

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM __

FOR
SALAD COSMO U.S.A. CORPORATION
DIXON SPROUT FACILITY
SOLANO COUNTY

The Monitoring and Reporting Program (MRP) describes requirements for monitoring the wastewater storage ponds, wastewater treatment system influent and effluent, land application areas, and groundwater. 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.

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 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 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.

FLOW MONITORING

Wastewater flows shall be monitored as follows:

Parameter	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Wastewater flow to storage pond	gpd	Meter Reading ¹	Daily	Monthly
Flow to each LAA field	gpd	Calculation ²	Daily	Monthly

¹ Based on source water supply flow meter.

² Based on calibrated pump run time estimate.

WASTEWATER STORAGE POND MONITORING

The wastewater storage ponds shall be monitored in accordance with the following. Dissolved oxygen monitoring applies to any pond containing more than two feet of standing water.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
Freeboard	0.1 feet	Staff Gage	Weekly	Monthly
Dissolved Oxygen ¹	mg/L	Grab	Weekly	Monthly
Odors	--	Observation	Weekly	Monthly

¹ Samples shall be collected opposite the pond inlet.

WASTEWATER MONITORING

The wastewater shall be monitored in accordance with the following. Grab samples shall be representative of the wastewater storage pond effluent prior to land application. For example, grab samples taken near the 7-acre pond outlet are considered representative.

Constituent	Units	Type of Sample	Monitoring Frequency	Reporting Frequency
pH	--	Grab	Quarterly ¹	Monthly
BOD ₅	mg/L	Grab	Quarterly ¹	Monthly
Total Nitrogen	mg/L	Grab	Quarterly ¹	Monthly
Total Dissolved Solids	mg/L	Grab	Quarterly ¹	Monthly
Chloroform	µg/L	Grab	Quarterly ¹	Monthly

¹ Quarterly monitoring shall occur in months March, June, September, and December and results shall be reported in the monthly monitoring report for the month in which the samples were analyzed.

LAND APPLICATION AREA MONITORING

A. Daily Pre-Application Inspections

The Discharger shall inspect the land application areas at least **once daily** prior to and during irrigation events, and observations from those inspections shall be documented for inclusion in the monthly monitoring reports. The following items shall be documented for each check or field to be irrigated on that day:

- a. Evidence of erosion;
- b. Containment berm condition;
- c. Condition of each standpipe and flow control valve (if applicable);
- d. Proper use of valves;
- e. Soil saturation;
- f. Ponding;
- g. Tailwater ditches and potential runoff to off-site areas;
- h. Potential and actual discharge to surface water;
- i. Odors that have the potential to be objectionable at or beyond the property boundary; and
- j. Insects.

Temperature; wind direction and relative strength; and other relevant field conditions shall also be observed and recorded. The notations shall also document any corrective actions taken based on observations made. A copy of entries made in the log during each month shall be submitted as part of the Monthly Monitoring Report. If no irrigation with wastewater takes place during a given month, then the monthly monitoring report shall so state.

B. Routine Monitoring

The Discharger shall perform the following routine monitoring and loading calculations during all months when land application occurs, and shall present the data in the Monthly and Annual Monitoring Reports.

Constituent	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Precipitation	0.1 in.	Rain Gauge ¹	Daily	Monthly
LAAs and individual checks receiving wastewater	--	Observation	Daily	Monthly
Hydraulic loading rate to each LAA check				
Wastewater	gal. and in.	Calculated ²	Daily	Monthly
Nitrogen loading rate				
Wastewater	lb/ac	Calculated ^{2, 3}	Daily	Monthly
Other sources (fertilizer, etc.)	lb/ac	Calculated ^{2, 4}	Daily	Monthly

¹ Data obtained from the nearest National Weather Service rain gauge are acceptable.

² Rate shall be calculated for each irrigation check.

³ Total nitrogen loading rate shall be calculated using the applied volume of wastewater and actual application area using the specified method in Section D (Mass Loading Limitations) of the WDRs.

⁴ 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., effluent, groundwater), 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

Daily, weekly, and quarterly monitoring data shall be reported in monthly monitoring reports. Monthly reports shall be submitted to the Central Valley Water 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 flow, wastewater storage pond, wastewater, and land application area monitoring. The report shall include all results, including quarterly monitoring data. The report shall state if quarterly samples were not obtained that month. Data shall be presented in tabular format.
2. The average daily wastewater flow for the calendar month.
3. Calculations of the total nitrogen mass loading rate for the month and the calendar year to date.
4. A comparison of monitoring data to the requirements of the WDRs and an explanation of any violation of those requirements.
5. Copies of LAA inspection logs.
6. Copies of laboratory analytical report(s).
7. A calibration log verifying calibration of all hand-held monitoring instruments.

B. Annual Report

An Annual Monitoring Report shall be submitted to the Central Valley Water Board by **1 February** each year. The Annual Monitoring Report shall include the following:

1. Tabular summaries of monthly and annual totals for wastewater used for irrigation (hydraulic loading in gallons/acre and inches), and total nitrogen (lbs/ac/yr) for each LAA check .
2. A comprehensive evaluation of the effectiveness of the past year's wastewater application operation in terms of odor control and groundwater protection, including consideration of application management practices (e.g., waste constituent and hydraulic loadings, application cycles, drying times, and cropping practices).
3. A summary of the crops removed from each LAA and yields (tn/ac). The summary shall include planting and harvest dates and crop type, crop nitrogen demand, and crop evapotranspiration.
4. Estimated flows for the next calendar 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. A discussion of any data gaps and potential deficiencies/redundancies in the monitoring system or reporting program.

7. Equipment maintenance and calibration records, as described in Standard Provision No. C.4.

A letter transmitting the self-monitoring reports shall accompany each report. The 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 a statement by the Discharger, or the Discharger's authorized agent, under penalty of perjury, that to the best of the signer's knowledge the report is true, accurate and complete, as described in the Standard Provisions General Reporting Requirements Section B.3.

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

Ordered by: _____
PAMELA C. CREEDON, Executive Officer

(Date)