



California Regional Water Quality Control Board

Los Angeles Region



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

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Agency Secretary

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Arnold Schwarzenegger
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November 2, 2006

Mr. Sandy Sigal
Ventu Thousand Oaks, LLC
5850 Canoga Avenue, Suite 650
Woodland Hills, CA 91367

GENERAL WASTE DISCHARGE REQUIREMENTS FOR OZONE AND HYDROGEN PEROXIDE SOLUTION INJECTION AT PETROLEUM HYDROCARBON FUEL AND/OR VOLATILE ORGANIC COMPOUND IMPACTED SITES – FORMER HOME DEPOT, 500 VENTU PARK ROAD, THOUSAND OAKS, (FILE NO. C – 87134A, CI-9193, ORDER NO. R4-2005-0030, SERIES NUMBER NO. 061)

Dear Mr. Sigal:

We have completed our review of your application for coverage under the General Waste Discharge Requirements for the injection of hydrogen peroxide solution at the site referenced above in Thousand Oaks, California.

Ventu Thousand Oaks LLC. (hereinafter Discharger) is conducting the soil and groundwater cleanup activities at a facility commonly known as former Home Depot site (Site) located at 500 North Ventu Park Road, Thousand Oaks, California. Ventu Thousand Oaks LLC. owns the property. The Site formerly contained an automotive station and is currently a parking lot. Site investigations indicate that soil and groundwater have been contaminated with petroleum hydrocarbons. The maximum concentrations of total petroleum hydrocarbon as gasoline (TPHg) and benzene were detected in soil at 1,390 mg/kg and 2.4 mg/kg, respectively. The maximum concentrations of TPHg and benzene were recently detected in groundwater at 93,000 µg/L and 7,220 µg/L, respectively.

The site is located at the eastern edge of the Conejo Ground Water Basin. The Conejo Ground Water Basin comprises a relatively thin veneer of alluvium underlain by the upper weathered horizon of deeper andesitic basalts of the Miocene Conejo Volcanics. Groundwater in the Conejo Basin reportedly flows eastward across most of the basin; however a more southerly component is generally observed near the down-gradient, eastern end of the Basin. Groundwater conditions in the Conejo Basin generally are unconfined, although perched and semi-perched zones have been observed in some portions of the Basin. Subsurface sediments underlying the property are comprised of relatively fine-grained silts, clayey silts, and clay, with interbeds of silty and clayey sand and gravel. Based upon groundwater monitoring results for the First Quarter 2006, the depth to groundwater ranges from approximately 26 ft to 34 ft bgs. The groundwater flow direction was measured to be towards the southeast. The closest production well (01N19W06Q01S) is located 1,524 ft from the Site.

On September 6, 2006, Waterstone submitted a WDR Permit Application on behalf of the Discharger to conduct cleanup of petroleum hydrocarbons in groundwater at the subject site. Your consultant,

California Environmental Protection Agency



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Mr. Sandy Sigal
Ventu Thousand Oaks, LLC

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Waterstone Environmental, Inc., proposes to use ozone and hydrogen peroxide (H₂O₂) to further reduce the petroleum hydrocarbon concentrations in the groundwater. The proposed delivery system can deliver up to 37 g/hr of ozone from 20 scf/hr of 90% oxygen feed. Ozone concentration will not exceed 10% of the air stream. For full scale operation over the groundwater plume area up to 3 – 4 lbs/day of ozone will be sparged into the groundwater bearing zone. A 10% hydrogen peroxide strength solution will be used. A delivery of < 1 gallon of 10% hydrogen peroxide solution will be utilized during the pilot phase with a delivery of an estimated 20 gallons/day during the full scale implementation of the remediation system over the groundwater plume area.

Any potential adverse water quality impacts that may result shall be localized, of short-term duration, and shall not impact any existing or prospective uses of groundwater.

Regional Board staff have determined that the proposed discharge meets the conditions specified in Order No. R4-2005-0030, "*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 your Waste Discharge Requirements, consisting of Regional Board Order No. R4-2005-0030 (Series No. 061) and Monitoring and Reporting Program No. CI-9193 and Standard Provisions.

The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this enrollment (November 2, 2006) under Regional Board Order No. R4-2005-0030. You are required to utilize up to six injection wells (two near MW-6, two near MW-7, and two near MW-10) as injection points dedicated to the introduction of the ozone and hydrogen peroxide in order to meet the conditions specified in Order No. R-4-2005-0030 for the proposed project. The existing monitoring wells shall not be used as injection points. All monitoring reports shall 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-9193, 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 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, please contact Mr. Rodney Nelson at (213) 620-6119.

Sincerely,

Jonathan S. Bishop
Executive Officer

California Environmental Protection Agency



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Mr. Sandy Sigal
Ventu Thousand Oaks, LLC

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Enclosures: 1. Board Order No. R4-2005-0030
2. Monitoring and Reporting Program No. CI-9193

cc: Ms. Yvonne Shanks, State Water Resources Control Board, Underground Storage Tank Cleanup Fund
Mr. Chris Nagler, Department of Water Resources, Southern District
Ms. Nancy Matsumoto, Water Replenishment District of Southern California
Mr. Richard Wagener, Los Angeles County Department of Health Services, Water Well Permits / Well Abandonment
Mr. Tim Smith, Los Angeles County Department of Public Works, Underground Storage Tank Program
Mr. Eric Smith, Waterstone Environmental, Inc.
Ms. Carol Serlin, ENVIRON International Corporation

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