkway embankments. If the de-watering flows exceed 8,000 gpd, the Discharger will pump the groundwater to the proposed sedimentation basin. The sedimentation basin will be 100 feet by 100 feet by 4 feet with approximately 300,000 gallons disposal capacity (Latitude: 18° 35', Longitude: 34° 25' 30").

California Environmental Protection Agency

*** The energy challenge facing California is real. Every California needs to take immediate action to reduce energy consumption***
For a list of simple ways to reduce demand and cut your energy costs, see the tips at: <http://www.swrdb.ca.gov/news/echalleng.html>



Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

The Site is located in the South Fork Sub-unit of the Eastern Santa Clara Groundwater Basins. The Discharger indicated that the groundwater quality in this area is poor due to high concentrations of minerals. General Waste Discharge Requirements of Order 93-010 establish limits for these constituents for this area. The water quality objectives are 700 milligrams/liter (mg/L) for TDS, 200 mg/L for sulfate, 100 mg/L for chloride, and 0.5 mg/L for boron.

Groundwater samples collected from the two wells (Well A1 and Well B1) located near the Site indicate the following results: 1,400 and 1,100 mg/L for TDS, 720 and 690 mg/L for sulfate, 64 and 30 mg/L for chloride, and 0.479 and 0.413 mg/L for boron respectively. Based on these results, TDS and sulfate exceed the water quality objectives for the same area, which is the area of the location of the project.

Waste Discharge Requirements (E.6.) of Board Order No 93-010 states: "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 Water in California", with each discharge, on a site – specific basis". The proposal is for groundwater to be utilized in the area from which it was extracted from the same aquifer. It will not be a threat to water quality nor will it threaten beneficial uses of the local groundwater. Subsequently, the Executive Officer has determined that the objectives for TDS and sulfates per Attachments "A" and "B" of Order No. 93-010 are not applicable to this proposed discharge.

Regional Board staff have reviewed the information provided and determined that the proposed discharge qualifies for enrollment under 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, Monitoring and Reporting Program No. CI-8636 and Standard Provisions Applicable to Waste Discharge Requirements. 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-8636", which will assure that the reports are directed to the appropriate file and staff. Also, please do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

In order to avoid future annual fees, please notify this Regional Board when the project has been completed and the permit is no longer needed.

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.

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Mr. Jagdish Patel
State of California
Department of Transportation District 07

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September 4, 2003
CI-8636

If you have any questions regarding this matter, please contact Orlando H. Gonzalez at (213) 620-2267.

Sincerely,

Dennis A Dickerson
Executive Officer

Enclosures

Board Order No. 93-010
Monitoring and Reporting Program No. CI-8636
Standard Provisions Applicable to Waste Discharge Requirements

cc: Mr. Robert Sams, Office of Chief Counsel, State Water Resources Control Board
Mr. Michael Lauffer, Office of Chief Counsel, State Water Resources Control Board
Mr. Tim Smith, County of Los Angeles Department of Public works, Environmental
Program Division
Mr. Scott Dendall, MCM Construction, Inc.

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