

California Regional Water Quality Control Board
Santa Ana Region

June 7, 2013

STAFF REPORT

Tentative

ITEM: *8

SUBJECT: Amendment to Order No. R8-2002-0033 – General Waste Discharge Requirements for the re-injection/percolation of extracted and treated groundwater resulting from the cleanup of groundwater polluted by petroleum hydrocarbons, solvents and/or petroleum hydrocarbons mixed with lead and/or solvents within the Santa Ana Region, Order No. R8-2013-0020

DISCUSSION:

On May 31, 2002, the Regional Board adopted Order No. R8-2002-0033 for the re-injection/percolation of extracted and treated groundwater resulting from the cleanup of groundwater polluted by petroleum hydrocarbons, solvents and/or petroleum hydrocarbons mixed with lead and/or solvents.

On October 3, 2003, Order No. R8-2002-0033 was amended by Order No. R8-2003-0085 to incorporate a tert-butyl alcohol (TBA) compliance determination provision based on TBA studies and to incorporate limits for both isomeric forms of 1,2-dichloroethylene, 1,4-dioxane and perchlorate. Order R8-2003-0085 also revised Monitoring and Reporting Program No. R8-2002-0033 to update section B., Influent Monitoring, and section C.1, Effluent Monitoring, to include monitoring for cis 1,2-dichloroethylene and trans 1,2-dichloroethylene.

Order No. R8-2013-0020 will revise the average monthly concentration limits for 1,4-dioxane and perchlorate due to changes to drinking water standards that have occurred since 2003. The proposed new limit for 1,4-dioxane continues to be based on the notification level for that chemical. The notification level was revised from 3 µg/l to 1 µg/l by California Department of Public Health (CDPH) in November 2010. The proposed new limit for perchlorate is based on the maximum contaminant level (MCL) for that chemical adopted by CDPH on October 18, 2007. The MCL replaced the notification level, which the current limit was based on. These new limits are consistent with those recently adopted in the Regional Board's General Groundwater Cleanup permit for discharges to surface waters, Order No. 2012-0027, NPDES No. CAG918001.

Order No. R8-2013-0020 will amend a portion of the Discharge Limitations A.1. of Order No. R8-2002-0033 as follows: Additions are **bold**, deletions are ~~strikethrough~~.

1. The discharge of wastes containing constituent concentrations in excess of the following limits is prohibited:

Constituent	Average Monthly Concentration Limit
1,4-Dioxane	1 μ g/l
Perchlorate	6.4 μ g/l

All other terms and conditions remain unchanged.

RECOMMENDATION:

Adopt Order No. R8-2013-0020, as presented.

Comments were solicited from the following agencies and persons:

State Water Resources Control Board, Division of Water Quality – Victoria Whitney
State Department of Water Resources, Glendale
California Department of Public Health, San Bernardino – Sean McCarthy
California Department of Public Health, San Diego – Steve Williams
California Department of Public Health, Santa Ana – Oliver Pacifico
Orange County Health Care Agency – Larry Honeybourne
Orange County Public Works – Chris Crompton
Orange County Water District – Nira Yamachika / Dave Mark
Riverside County Environmental Health – John Watkins
San Bernardino County Environmental Health Services – Daniel Avera
Orange County Coastkeeper – Garry Brown
Lawyers for Clean Water – Daniel Cooper
AC Products – Susi Karlan
Dudek – Steven Stuart
Exxon Mobil Oil Corporation – Marla Madden
Cardno ERI – Jeff Leist
Grace L. Winn Trust – Kathlene Lowe
Atlas Environmental Engineering, Inc. – Karl Kerner
Poma Automated Fueling – Joanne Merrett
Aqua Science Engineers – David Schultz
Pulliam Family Trust – John Pulliam
Ami Adini and Associates, Inc. – Larry Witwer
Raytheon Company – Paul Brewer
Hargis and Associates, Inc. – Danielle Ondic
San Bernardino County Waste Management – Arthur Rivera / Sharon Bishop

California Regional Water Quality Control Board
Santa Ana Region

Order No. R8-2013-0020

Amending Order No. R8-2002-0033

General Waste Discharge Requirements for the Re-injection/Percolation of Extracted and Treated Groundwater Resulting from the Cleanup of Groundwater Polluted by Petroleum Hydrocarbons, Solvents and/or Petroleum Hydrocarbons Mixed with Lead and/or Solvents within the Santa Ana Region

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that:

1. On May 31, 2002, the Regional Board adopted Order No. R8-2002-0033, for the reinjection/percolation of extracted and treated groundwater resulting from the cleanup of groundwater polluted by petroleum hydrocarbons, solvents and/or petroleum hydrocarbons mixed with lead and/or solvents.
2. On October 3, 2003, Order No. R8-2002-0033 was amended by Order No. R8-2003-0085 to add a new compliance determination provision for the tert butyl alcohol (TBA) and to add average monthly limits for cis 1,2-dichloroethylene; trans 1,2-dichloroethylene; 1,4-dioxane; and perchlorate.
3. Order No. R8-2002-0033 is being revised to incorporate new limits for 1,4-dioxane and perchlorate based on new standards adopted by the California Department of Public Health.
4. The amendment of waste discharge requirements for the cleanup of defined groundwater contamination plume(s) is for the protection of the environment and, as such, is exempt from the California Environmental Quality Act (Public Resources Code, Section 21100 et. seq.) in accordance with Section 15308, Chapter 3, Title 14, California Code of Regulations.
5. The Regional Board has notified all dischargers currently enrolled under Order No. R8-2002-0033 and other interested agencies and persons of its intent to amend the Order and has provided them with an opportunity to submit their written views and recommendations.
6. The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Order No. R8-2002-0033 be amended as follows:

1. The following portion of Discharge Specification A.1. of Order No. R8-2002-0033 be revised as follows:

Constituent	Average Monthly Concentration Limit
1,4-Dioxane	1 µg/l
Perchlorate	6 µg/l

2. This amendment shall become effective upon the adoption of this Order.
3. All other conditions and requirements of Order No. R8-2002-0033, as amended by Order No. R8-2003-0085, including attachments, shall remain unchanged.

I, Kurt V. Berchtold, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on June 7, 2013.

Kurt V. Berchtold
Executive Officer