



California Regional Water Quality Control Board

Los Angeles Region



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

Linda S. Adams
Agency Secretary

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Arnold Schwarzenegger
Governor

July 28, 2006

Mr. Sonny Sing
United Oil Company, Inc.
17331 South Main Street
Gardena, CA 90248

GENERAL WASTE DISCHARGE REQUIREMENTS FOR GROUNDWATER REINJECTION AT PETROLEUM HYDROCARBON FUEL AND/OR VOLATILE ORGANIC COMPOUND IMPACTED SITES

UNITED OIL SERVICE STATION #55

**2503 WEST PICO BOULEVARD, LOS ANGELES (UST ID # 900060061) (USTCF #815)
(CI NO. 9139) (R4-2005-0030; SERIES NO. 052)**

Dear Mr. Sing:

We have received your application for coverage under General Waste Discharge Requirements to inject hydrogen peroxide to enhance chemical oxidation and aerobic degradation of dissolved phase petroleum hydrocarbons and fuel oxygenates in the shallow groundwater.

United Oil Company, Inc., (hereinafter Discharger) operates a gasoline service station #55 at 2503 West Pico, Los Angeles, California (Site) (Figure 1) (Latitude: 34° 2' 51", Longitude: 118° 17' 30"). The Site consisted of three 10,000-gallon and one 12,000-gallon underground storage tanks (USTs). In 1989, an initial site assessment was conducted. Soil samples were collected and analyzed. The highest concentrations of petroleum hydrocarbons as gasoline (TPH_G) of 21,000 mg/kg and benzene of 180 mg/kg were detected. Subsequent site investigations indicated that the underlying soil and groundwater had been contaminated with fuel hydrocarbons. A Work Plan for Oxidation Injection (Work Plan) dated June 6, 2005, prepared by Frey Environmental, Inc. (Frey) was approved by the Regional Board on February 24, 2006.

Frey proposed to inject hydrogen peroxide into four air sparge wells, ASW5, ASW6, ASW10, and ASW11 (Figure 2). An air compressor will be used to inject air into the air sparge wells. Once the water in the well casing has been expelled, an initial mass of 10 pounds of iron sulfate dissolved in 20 gallons of water will be pumped into the well casing. After completion of iron sulfate injection, 50 gallons of 7.5 % hydrogen peroxide solution will be injected.

We have reviewed the information provided and have determined that the proposed injection 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 May 5, 2005.

Enclosed are Waste Discharge Requirements consisting of Regional Board Order No. R4-2005-0030, and Monitoring and Reporting Program No. CI-9139 and Standard Provisions. The

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Mr. Sonny Sing
United Oil Company, Inc.

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“Monitoring and Reporting Program” requires you to implement the monitoring program on the effective date of this enrollment (July 28, 2006) under Regional Board Order No. R4-2005-0030. All monitoring reports should be sent to the Regional Board, ATTN: Information Technology Unit.

When submitting monitoring or technical reports to the Regional Board per these requirements, please include a reference to “Compliance File No. CI-9139,” 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.

We are sending a copy of Order No. R4-2005-0030 only to the applicant. A copy of the Order will be furnished to anyone who requests it.

If you have any questions concerning this matter, please call Mr. Rodney Nelson at (213) 620-6119.

Sincerely,

Jonathan S. Bishop
Executive Officer

Enclosures: 1. Board Order No. R4-2005-0030
2. Monitoring and Reporting Program No. CI-9139

Ms. Yvonne Shanks, State Water Resources Control Board, Underground Storage Tank Cleanup Fund
Capt. Frank Comfort, Los Angeles City Fire Department, Underground Tanks
Ms. Valerie Toney, Los Angeles City Fire Department, Underground Tanks
Mr. Evan Privett, Frey Environmental, Inc.

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