

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

REVISED MONITORING AND REPORTING PROGRAM NO. 97-052

FOR  
SUNSWEET DRYERS  
MARYSVILLE FACILITY  
SUTTER COUNTY

The Discharger shall comply with this MRP, issued pursuant to Water Code Section 13267, which describes requirements for monitoring solid waste, collection pit, effluent, and land application areas. The Discharger shall not implement any changes to this MRP unless and until a revised MRP is issued by the Executive Officer.

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 test instruments (such as those used to measure pH and dissolved oxygen) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;
2. The instruments are field-calibrated prior to each monitoring event;
3. The instruments are serviced and/or calibrated by the manufacturer at the recommended frequency; and
4. Field calibration reports are submitted as described in the "Reporting" section of the MRP.

**SOLIDS MONITORING**

The Discharger shall keep a log describing the solid waste produced by the prune processing operations, the quantity of solid waste generated, stored and/or disposed on site, the quantity removed from the site, the person who hauls the solids off site, and all off-site disposal or recycling locations. The log shall clearly identify both on-site and off-site waste disposal or recycling areas, the volume applied to each area, and the acreage of each area. The frequency of log entries is discretionary; however, the log should be complete enough to serve as the basis for an annual report. By 1 February of each year, the above information shall be summarized and included in the Annual Report.

**CEMENT COLLECTION PITS MONITORING**

When wastewater is present, the two cement wastewater collection pits shall be monitored as below. If the collection pit is dry for the entire month, the monitoring report shall so state.

Constituent	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Flow	gpd	Meter Reading or Estimate <sup>1</sup>	Daily	Monthly
Freeboard	0.1 ft.	Measurement	Weekly	Monthly
Dissolved Oxygen <sup>2</sup>	mg/L	Grab	Weekly	Monthly
Odors	--	Observation	Weekly	Monthly

<sup>1</sup> Estimate based on well pump run time meter readings

<sup>2</sup> Samples shall be collected at a depth of one foot, opposite the inlet. Samples shall be collected between 0700 and 0900 hours.

### EFFLUENT MONITORING

When effluent is being produced, effluent samples shall be collected prior to discharge to the land application area (grab samples collected from the discharge pipeline or cement collection pit will be considered representative). If effluent is not produced during a month, the monitoring report shall so state. At a minimum, the Discharger shall monitor the wastewater as follows:

Constituent/Parameter	Units	Sample Type	Sampling Frequency	Reporting Frequency
pH	pH units	Grab	Weekly	Monthly
Total Dissolved Solids	mg/L	Grab	Weekly	Monthly
Fixed Dissolved Solids	mg/L	Grab	Weekly	Monthly
BOD <sub>5</sub> <sup>1</sup>	mg/L	Grab	Weekly	Monthly
Total Kjeldahl Nitrogen	mg/L	Grab	Weekly	Monthly
Nitrate Nitrogen	mg/L	Grab	Weekly	Monthly
Trihalomethanes	ug/l	Grab	Weekly	Monthly

<sup>1</sup> 5-day, 20°C Biochemical Oxygen Demand

### LAND APPLICATION AREA MONITORING

#### A. Daily Pre-Application Inspections

When discharge to the land application area is occurring, the Discharger shall inspect the land application area at least **once daily** prior to and during irrigation events, and observations from those inspections shall be documented in a log book that shall be kept onsite at all times. The following items shall be documented for the land application area for each day during which irrigation is to occur:

1. Evidence of erosion;
2. Berm conditions;
3. Soil saturation;
4. Ponding;
5. Potential runoff to off-site areas;
6. Potential and actual discharge to surface water;
7. Accumulation of organic solids at soil surface;
8. Soil clogging;
9. Odors that have the potential to be objectionable at or beyond the property boundary;
10. Insects;
11. Any corrective actions taken.

**B. Routine Monitoring**

When discharge to the land application area is occurring, the Discharger shall perform the following routine monitoring and loading calculations, and shall present the data in the Monthly and Annual Monitoring Reports.

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>	<u>Reporting Frequency</u>
Flow to Land Application Area <sup>1</sup>	gpd	Meter Reading	Monthly	Monthly, Annually
Hydraulic loading rate <sup>1</sup>	in.	Calculated	Monthly	Monthly, Annually
BOD <sub>5</sub> loading rate <sup>1</sup>	lb/ac.	Calculated <sup>2</sup>	Weekly	Monthly, Annually
Wastewater nitrogen loading rate <sup>1</sup>	lb/ac.	Calculated <sup>3</sup>	Monthly	Monthly, Annually
Nitrogen loading rate, other sources (fertilizer, etc.) <sup>1</sup>	lb/ac.	Calculated <sup>4</sup>	Monthly	Monthly, Annually
Total dissolved solids loading rate <sup>1</sup>	lb/ac.	Calculated <sup>3</sup>	Monthly	Monthly, Annually

<sup>1</sup> For each irrigation check

<sup>2</sup> BOD<sub>5</sub> shall be calculated using the weekly-applied volume of wastewater, actual application area, and the average of the three most recent BOD<sub>5</sub> results.

- <sup>3</sup> Total wastewater nitrogen and TDS loading rates shall be calculated using the applied volume of wastewater, actual application area, and the average of the three most recent effluent monitoring results.
- <sup>4</sup> Loading rates for supplemental nitrogen shall be calculated using the actual load and the application area.

## REPORTING

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g. collection pit, effluent), sampling location, and the 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.

### A. Monthly Monitoring Reports

Monthly reports shall be submitted to the Regional Board on the **1<sup>st</sup> day of the second month following sampling** (i.e., the January report is due by 1 March). Monthly Monitoring Reports shall be submitted regardless of whether there is any process wastewater generated. At a minimum, the reports shall include:

1. A statement indicating whether or not wastewater production and/or discharge to the land application area have occurred during the month.
2. If wastewater production and/or discharge has occurred during the month:
  - a.) The results of collection pit, effluent, and land application area monitoring. Data shall be presented in tabular format;
  - b.) A comparison of monitoring data to the discharge specifications and applicable limitations and an explanation of any violation of those requirements;
  - c.) When requested by staff, copies of laboratory analytical report(s);
  - d.) Calibration log(s) verifying calibration of any field monitoring instruments (e.g., DO, pH, and EC meters) used to obtain data;
  - e.) Monthly discharge volumes and loading rates (inches/acre/month) shall be calculated and reported;
  - f.) BOD<sub>5</sub> loading rates (lbs/acre/week) shall be calculated on a weekly basis using the total volume of wastewater applied for the week of application and a running average of the three most recent results of BOD<sub>5</sub> for the wastewater, which shall be reported along with supporting calculations;

- g.) Total nitrogen and TDS loading rates (lbs/acre/month) shall be calculated on a monthly basis using the total volume of wastewater applied for the month of application and the three most recent results of total nitrogen and TDS for the wastewater, which shall also be reported along with supporting calculations.
- h.) Nitrogen loading rates for other sources (i.e., fertilizers), if used, shall be calculated on a monthly basis using the applied load; and
- i.) Cumulative nitrogen and TDS loading rates for the calendar year to date shall be calculated as a running total of monthly loadings to date from all sources.

### **C. Annual Report**

An Annual Report shall be prepared as the December monthly monitoring report. The Annual Report shall include all monitoring data required in the monthly 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. Tabular summaries of historical monthly total loading rates for water (hydraulic loading in gallons and inches), total nitrogen, and total dissolved solids, and weekly loading rates for BOD;
2. A mass balance relative to constituents of concern and hydraulic loading along with supporting data and calculations. The report shall describe the types of crops planted and dates of planting and harvest for each crop;
3. A comprehensive evaluation of the effectiveness of the past year's wastewater application operation in terms of odor control, including consideration of application management practices (i.e.: waste constituent and hydraulic loadings, application cycles, drying times, and cropping practices);
4. A description of solids disposal practices, including a description of the solid waste produced by the prune processing operations, the quantity of solid waste generated, stored and/or disposed on site, and the quantity removed from the site, as well as the person(s) who removed the solids. Both on-site and off-site waste disposal or recycling areas shall be clearly identified. The volume applied to each area, the acreage of each area, and a name and contact information for each disposal facility shall be included.
5. A discussion of compliance and the corrective action taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the waste discharge requirements.
6. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.

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 2005.

Ordered by: \_\_\_\_\_  
THOMAS R. PINKOS, Executive Officer  
  
22 July 2005  
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JRM:9/13/2005