This revised Monitoring and Reporting Program (MRP) contains requirements for monitoring of wastewater disposed of via a leachfield at the Indian Rock Subdivision. This MRP is issued pursuant to Water Code Section 13267. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer. Specific sample station locations shall be approved by Regional Board staff prior to implementation of sampling activities.

All wastewater samples should be representative of the volume and nature of the discharge. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form. All samples shall be collected and preserved in accordance with EPA and analytical methodology.

Field testing instruments (such as those used to test pH, dissolved oxygen, and electrical conductivity [EC]) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;
2. The instruments are calibrated prior to each monitoring event;
3. Instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are provided with the appropriate monitoring report.

**EFLUENT MONITORING**

Samples of effluent shall be taken at the point of discharge to the leachfield. At a minimum, effluent monitoring shall consist of the following:

<table>
<thead>
<tr>
<th>Constituent/Parameter</th>
<th>Units</th>
<th>Type of Sample</th>
<th>Sampling Frequency</th>
<th>Reporting Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow¹</td>
<td>mgd</td>
<td>Observation</td>
<td>Daily</td>
<td>Monthly</td>
</tr>
<tr>
<td>BOD²</td>
<td>mg/L</td>
<td>Grab</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Total Dissolved Solids</td>
<td>mg/L</td>
<td>Grab</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Total Nitrogen</td>
<td>mg/L</td>
<td>Grab</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
<tr>
<td>pH</td>
<td>pH units</td>
<td>Grab</td>
<td>Quarterly</td>
<td>Quarterly</td>
</tr>
</tbody>
</table>

¹ Daily flows may be calculated based on weekly flow monitoring data.
² 5-day Biochemical Oxygen Demand.
Leachfield monitoring will consist of a visual inspection of the leachfield. When wastewater is discharged to these areas will be monitored on a weekly basis for the presence of surfacing effluent, seepage, objectionable odors, any areas of saturation, and signs of erosion. Leachfield monitoring results shall be included with all monthly monitoring reports.

**GROUNDWATER MONITORING**

Prior to construction and/or sampling of any groundwater monitoring 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 MRP and shall be sampled and analyzed according to the schedule below.

Prior to sampling, the groundwater elevations shall be measured and the wells shall be purged at least three well volumes until temperature, pH and electrical conductivity have stabilized. Depth to groundwater shall be measured to the nearest 0.01 feet. Samples shall be collected using standard EPA methods. Groundwater monitoring shall include, at a minimum, the following:

<table>
<thead>
<tr>
<th>Constituents/Parameter</th>
<th>Units</th>
<th>Type of Sample</th>
<th>Sampling and Reporting Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth to Groundwater</td>
<td>0.01 feet</td>
<td>Measurement</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Groundwater Elevation&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.01 feet</td>
<td>Calculated</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Gradient</td>
<td>feet/feet</td>
<td>Calculated</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Gradient Direction</td>
<td>degrees</td>
<td>Calculated</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Total Coliform Organisms</td>
<td>MPN/100 ml</td>
<td>Grab</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Nitrate as Nitrogen</td>
<td>mg/l</td>
<td>Grab</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Total Kjeldahl Nitrogen</td>
<td>mg/l</td>
<td>Grab</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Total Dissolved Solids</td>
<td>mg/l</td>
<td>Grab</td>
<td>Quarterly</td>
</tr>
<tr>
<td>pH</td>
<td>pH units</td>
<td>Grab</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Standard Minerals&lt;sup&gt;2&lt;/sup&gt;</td>
<td>mg/l</td>
<td>Grab</td>
<td>Annually</td>
</tr>
</tbody>
</table>

<sup>1</sup> Groundwater elevation shall be determined based on depth-to-water measurements using a surveyed measuring point elevation on the well and a surveyed reference elevation.

<sup>2</sup> Standard Minerals shall include the following compounds: Calcium, Magnesium, Sodium, Chloride, Sulfate, Total Alkalinity (including alkalinity series), and Hardness.

**REPORTING**

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, leachfield, groundwater well, etc.), and reported analytical result for each sample are readily discernible. The data shall be summarized in such a manner to clearly illustrate compliance with waste discharge requirements and spatial or temporal trends, as applicable. The results of any monitoring done more frequently than required at the locations specified in the Monitoring and Reporting Program shall be reported in the next scheduled monitoring report.

As required by the California Business and Professions Code Sections 6735, 7835, and 7835.1, all groundwater monitoring reports shall be prepared under the direct supervision of a California
A. Monthly Monitoring Reports

Daily, weekly, and monthly monitoring data shall be reported in monthly monitoring reports. Monthly reports shall be submitted to the Regional Board on the 1st day of the second month following sampling (i.e. the January Report is due by 1 March). At a minimum, the reports shall include:

1. Results of effluent and leachfield monitoring;

2. A comparison of monitoring data to the discharge specifications and an explanation of any violation of those requirements. Data shall be presented in tabular format;

3. If requested by staff, copies of laboratory analytical report(s); and

4. A calibration log verifying calibration of all hand-held monitoring instruments and devices used to comply with the prescribed monitoring program.

B. Quarterly Monitoring Reports

The Discharger shall establish a quarterly sampling schedule for groundwater monitoring such that samples are obtained approximately every three months. Quarterly monitoring reports shall be submitted to the Regional Board by the 1st day of the second month after the quarter (i.e. the January-March quarterly report is due by May 1st) and may be combined with the monthly report. The Quarterly Report shall include the following:

1. Results of groundwater monitoring.

2. A narrative description of all preparatory, monitoring, sampling, and analytical testing activities for the groundwater monitoring. The narrative shall be sufficiently detailed to verify compliance with the WDRs, this MRP, and the Standard Provisions and Reporting Requirements. The narrative shall be supported by field logs for each well documenting depth to groundwater; parameters measured before, during, and after purging; method of purging; calculation of the casing volume; and total volume of water purged.

3. Calculation of groundwater elevations, an assessment of the groundwater flow direction and gradient on the date of measurement, comparison to previous flow direction and gradient data, and discussion of seasonal trends, if any.

4. A narrative discussion of the analytical results for all media and locations monitored, including spatial and temporal trends, with reference to summary data tables, graphs, and appended analytical reports (as applicable).

5. A comparison of monitoring data to the discharge specifications, groundwater limitations and surface water limitations, and explanation of any violation of those requirements.
6. Summary data tables of historical and current water table elevations and analytical results.

7. A scaled map showing relevant structures and features of the facility, the locations of monitoring wells and other sampling stations, and groundwater elevation contours referenced to mean sea level datum.

8. If requested by staff, copies of laboratory analytical report(s);

C. Annual Report

An Annual Report shall be prepared as the fourth quarter monitoring report. The Annual Report will include all monitoring data required in the monthly/quarterly schedule. The Annual Report shall be submitted to the Regional Board by 1 February each year. In addition to the data normally presented, the Annual Report shall include the following:

1. The contents of the regular Quarterly Monitoring Report for the last quarter of the year.

2. If requested by staff, tabular and graphical summaries of all data collected during the year;

3. Data for monitoring and analysis performed on an annual basis (i.e., standard minerals);

4. An evaluation of the performance of the wastewater treatment system, as well as a forecast of the flows anticipated in the next year;

5. A discussion of compliance and the corrective actions taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements;

6. An evaluation of the groundwater quality beneath the wastewater treatment facility.

7. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program;

8. A copy of the certification for each certified wastewater treatment plant operator working at the facility and a statement about whether the Discharger is in compliance with Title 23, CCR, Division 3, Chapter 26.

A letter transmitting the self-monitoring reports shall accompany each report. Such a letter shall include a discussion of requirement violations found during the reporting period, and actions taken or planned for correcting noted violations, such as operation or facility modifications. If the Discharger has previously submitted a report describing corrective actions and/or a time schedule for implementing the corrective actions, reference to the previous correspondence will be satisfactory. The transmittal letter shall contain the penalty of perjury statement by the Discharger, or the Discharger's authorized agent, as described in the Standard Provisions General Reporting Requirements Section B.3.
The Discharger shall implement the above monitoring program as of 1 August 2002.

Ordered by: _____________________________

THOMAS R. PINKOS
Acting Executive Officer

10 July 2002
(Date)

J SK: 7/8/02