

California Regional Water Quality Control Board
North Coast Region

MONITORING AND REPORTING PROGRAM NO. R1-2010-0069
(Rescinding and Replacing Revised Monitoring and Reporting Program R1-2003-0124)

For

Jackson Family Estates I, LCC
Olivet Ranch
3739 Piner Road
Santa Rosa, California

Sonoma County

This Monitoring and Reporting Program (M&RP) is issued pursuant to California Water Code Section (CWC) 13267 (b) and requires monitoring of groundwater and submission of technical reports. Reports are required on a semiannual basis. The objective of monitoring conducted under this monitoring program is to provide the Dischargers and the Regional Water Board with information concerning groundwater quality and contaminant trends at the site.

Under the authority of CWC section 13267, the Dischargers named above are required to comply with the following:

MONITORING

1. The depth to groundwater in IP-2, IP-4, and IP-5 shall be determined to at least 0.01 foot increments semiannually. The data generated from the elevation readings must be referenced to the same elevation datum used for the electronic GeoTracker survey values.
2. Groundwater in injection wells IP-2, IP-4, and IP-5 shall be monitored semiannually for dissolved oxygen, oxidation-reduction potential, pH, temperature, and specific conductivity.
3. Injection wells IP-2, IP-4, and IP-5 shall be sampled on a semiannual basis during the 1st and 3rd quarters of the year. The analyses shall be performed at a certified laboratory for total petroleum hydrocarbon as Coleman Fuel, total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, and xylenes (total).

REPORTING

4. A groundwater elevation contour map shall be submitted for each set of measurements and shall include the following:
 - Location of the facilities;
 - Location of the monitoring wells; and
 - Groundwater flow pattern including the direction of the groundwater gradient.

5. A contamination isoconcentration map shall be submitted for each significant pollutant detected during the monitoring events and shall include the following:
 - Location of the facilities or structures;
 - Location of the monitoring wells and injection wells; and
 - Concentration of pollutant detected at each sample point.
6. Current and previous analytical results shall be reported in tables which include the following:
 - Identification of the sampling point;
 - Date of sample collection;
 - Constituents and analytical results; and
 - Method detection limits.
7. Each report shall contain copies of the well purging and sampling field logs; chain of custody documents showing the time and date of collection and person collecting; and signed laboratory sheets including quality control data and explanations of analytical anomalies, if any. These supporting documents may be included as appendices to the report.
8. Semiannual monitoring reports shall be submitted to this office in accordance with the following schedule:

| <u>Reporting Period</u> | <u>Date Due</u> |
|--|------------------------|
| January, February, March (1 st Quarter) | April 30 |
| July, August, September (3 rd Quarter) | October 30 |

Ordered by _____

Catherine Kuhlman
Executive Officer

July 26, 2010