



California Regional Water Quality Control Board

Los Angeles Region



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Acting Agency Secretary

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Arnold Schwarzenegger
Governor

FACT SHEET

WASTE DISCHARGE REQUIREMENTS for RESEDA HAND CAR WASH

Order No. R4-2005-0030, Series No. 045
CI No.: 9087
UST Case No.: 913350898

| <u>FACILITY ADDRESS</u> | <u>RESPONSIBLE PARTY</u> | <u>RP'S CONSULTANT</u> |
|---|---|---|
| Reseda Hand Car Wash 7601 Reseda Blvd. Reseda, CA 91335 | Reseda Hand Car Wash 7601 Reseda Blvd. Reseda, CA 91335 Contact: Vahe Affandilian Tel: (818) 881-5522 | The Reynolds Group 250 El Camino Real, Suite #204 Tustin, CA 92781-1996 Contact: Daniel Nunez Tel: (714) 730-5397X126 |

Site Background

- Site Description:

The site is currently a car wash facility. The site was a gasoline station prior to becoming a car wash facility. Two gasoline underground storage tanks (10,000 gallon and 7,500 gallon) were removed in 1999. The station is located on the east side of Reseda Boulevard and south side of Saticoy Street. The surrounding land uses are residential properties on the west side and commercial properties on the north side.

- Site geology and hydrology:

The site is located in the San Fernando Groundwater Basin. Groundwater was encountered in 11 monitoring wells at approximately 11 to 13 feet below ground surface (bgs). The nearest water supply well to this site is well No. 02N16W34K02S, located approximately 2,998 feet away.

- Site Assessment:

In August 1999, two USTs were removed from the site. Since August 1993, eleven (11) groundwater monitoring wells were installed and numerous soil borings were advanced to define the extent of petroleum hydrocarbon contamination and to characterize soil and groundwater beneath the site. The highest concentrations of TPHg, benzene, and MTBE detected in soil during these investigations were 669,997, 1.1, and 22 mg/kg, respectively.

California Environmental Protection Agency



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

Periodic groundwater monitoring also recorded TPHg, benzene, and MTBE at concentrations up to 42,000, 3,500, and 5,365 µg/L respectively.

- Site Remediation:

In August 1999 approximately 600 tons of impacted soils were removed in the vicinity of the underground storage tanks during over-excavations activities.

Regional Board staff directive letter dated June 29, 2005 approved a remedial action plan to excavate contaminated soils to the water table and insert a thin layer of ORC at the capillary fringe prior to backfilling the excavation pit to enhance intrinsic bioremediation of residual fuel constituents in the groundwater.

Waste Discharge

- Description of Waste Discharge:

ORC is used to enhance intrinsic bioremediation. Enhanced bioremediation involves the addition of electron acceptors/donors (e.g., oxygen), nutrients (nitrogen, phosphorus), or enzymes to the subsurface environment to accelerate the natural degradation process. To support an aerobic bacterial population, oxygen is supplied to the subsurface using an oxygen-supplying technology (oxygen diffusion, ORC, hydrogen peroxide injection, etc.). Microorganisms utilize the oxygen (electron acceptor) and hydrocarbons (electron donor) towards metabolism and synthesis. The hydrocarbons are degraded to carbon dioxide and water.

- Waste Discharge Requirements:

The proposed application of ORC into groundwater meets all the criteria for enrollment under 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.

- Monitoring and Reporting:

Five groundwater-monitoring wells are selected to monitor the impact of ozone injection to groundwater. These wells include upgradient well MW4, source wells MW1 and MW9, and downgradient wells MW7 and MW10. Groundwater samples will be analyzed for all constituents specified in the attached Monitoring and Reporting Program.

Rationale and Justifications

- The proposed application of ORC into the ground meets all eligibility required by the Board Order No. R04-2005-0030. These criteria include:

- Purpose is for remediation of gasoline impacted site;

- Threat to water quality is 3-A;
 - A Remedial Action Plan has been approved; and
 - ORC is used for oxidation/aerobic degradation enhancement.
- Oxygen supplying technology has been approved for use in California.
 - The application of ORC at low concentrations beneath the ground does not constitute an application of hazardous material because:
 - Locations of ORC occur beneath the groundwater surface; and
 - Small quantity
 - CEQA: Negative Declaration
 - Discharger has paid annual fee.

Recommendation

Staff recommends that subject discharge is enrolled under coverage of Board Order No. R4-2005-0030.