

**STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

STAFF REPORT FOR REGULAR MEETING OF MAY 12-13, 2010

Prepared April 12, 2010

ITEM NUMBER: 12

SUBJECT: Low Threat and General Discharge Cases

DISCUSSION The following items serve as notification that the subject sites have been enrolled under the noted General WDR or General Waiver of WDRs.

General Waiver for Specific Types of Discharges, Resolution No. R3-2008-0010

**Mike's Texaco, 134 South Milpas Street, Santa Barbara, Santa Barbara County
(John Mijares 805-549-3696)**

Santa Barbara County Fire Prevention Division staff approved a Remedial Action Plan (RAP) for the above-referenced site on December 17, 2009. The RAP includes a proposal to inject an ozone-air mixture to the subsurface to destroy petroleum hydrocarbon contaminants in groundwater at this site. The introduction of ozone to the subsurface requires compliance with the Central Coast Water Board's General Waiver for Specific Types of Discharge, Resolution No. R3-2008-0010 (General Waiver). Geo-Cal, Inc. submitted an application for coverage under the General Waiver, on behalf of the responsible parties (Mr. Aeid Abdullatif and Mr. Edward Loper, Sr). The application provides the necessary information to fully comply with the requirements for enrollment under the Central Coast Water Board's General Waiver. On February 11, 2010, Central Coast Water Board staff enrolled the subject site under the General Waiver.

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has issued a Notice of Applicability to Mr. Aeid Abdullatif and Mr. Edward Loper, Sr. (RPs for Mike's Texaco) for ozone-air sparging at the subject site.

**Former Furtado Property, 445 Green Valley Road, Watsonville, Santa Cruz County
(John Mijares 805-549-3696)**

Weber, Hayes & Associates (WHA), on behalf of Mr. Ed Furtado (the responsible party), proposes to implement a corrective action at the site using dual-phase extraction, air sparging, and re-injection of treated groundwater to remediate petroleum hydrocarbon contamination in soil and groundwater. The injection of treated groundwater to the subsurface requires compliance with the General Waiver for Specific Types of Discharges, Resolution R3-2008-0010 (General Waiver). On March 25, 2010, WHA submitted a complete Report of Waste Discharge for the re-injection. The proposal

complies with requirements of the General Waiver except for the provisions of Section 5.b., which requires the discharge location be greater than 200 feet from a water supply well. The proposed injection location is approximately 50 feet hydraulically downgradient of an existing agricultural well, also located within the same property. Water Board staff exempted the responsible party from this requirement based on the following:

1. The agricultural well is 50 feet upgradient (northwest) of the proposed treated water injection wells and the hydrocarbon plume;
2. The shallow groundwater flow direction has been consistently to the south-southeast;
3. The agricultural well is screened between 220 to 260 feet below ground surface (bgs) and has an intact sanitary seal of at least 50 feet. Soil borings at the site indicate a fat clay layer starting at approximately 19 feet bgs to the maximum depth explored at 20 feet bgs. This fat clay serves as a barrier to vertical groundwater flow and vertical migration of the dissolved hydrocarbon plume;
4. The re-injected groundwater is of the same quality as the extracted groundwater except for the removal of hydrocarbons by the granular activated carbon (GAC) filters. The GAC filters remove petroleum hydrocarbons by adsorption and do not remove inorganic constituents such as salts, nitrates, sulfates, chlorides (to name a few) and all the other inorganic constituents in water. Therefore, the quality of injected groundwater except for the removal of petroleum hydrocarbons and other incidental organic compounds in groundwater is the same as the extracted groundwater prior to passing through the GAC;
5. The re-injection wells (screened between 5 and 20 feet bgs) are located upgradient of the two extraction wells, which will pull the hydrocarbon plume and injected water towards the extraction wells and away from the agricultural well. The natural groundwater flow direction is to the south-southeast and the extraction of groundwater downgradient of the injection points, which will create a cone of depression which will increase the gradient and groundwater flow towards the extraction wells.
6. The injected groundwater or hydrocarbon plume is not expected to impact the agricultural well. This conclusion is based on the actual screen location of the agricultural supply well, the measured groundwater elevation, calculated gradient and flow direction, and site hydrology. These parameters will be verified and monitored by groundwater monitoring and operational data of the DPE/AS system.

With the above exemption, the proposed re-injection of treated groundwater will fully comply with the requirements of the General Waiver. On April 6, 2010, Water Board staff issued a Notice of Applicability to Mr. Furtado for the re-injection of treated groundwater to the subsurface at the site.

This staff report serves as a notification to the Central Coast Water Board that Water Board staff has issued Mr. Furtado a Notice of Applicability for coverage under this General Waiver for the proposed treated groundwater re-injection.

General Waste Discharge Requirements for Discharge of Winery Waste**Halter Ranch Vineyard, Paso Robles, San Luis Obispo County (Tom Kukol 805-549-3689)**

Water Board staff enrolled Halter Ranch Vineyard under the General Waste Discharge Requirements for Discharges of Winery Waste (General WDRs) on March 17, 2010. Halter Ranch Vineyard is located at 8910 Adelaida Road in Paso Robles, San Luis Obispo County. Halter Ranch Vineyard expects to produce up to 50,000 cases annually. Peak process wastewater flows will be approximately 5,000 gallons per day. Large solids will be separated through a mechanical screen to an aerated-facultative lagoon, then to 1.5-acre irrigation disposal area. Pomace will be disced into the soil throughout the vineyard. The domestic wastewater discharges are separate from the winery wastewater discharges. The depth to groundwater is at least 20 feet below ground surface. Enrollment under the General WDRs requires Halter Ranch Vineyard to follow Monitoring and Reporting Program (MRP) No. R3-2008-0018. Water Board staff will begin regular compliance inspections of Halter Ranch Vineyard this fall.

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