Mr. Harold Moskowite (Discharger) owns the land and facility, formerly known as Jeri’s Got Gas Station, located at 6000 Steele Canyon Road in Lake Berryessa, Napa County (site). The site is southwest and upgradient from a residential trailer park that has an active water supply well. Operations at the site have resulted in petroleum hydrocarbon polluted soil and groundwater. This pollution impaired the beneficial uses of this water resource. The Discharger has conducted an ozone sparging pilot test.

This Monitoring and Reporting Program (MRP) is issued pursuant to Section 13267 of the California Water Code and is necessary to delineate groundwater pollutant plumes and determine whether remediation efforts are effective. Existing data and information about the site show the presence of various chemicals, including total petroleum hydrocarbons (TPH) as gasoline, TPH as diesel, benzene, toluene, ethylbenzene, xylene, methyl tertiary butyl ether (MTBE), tertiary amyl methyl ether (TAME), and tertiary butyl alcohol (TBA) emanating from the property under the control of the Discharger. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer.

Prior to construction of any new groundwater monitoring or extraction wells, and prior to destruction of any groundwater monitoring or extraction wells, the Discharger shall submit plans and specifications to the Regional Board for review and approval. Once installed, all new wells shall be added to the monitoring program and shall be sampled and analyzed according to the schedule below.

**GROUNDWATER MONITORING**

As shown on Figure 1, there are 17 monitoring wells, two observations wells, one injection well, and two domestic wells. The groundwater monitoring program for the 17 monitoring wells and any wells installed subsequent to the issuance of this MRP, shall follow the schedule below. If sampling requirements for elimination of constituents have already been met, the Discharger is not required to sample for those constituents again based on the requirements in this MRP. Monitoring wells with free phase petroleum product or visible sheen shall be monitored, at a minimum, for product thickness and depth to water. Sample collection and analysis shall follow standard EPA protocol.
### Constituents

<table>
<thead>
<tr>
<th>Constituent</th>
<th>EPA Analytical Method</th>
<th>Maximum Practical Quantitation Limit</th>
<th>Sampling Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth to Groundwater</td>
<td>---</td>
<td>---</td>
<td>Quarterly</td>
</tr>
<tr>
<td>TPH as Gasoline</td>
<td>8015M</td>
<td>50</td>
<td>Quarterly</td>
</tr>
<tr>
<td>TPH as Diesel</td>
<td>8015M</td>
<td>50</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Benzene</td>
<td>8020 or 8260B</td>
<td>0.5</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Toluene</td>
<td>8020 or 8260B</td>
<td>0.5</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>8020 or 8260B</td>
<td>0.5</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Xylene</td>
<td>8020 or 8260B</td>
<td>0.5</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Dissolved Lead&lt;sup&gt;2&lt;/sup&gt;</td>
<td>7421</td>
<td>10</td>
<td>Quarterly</td>
</tr>
<tr>
<td>MTBE&lt;sup&gt;3&lt;/sup&gt;</td>
<td>8260B</td>
<td>0.5</td>
<td>Quarterly</td>
</tr>
<tr>
<td>TBA&lt;sup&gt;3&lt;/sup&gt;</td>
<td>8260B</td>
<td>5</td>
<td>Quarterly</td>
</tr>
<tr>
<td>TAME&lt;sup&gt;3&lt;/sup&gt;</td>
<td>8260B</td>
<td>0.5</td>
<td>Quarterly</td>
</tr>
<tr>
<td>DIPE&lt;sup&gt;3&lt;/sup&gt;</td>
<td>8260B</td>
<td>0.5</td>
<td>Quarterly</td>
</tr>
<tr>
<td>ETBE&lt;sup&gt;3&lt;/sup&gt;</td>
<td>8260B</td>
<td>0.5</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Ethanol&lt;sup&gt;3&lt;/sup&gt;</td>
<td>8260B</td>
<td>50</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Methanol&lt;sup&gt;3&lt;/sup&gt;</td>
<td>8260B</td>
<td>100</td>
<td>Quarterly</td>
</tr>
</tbody>
</table>

1. For nondetectable results in micrograms per liter. All concentrations between the Method Detection Limit and the Practical Quantitation Limit shall be reported as trace.

2. If dissolved lead is detected, the Discharger shall perform verification sampling within 30 days of submittal of the monitoring report. If lead pollution is verified, the Discharger shall continue quarterly monitoring for dissolved lead. If the presence of dissolved lead is not confirmed, no further test is required.

3. Fuel oxygenates, including MTBE, TBA, TAME, di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), ethanol and methanol shall be analyzed in all monitoring wells during two monitoring events in the first and third quarters. If results are nondetectable for fuel oxygenates for both sampling events, no further monitoring for oxygenates is required in that well. If a fuel oxygenate is detected, it shall be added to the quarterly monitoring program for the well in which it was detected.

### Reporting

When reporting the data, the Discharger shall arrange the information in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized in such a manner as to illustrate clearly the compliance with this Order. In addition, the Discharger shall notify the Regional Board within 48 hours of any unscheduled shutdown of any soil vapor and/or groundwater extraction system.

As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all reports shall be prepared by a registered professional or their subordinate and signed by the registered professional.

The Discharger shall submit quarterly electronic data reports, which conform to the requirements of the California Code of Regulations, Title 23, Division 3, Chapter 30. The quarterly reports shall be submitted electronically over the internet to the Geotracker database system by the 1st day of the second month following the end of each calendar quarter by 1 February, 1 May, 1 August, and 1 November until such time as the Executive Officer determines that the reports are no longer necessary.

Quarterly reports shall be submitted to the Regional Board by the 1st day of the second month following the end of each calendar quarter (i.e., by 1 February, 1 May, 1 August, and 1 November).
until such time as the Executive Officer determines that the reports are no longer necessary. Each quarterly report shall include the following minimum information:

(a) a description and discussion of the groundwater sampling event and results, including trends in the concentrations of pollutants and groundwater elevations in the wells, how and when samples were collected, and whether the pollutant plume(s) is delineated;

(b) field logs that contain, at a minimum, water quality parameters measured before, during, and after purging, method of purging, depth of water, volume of water purged, etc.;

(c) groundwater contour maps for all groundwater zones, if applicable;

(d) isocontour pollutant concentration maps for all groundwater zones, if applicable;

(e) a table showing well construction details such as well number, groundwater zone being monitored, coordinates (longitude and latitude), ground surface elevation, reference elevation, elevation of screen, elevation of bentonite, elevation of filter pack, and elevation of well bottom;

(f) a table showing historical lateral and vertical (if applicable) flow directions and gradients;

(g) cumulative data tables containing the water quality analytical results and depth to groundwater;

(h) a copy of the laboratory analytical data report;

(i) if applicable, the status of any ongoing remediation, including cumulative information on the mass of pollutant removed from the subsurface, system operating time, the effectiveness of the remediation system, and any field notes pertaining to the operation and maintenance of the system; and

(j) if applicable, the reasons for and duration of all interruptions in the operation of any remediation system, and actions planned or taken to correct and prevent interruptions.

An Annual Report shall be submitted to the Regional Board by 1 February of each year. This report shall contain an evaluation of the effectiveness and progress of the investigation and remediation, and may be combined with the fourth quarter monitoring report. The Annual Report shall contain the following minimum information:

(a) both tabular and graphical summaries of all data obtained during the year;

(b) groundwater contour maps and pollutant concentration maps containing all data obtained during the previous year;

(c) a discussion of the long-term trends in the concentrations of the pollutants in the groundwater monitoring wells;
(d) an analysis of whether the pollutant plume is being captured by an extraction system or is continuing to spread;

(e) a description of all remedial activities conducted during the year, an analysis of their effectiveness in removing the pollutants, and plans to improve remediation system effectiveness;

(f) the anticipated date for completion of cleanup activities;

(g) an identification of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program; and

(h) if desired, a proposal and rationale for any revisions to the groundwater sampling plan frequency and/or list of analytes.

The results of any monitoring done more frequently than required at the locations specified in the MRP also shall be reported to the Regional Board. The Discharger shall implement the above monitoring program as of the date of the Order.

Ordered by: ___________ signed by ___________

THOMAS R. PINKOS, Executive Officer

__________________________
20 May 2005
(Date)