



Dr. Alan Lloyd  
Agency Secretary

# California Regional Water Quality Control Board

## Los Angeles Region

Recipient of the 2001 *Environmental Leadership Award from Keep California Beautiful*



Arnold Schwarzenegger  
Governor

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July 19, 2005

Mr. Steve Granade, Environmental Engineer  
Naval Base Ventura County  
Environmental Division, Code N45V  
311 Main Road, Suite #1  
Point Mugu, CA 93042-5000

**GENERAL WASTE DISCHARGE REQUIREMENTS (ORDER NO. R4-2005-0030, SERIES NO. 021, MRP NO. CI-8923), OZONE INJECTION – PACIFIC AND ISLIP ROADS, NAVAL BASE VENTURA COUNTY, PORT HUENEME, CALIFORNIA (SLIC NO, 282, FILE NO. 98-017)**

Dear Mr. Granade:

Los Angeles Regional Water Quality Control Board (Regional Board) staff have completed our review of your application for coverage under General Waste Discharge Requirements (WDR) to inject air with up to 6% ozone by volume into the shallow perched aquifer as part of an evaluation of tests to determine the most efficient method of delivering oxygen to groundwater to enhance in situ remediation of methyl tertiary butyl ether (MTBE). MTBE is the major groundwater contaminant at the test site. We have determined that the proposed discharge meets the conditions specified in Regional Board Order No. R4-2005-0030, “*Revised General Waste Discharge Requirements for Groundwater Remediation at Petroleum Hydrocarbon Fuel and/or Volatile Organic Compound Impacted Sites,*” adopted by this Regional Board on April 19, 2005. Refer to the attached Fact Sheet.

You may begin to inject a maximum of 7 pounds of ozone per day via a Kerfoot Technologies, C-Sparge, 30 inch long, diffuser set at 17.5 feet to 20 feet below grade. The technology test is being conducted within the Department of Defense, National Environmental Test Site, which is used by numerous government, business, and education groups to evaluate technologies for the treatment of MTBE in soil and groundwater.

Enclosed are your Waste Discharge Requirements, consisting of Regional Board Order No. R4-2005-0030 (Series 021) and Monitoring and Reporting Program No. CI-8923. Please note that the discharge limits in Attachment A [DWR Basin No. 4-4 (Oxnard Plain – Unconfined and Perched Aquifers)] of this Order No. R4-2005-0030 are applicable to your discharge.

The “Monitoring and Reporting Program” requires you to implement the monitoring program on the effective date of this enrollment (July 18, 2005) under Regional Board Order No. R4-2005-0030. All monitoring reports shall be sent to the Regional Board, ATTN: Information Technology Unit.

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Mr. Steve Granade  
Naval Base Ventura County

- 2 -

July 19, 2005

When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to 'Compliance File No. CI-8923', 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.

**If you have any questions, please contact Mr. Peter Raftery at (213) 576-6724.**

Sincerely,

Jonathan Bishop  
Executive Officer

Enclosures:

- 1) Fact Sheet
- 2) General Waste Discharge Requirements, Order No. R4-2005-0030
- 3) Monitoring and Reporting Program, CI No. 8923

cc: Peter Chen, DTSC, Cypress  
Christine Bucklin, DTSC, Glendale  
Ernie Lorie, Naval Base Ventura County, Port Hueneme  
Paul Dahlen, Arizona State University, Flagstaff

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