This Monitoring and Reporting Program (MRP) describes requirements for monitoring operations of a water treatment plant, including backwash wastewater discharged to unlined settling ponds. This MRP is issued pursuant to Section 13267 of the California Water Code (CWC). The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer. Central Valley Regional Water Quality Control Board (Regional Water Board) staff shall approve specific sample station locations prior to implementation of sampling activities.

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each grab sample shall be recorded on the sample chain of custody form. Field instruments (such as those used to measure residual chlorine) 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. The instruments are serviced and/or calibrated per the manufacturer’s recommended frequency; and
4. Field calibration reports are submitted with the monthly reports.

**BACKWASH WASTEWATER MONITORING**

The Discharger shall report the following regarding the backwash wastewater:

<table>
<thead>
<tr>
<th>Parameter/Constituent</th>
<th>Units</th>
<th>Type of Sample</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow</td>
<td>gpd</td>
<td>Continuous</td>
<td>Daily</td>
</tr>
<tr>
<td>Residual Chlorine</td>
<td>mg/L</td>
<td>Grab</td>
<td>Weekly</td>
</tr>
<tr>
<td>pH</td>
<td>standard</td>
<td>Grab</td>
<td>Monthly</td>
</tr>
<tr>
<td>Electrical Conductivity</td>
<td>umhos/cm</td>
<td>Grab</td>
<td>Monthly</td>
</tr>
<tr>
<td>Trihalomethanes(^1)</td>
<td>ug/L</td>
<td>Grab</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Dissolved Metals(^2)</td>
<td>ug/L</td>
<td>Grab</td>
<td>Annually</td>
</tr>
<tr>
<td>Standard Minerals(^3)</td>
<td>mg/L</td>
<td>Grab</td>
<td>Annually</td>
</tr>
</tbody>
</table>

\(^1\)Trihalomethane sampling shall include: bromoform, bromodichloromethane, chloroform, and dibromochloromethane.

\(^2\)At a minimum, the following metals shall be included: aluminum, antimony, arsenic, cadmium, total chromium, hexavalent chromium, copper, cyanide, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc. Samples shall be filtered through a 0.45-micron filter prior to preservation.

\(^3\)Standard minerals shall include at least the following elements/compounds: boron, calcium, chloride, fluoride, iron, phosphate, potassium, sulfate, total alkalinity (including alkalinity series), and hardness.
POND MONITORING

Each unlined pond shall be monitored as specified below:

<table>
<thead>
<tr>
<th>Parameter/Constituent</th>
<th>Units</th>
<th>Type of Sample</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid Depth and Freeboard</td>
<td>0.1 feet</td>
<td>Staff gauge observation</td>
<td>Monthly</td>
</tr>
</tbody>
</table>

1If the pond is empty on the scheduled monitoring date, the Discharger may report the freeboard monitoring result as “dry”.

SLUDGE MONITORING

The Discharger shall maintain a written log of all sludge disposal activities. For each discrete quantity of sludge removed from the facility, the log shall contain the following information:

1. Date;
2. Name and signature of the recorder of entry;
3. Volume of weight of sludge removed;
4. A representative characterization of removed sludge quality including sludge percent solids and quantitative results of chemical analyses for Title 22 metals and aluminum;
5. Name of user (business, contractor, or landowner, as applicable);
6. Transport method;
7. Transporter;
8. Destination and planned use.

REPORTING

In reporting the data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g. backwash wastewater, backwash pond, 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.

Monthly reports shall be submitted to the Regional Water Board on the 1st day of the second month following sampling (i.e. the January report is due by 1 March).

An annual report shall be submitted to the Regional Water Board by 1 February each year if requested by Regional Water Board staff. In addition to the data normally presented, the annual report shall include the following:

1. Total annual wastewater flows into the backwash ponds.
2. Volume of raw water treated during the previous year.
3. A detailed description of any operational changes.
4. If requested by staff, tabular and graphical summaries of all data collected during the year with data arranged to confirm compliance with the WDR.
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 waste discharge requirements.
7. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.
8. Summary of maintenance and repair activities that were performed on the plant or distribution system.

A letter transmitting all 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 and as shown below:

_I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my knowledge and on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment._

The Discharger shall implement the above monitoring program on the effective date of this Order.

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PAMELA C. CREEDON, Executive Officer

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Date

JMM 2/19/08