

**STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION**

DRAFT STAFF REPORT FOR REGULAR MEETING OF SEPTEMBER 25-26, 2014
Prepared on May 30, 2014

ITEM NUMBER:

SUBJECT: **Rescission of Waste Discharge Requirements for Dole Fresh Vegetables, Inc. (Order No. 94-36) and enrollment in the *General Waste Discharge Requirements for Discharges of Fruit and Vegetable Processing Waste* (Order No. R3-2004-0066)**

STAFF CONTACT: **Tom Kukol, 805/549-3689, tkukol@waterboards.ca.gov**

KEY INFORMATION

Discharger: Dole Fresh Vegetables, Inc.
Location: 32655 Camphora-Gloria Rd. Soledad, Monterey County
Discharge Type: Vegetable process water
Treatment: Screening and settling in an aerated pond
Disposal: None
Recycling: Applied to agricultural land
Existing Order: Individual WDR Order No. 94-36

This Action: **Rescind individual WDR (Order No. 94-36) and direct Executive Officer to enroll under general WDR (Order No. R3-2004-0066)**

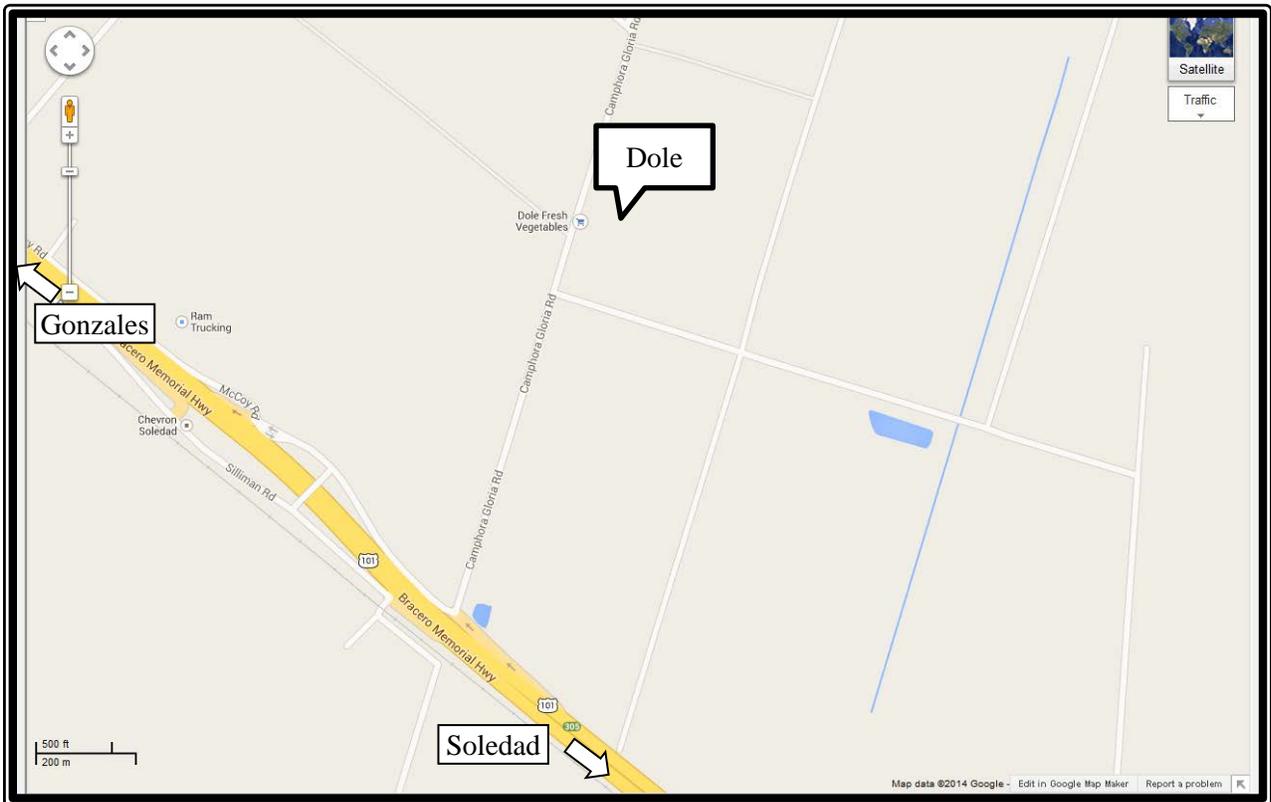
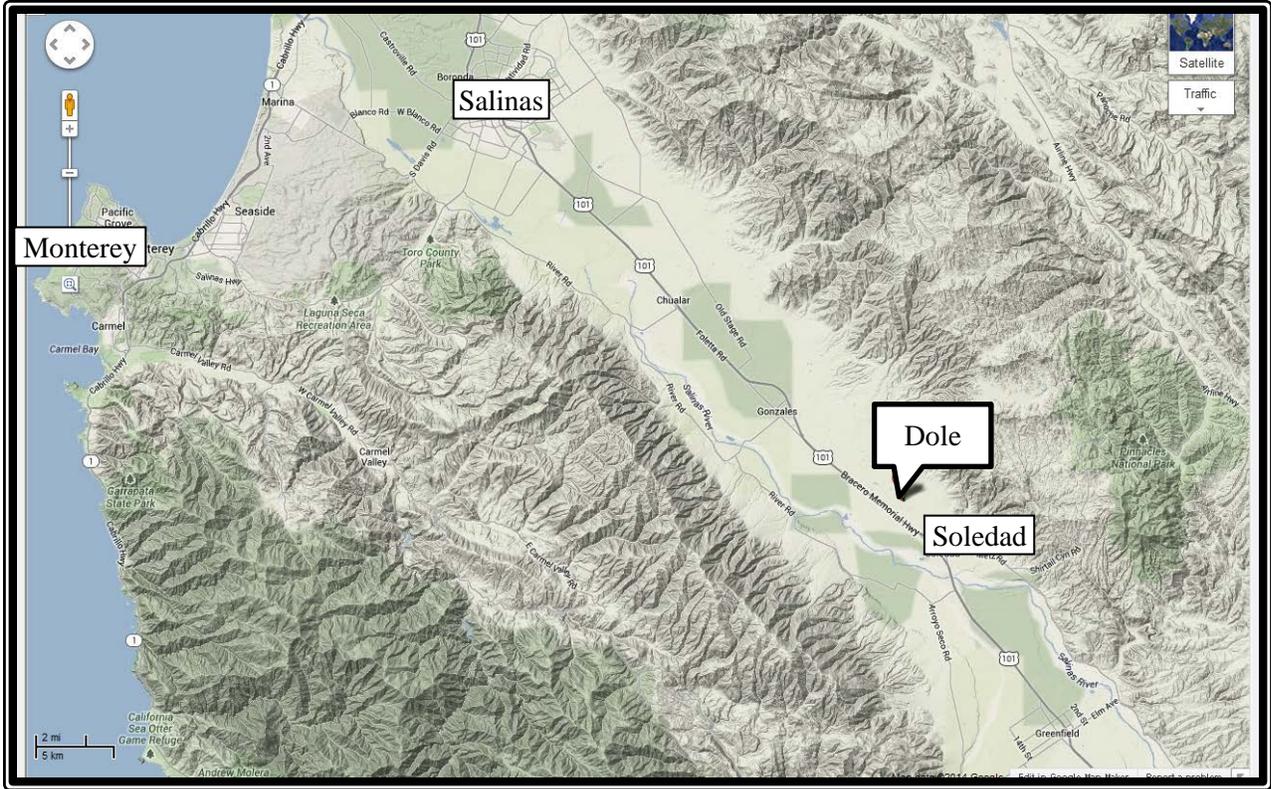
SUMMARY

Dole Fresh Vegetables, Inc. (or "Dole") processes leafy vegetables near Soledad. Dole's operation produces washwater that is recycled for surrounding agricultural needs. In 1994, the Water Board adopted individual waste discharge requirements (WDRs) to regulate the washwater recycling. Those WDRs are over twenty years old and are due to be reviewed. Due to Dole's stellar compliance record, the post-1994 emergence of general fruit and vegetable processing WDRs, and the Water Board's preference for regulating discharges under general WDRs, staff recommends rescinding Dole's individual WDRs in favor of regulating the discharge under the general fruit and vegetable processing WDRs. At Dole's request, and considering Dole's water quality history, staff's recommendation includes a reduction of the general fruit and vegetable processing WDRs' standard monitoring requirements.

DISCUSSION

Location

Dole Fresh Vegetables, Inc. (or "Dole") operates a leafy vegetable processing facility in Monterey County, near Soledad, at 32655 Camphora-Gloria Road, as shown in the following location maps:



Production Facility Description

About 650 mostly seasonal employees working three shifts (two production, one cleanup) process some 50 different vegetables into 200 “active” SKUs. Vegetables are typically harvested, transported, processed, packaged, and shipped within 36 hours. At the processing plant, vegetables are received in palletized harvest bins weighing 600 to 900 lbs. each, 20 bins per flatbed trailer. After weigh-in and physical inspection, vegetables are cooled to 35-38 °F in a conveyORIZED vacuum cooler to remove field heat. Forklifts designed to handle 20 bins at a time (10 pallets stacked two high) move entire flatbed loads from trucks to cooler, then, after cooling, into the raw-material warehouse, where smaller forklifts continuously supply trim-line hoppers with two bins at a time. Vegetables are conveyed down trim lines for visual inspection, cutting, drying, washing, and packing. Vegetables can move from bin to bag in 30 minutes. About 50 percent of all production is made to order; no finished goods are warehoused on-site. Most orders are shipped the same day the customer’s order is placed. The plant typically ships about 60,000 cases of finished products per day but has shipped as many as 90,000. Finished products are shipped about 40 miles to a former plant in Marina, now a distribution center.

Quality assurance (QA) incorporates Hazard Analysis and Critical Control Points (HACCP), with three shift supervisors and 22 technicians monitoring critical control points such as water temperatures, chlorine levels, plant temperatures, and metal detectors. The plant’s QA lab inspects incoming raw materials and samples finished products for specifications such as cut, size, package weight, shelf life, and mix ratio. QA technicians and product teams apply statistical process control (SPC) to tightening package fill-weight variances. Microbiological testing is conducted by an independent lab, and plant technicians use 3M Petrifilms for quick quantitative indications of bacterial growth on equipment surfaces.

Waste Streams

The Dole plant is designed to convert 285 million pounds of raw vegetables into 250 million pounds of finished products per year. Dole salads and pre-cut vegetables offer 100-percent usable product to the consumer, so about twelve percent of raw-vegetable weight—about 100,000 pounds per day—is removed as waste.

Dole currently generates approximately 35 million pounds of "cull material" from its vegetable processing. The cull material consists of lettuce trim including core, outer leaves, etc. The majority of the cull material is disposed of into trailers where it is used for various purposes including cattle feed. Very little goes into Dole’s waste stream.

Dole generates approximately 226 million gallons of waste washwater per year. Produce is washed with citric acid and chlorine solution for the purpose of disinfection and to maintain freshness. The plant operates year-round. Peak flow rate is 600 GPM or just over 1,000,000 GPD. Average flow rate is approximately 665,000 GPD. Chemicals added to water during process are gaseous chlorine, a stabilized chlorine solution using calcium carbonate as a stabilizing agent, sodium hypochlorite, and citric acid. Disinfectants used in process are gaseous chlorine and sodium hypochlorite. Sanitizers used in the plant are all chlorine based. Some cleaners used in the plant are acid-based cleaners.

The process wastewater is processed through an oxidation pond and then recycled for irrigation of alfalfa and other non-human consumption crops, as well as Dole’s landscaping. The quality of the pond’s effluent is adequate for crop production and landscape maintenance.

Dole’s sanitary wastewater goes to the City of Soledad’s sanitary sewer collection system.

Water Recycling

A farmer, currently Braga Ranch, leases Dole land and, per a lease agreement, must recycle Dole's process water for use on alfalfa or oat hay crops. The wastewater continues to be used for irrigation throughout the year. A field manager monitors the acreage to prevent saturation or ponding. As the wet season progresses, the irrigation is rotated to other acreage owned by Dole. Irrigation water is managed to preclude flow to surface water.

Regulatory Considerations

In April 1994, the Water Board adopted Order No. 94-36 imposing individual waste discharge requirements (WDRs) on the Dole Fresh Vegetables, Inc. discharge. In July 2004, the Water Board adopted Order No. R3-2004-0066 establishing general WDRs for discharges of fruit and vegetable processing waste. It is the Water Board's intent to eventually regulate nearly all fruit and vegetable processing operations under general WDRs. New operations are to be enrolled under the general WDRs. Existing discharges, once they reached maturity and required review, are to be rescinded in favor of general WDR enrollment. The Dole Fresh Vegetables, Inc. WDRs are one of the few remaining individual existing WDRs and are scheduled for review.

The Water Board uses the general order for fruit and vegetable processing waste to streamline permitting and provide consistency. Staff reviewed the Discharger's file and determined that the Dole Fresh Vegetables, Inc.'s process wastewater discharge meets the conditions for enrollment under the general WDRs. Rather than revise the existing order, staff recommends the Discharger be regulated by general WDRs.

The general order for fruit and vegetable processing waste implements applicable Water Board prohibitions, discharge specifications, management practices, and provisions to protect water quality. When the discharge is regulated by the general WDRs, the individual Waste Discharge Requirements will not be necessary, and, therefore, Water Board staff recommends that the Water Board rescind Order No. 94-36 (attached).

Normally, when an individual WDR is replaced by a general WDR, the general WDR's monitoring and reporting requirements are imposed. Dole pointed out that enrollment under the general WDRs would increase Dole's compliance costs, since the general WDRs' standard monitoring requirements are more stringent than Dole's existing monitoring requirements. The nature of Dole's discharge (vegetable washing wastewater with low solids) does not warrant the general WDR's standard level of monitoring.

The general WDRs allow the Executive Officer to modify or waive monitoring and reporting requirements. Staff worked with Dole to reduce the general WDRs' standard monitoring requirements to an appropriate level. For this proposed enrollment, staff proposes that the Water Board impose a reduced version of the general WDR's requirements on the Dole discharge, as shown in Attachment A to this staff report.

COMPLIANCE HISTORY

Over the last decade, Dole has been in substantial compliance with its WDRs. Staff's database of violations indicates that Dole has not had a violation in the past decade.

ENVIRONMENTAL SUMMARY

Waste discharge requirements for existing facilities are exempt from provisions of the California Environmental Quality Act (Public Resource Code, Section 21100 et seq.) in accordance with Section 15301, Chapter 3, Title 14 of the California Administrative Code.

COMMENTS

On June 6, 2014, Water Board staff used last known e-mail addresses and contact information in an attempt to notify the Discharger and known interested parties of its recommendation to rescind Waste Discharge Requirements Order No. 94-36 and approve enrollment of the Discharger under the General Waste Discharge Requirements for Discharges of Fruit and Vegetable Processing Waste (Order No. R3-2004-0066):

Terry Young, VP Engineering
Dole Fresh Vegetables, Inc.
terry.young@dole.com

Harry Qualls, Plant Engineer
Dole Fresh Vegetables, Inc.
harry.qualls@dole.com

Marian Balster, Consultant
Environmental Management Network
mbalster@aol.com

Richard LeWarne
Monterey County Environmental Health Division
Drinking Water Protection Services
lewarner@co.monterey.ca.us

Steve Shimek, Executive Director
Monterey Coastkeeper
steve@montereycoastkeeper.org

Also, on June 6, 2014, Water Board staff publicly posted its recommendation to rescind Waste Discharge Requirements Order No. 94-36 and approve enrollment of the Discharger under the General Waste Discharge Requirements for Discharges of Fruit and Vegetable Processing Waste (Order No. R3-2004-0066) on the Water Board's web site.

ATTACHMENTS

- ◆ Attachment A – Annotated version of Proposed Monitoring and Reporting Program
- ◆ Attachment B – Proposed Monitoring and Reporting Program (without annotations)
- ◆ Attachment C – Existing Order No. 94-36

TJK
126-01
S:\WDR\WDR Facilities\Monterey Co\Monterey Pacific Winery\2012 WDR Update\Staff Report - Rescind and Enroll.docx
CIWQS Place # 241323

Attachment A

ANNOTATED VERSION OF PROPOSED MONITORING AND REPORTING PROGRAM

[This document presents staff's proposed monitoring and reporting requirements. It is based on the standard monitoring and reporting requirements for dischargers enrolled under the *General Waste Discharge Requirements for Discharges of Fruit and Vegetable Processing Waste* (Order No. R3-2004-0066). This document includes annotations intended to show how the proposed monitoring and reporting requirements differ from 1) the standard Order No. R3-2004-0066 requirements, and 2) the discharger's existing requirements]

MONITORING AND REPORTING PROGRAM NO. R3-2004-0066

for

**DISCHARGES ENROLLED UNDER
GENERAL WASTE DISCHARGE REQUIREMENTS
FOR DISCHARGES OF FRUIT AND VEGETABLE PROCESSING WASTE
CENTRAL COAST REGION**

Dischargers regulated by the General WDRs for Discharges of Fruit and Vegetable Processing Waste are subject to the following monitoring and reporting requirements, unless such requirements are modified or waived by the Executive Officer. Additional requirements may be added by the Executive Officer, as needed to adequately ensure compliance with the General WDRs.

WATER SUPPLY MONITORING

Representative samples of the Facility's water supply shall be collected and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis
Total Dissolved Solids	mg/L	Grab	Annually (March)
Chloride	mg/L	Grab	"
Sodium	mg/L	Grab	"
Boron	mg/L	Grab	"
Sulfate	mg/L	Grab	"
Nitrate (as N)	mg/L	Grab	"

Staff proposes to eliminate Dole's current Electrical Conductivity monitoring since Total Dissolved Solids monitoring is a sufficient mineral content indicator.

New Boron monitoring would be required.

Dole currently monitors semi-annually. The General WDRs' standard frequency is annually.

PRODUCTION MONITORING

Production Monitoring would be new for Dole

Facility production shall be reported as follows:

Parameter	Units	Sample Type	Reporting Frequency
Start and End of Processing Season	Dates	--	Annually (December)
Fruits and Vegetables Processed	Tons/year	Measured	"

CHEMICAL USAGE MONITORING

Chemical Usage Monitoring would be new for Dole.

A summary of volumes and types of any chemicals used at the Facility shall be included with each monitoring report.

INFLUENT MONITORING

Representative samples of influent to the treatment system shall be collected and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis		
			Peak Wastewater Flow <50,000 gpd	Peak Wastewater Flow 50,000-500,000 gpd	Peak Wastewater Flow >500,000 gpd
Flow	gpd	Metered	Daily	Daily	Daily
Peak Daily Flow	gpd	Calculated	Monthly	Monthly	Monthly
Avg. Daily Flow	gpd	Calculated	Monthly	Monthly	Monthly
pH	pH units	Grab	Monthly	Weekly	Daily
Biochemical Oxygen Demand (BOD ₅) ¹	mg/L	Composite ₂	Annually ³	Semiannually ⁴	Quarterly ⁵
Nitrite (as N) ¹	mg/L	Composite	“	“	“
Nitrate (as N) ¹	mg/L	Composite	“	“	“
Total Kjeldahl Nitrogen (as N) ¹	mg/L	Composite	“	“	“
Total Nitrogen ¹	mg/L	Composite	“	“	“

Notes:

1. Influent sampling for BOD₅, nitrite, nitrate, TKN, and total nitrogen may not be required for facilities with low organic and nutrient load wastewater. The Discharger must submit sufficient documentation to support the removal of influent monitoring for BOD₅, nitrite, nitrate, TKN, and total nitrogen in its NOI; if documentation is not sufficient, the discharger may request removal of monitoring after one year of full compliance and monitoring reports support removal.
2. Composite samples will cover discharge through one day of operation. Facilities with peak wastewater flow less than 50,000 gpd may utilize grab samples rather than composite samples.
3. Annual influent monitoring shall occur in June.
4. Semiannual influent monitoring shall occur in March and September.
5. Quarterly influent monitoring shall occur in March, June, September, and December.

Dole is not currently required to perform influent monitoring. Staff does not recommend imposing influent monitoring on Dole. Influent monitoring is usually required when the effectiveness of a treatment system needs to be determined, such as when a POTW receives untreated sewage and is expected to reduce BOD. Dole's "influent" consists of relatively clean well water. Since Dole's influent is well water, the above Water Supply monitoring should be sufficient.

POND MONITORING

Pond Monitoring would be new for Dole

Representative samples of wastewater contained in each pond shall be collected and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis		
			Peak Wastewater Flow <50,000 gpd	Peak Wastewater Flow 50,000-500,000 gpd	Peak Wastewater Flow >500,000 gpd
Freeboard	ft	Measured	Monthly	Weekly	Daily Weekly
pH	pH units	Grab	"	"	"
Dissolved Oxygen	mg/L	Grab	"	"	"

Dole's flows exceed 500,000 gpd

Staff reduced the Gen WDR's standard daily sampling requirement to weekly sampling at Dole's request. Also, at Dole's request, if three months of weekly sampling indicate adequate DO, pH and freeboard, staff will revise frequency to quarterly.

If three months of weekly monitoring indicates no dissolved oxygen, pH or freeboard violations, staff proposes to reduce monitoring frequencies to quarterly.

SEPTIC SYSTEM MONITORING

Solids accumulation in all septic tanks shall be measured annually, prior to the processing season if applicable, and the tanks cleaned when it appears (a) the bottom of the scum (floating) layer will be within 4 inches of the bottom of the outlet device or (b) the sludge level will be within 10 inches of the outlet device before the next scheduled inspection; or submit annual verification of tank cleaning in lieu of measurements. The leachfield areas shall be inspected each week to evaluate adequate system operation and compliance with this Order. Leachfields should be alternated no less than annually to prevent clogging and surfacing effluent. Notations shall be made in a bound log book and include observations of sludge and scum levels and dates which leachfields are alternated. A summary of the entries made in the log shall be submitted with each monitoring report.

Not applicable, since Dole does not use a septic system.

EFFLUENT MONITORING

Representative samples of effluent from the treatment system, immediately prior to disposal, before the treated wastewater is blended with any other water source, shall be collected and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis		
			Peak Wastewater Flow <50,000 gpd	Peak Wastewater Flow 50,000-500,000 gpd	Peak Wastewater Flow >500,000 gpd
Flow	gpd	Metered	Daily	Daily	Daily
Peak Daily Flow	gpd	Calculated	Monthly	Monthly	Monthly
Avg. Daily Flow	gpd	Calculated	Monthly	Monthly	Monthly
pH	--	Grab	Monthly	Weekly	Daily-Quarterly
Biochemical Oxygen Demand (BOD ₅) ¹	mg/L	Composite ²	Semianually ³	Quarterly ⁴	Monthly-Quarterly
Fixed Dissolved Solids	mg/L	Composite	"	"	"
Chloride	mg/L	Composite	"	"	"
Sodium	mg/L	Composite	"	"	"
Boron	mg/L	Composite	"	"	"
Sulfate	mg/L	Composite	"	"	"
Nitrite (as N) ¹	mg/L	Composite	"	"	"
Nitrate (as N)	mg/L	Composite	"	"	"
Total Kjeldahl Nitrogen (as N) ¹	mg/L	Composite	"	"	"
Total Nitrogen ¹	mg/L	Composite	"	"	"
Priority Pollutants (Inorganics) ⁵	mg/L	Composite	Annually ⁶	Semianually ³	Quarterly ⁴
In addition to the above, facilities which use any form of chlorine for cleaning and/or disinfection shall analyze effluent samples for the following:					
Total Trihalomethanes ³	mg/L	Composite	Annually ⁶	Semianually ³	Quarterly ⁴
Total Haloacetic Acids ⁴	mg/L	Composite	"	"	"

Changes from current MRP:
 Peak Daily Flow added
 Avg. Daily Flow added
 BOD replaces COD
 FDS replaces EC
 TKN replaces Total N
 Priority Pollutants added
 TTHM and THAA added

Dole's flows exceed 500,000 gpd

Changes from Gen WDR's Standards:
 Dole requested quarterly grab samples for these highlighted constituents. Staff supports the request, since data indicates that the discharge quality is sufficiently consistent to warrant such sampling reductions.

Effluent Monitoring Notes:

- ~~1. Effluent sampling for BOD₅, nitrite, TKN, and total nitrogen may not be required for facilities with low organic and nutrient load wastewater. The Discharger must submit sufficient documentation to support the removal of effluent monitoring for BOD₅, nitrite, TKN, and total nitrogen in its NOI; if documentation is not sufficient, the discharger may request removal of monitoring after one year of full compliance and monitoring reports support removal.~~
- ~~2. Composite samples will cover discharge through one day of operation. Facilities with peak wastewater flow less than 50,000 gpd or have effluent discharge from a pond with greater than 10 days detention time may utilize grab samples rather than composite samples.~~
- ~~3. Semiannual effluent monitoring shall occur in March and September.~~
4. Quarterly effluent monitoring shall occur in March, June, September, and December.
5. Includes the following: antimony, arsenic, beryllium, cadmium, chromium III, chromium VI, copper, cyanide, lead, mercury, nickel, selenium, silver, thallium, zinc.
- ~~6. Annual effluent monitoring shall occur in June.~~
7. Includes the following: chloroform, bromodichloromethane, dibromochloromethane, and bromoform. If one year of quarterly monitoring indicates no THMs, staff proposes to reduce THM and HAA monitoring frequency to semiannually.
8. Includes the following: monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid. If one year of quarterly monitoring indicates no HAAs, staff proposes to reduce HAA monitoring frequency to semiannually.

DISPOSAL AREA MONITORING

The Discharger shall inspect and document the condition of fruit and vegetable processing wastewater disposal areas once daily during operation. Subsurface disposal areas should have a regular rotation to prevent clogging and surfacing of effluent. Notations shall be made in a bound log book and include observations of excessive ponding and soil clogging in spreading basins, evidence of erosion, field saturation, runoff, odors, insects, or other potential nuisance conditions that may be present. Any problems shall be promptly corrected. A record shall be kept of the dates and nature of observations and corrective actions taken. ~~A summary of the entries made in the log shall be submitted with each monitoring report.~~ The following information regarding irrigation management at the disposal area shall also be recorded daily and ~~submitted with each monitoring report~~ made available for inspection by Water Board staff:

- Inches of precipitation
- Irrigated areas
- Daily acreage applied (acres)
- Daily application rate (gal/acre/day)
- ~~• Total nitrogen loading rate as a monthly average (lbs/acre/day)~~
- ~~• BOD₅ loading rate as a monthly average (lbs/acre/day)~~

The above changes were made at Dole's request. Also, at Dole's request, if one year of quarterly monitoring indicates little or no THMs and HAAs, staff proposes to reduce THM and HAA monitoring frequency to semiannually.

DISPOSAL AREA SOILS MONITORING

The Discharger shall implement disposal area soils monitoring **if deemed necessary** by the Executive Officer. In general, large facilities that discharge concentrated wastewater that is not adequately neutralized (to between pH 6.5 and 8.4) to soils with poor buffering capacity must perform soils monitoring according to the following instructions. The Discharger shall establish a soil profile monitoring location that is representative of the disposal area. This sampling location shall be provided on a map submitted to the Regional Board for concurrence by the Executive Officer. Samples shall be collected and analyzed for the following constituents:

Constituent	Unit	Method	Sample Depths ²	Frequency
Soil pH	pH units	1:2 DI Water (soil to solution ratio)	6 inches and 2 ft.	Annually (September)
Total Acidity	meq H ⁺ / 100 g soil	Measured by BaCl ₂ – TEA (pH 8.3) ¹	6 inches and 2 ft.	Annually (September)

Notes:

1. See Methods of Soil Analysis (cosponsored by ASTM), American Society of Agronomy, Inc., Madison, WI.
2. Below base of disposal area.

Lime Application – If Soil pH is less than or equal to 6.0, the Discharger shall add lime to neutralize the disposal area soils. The amount of lime required for full neutralization is directly related to Total Acidity. For any representative sample of disposal area soils, multiply the Total Acidity value (meq of H⁺/ 100 g soil) by 2000 to get the maximum lime application rate in lbs. pure lime per acre. The amount of lime applied should not exceed the calculated value.

NOTE: Gypsum (CaSO₄*2H₂O) applied to increase hydraulic conductivity does not neutralize acidity (gypsum is a neutral salt).

Effluent from Dole's pond indicates a neutral wastewater.

SOLID WASTE DISPOSAL MONITORING

Solid waste disposal monitoring would be new for Dole.

A summary of estimated volumes and disposal locations of screenings, sludge, and solids shall be included with each monitoring report.

GROUNDWATER MONITORING

Groundwater monitoring would be new for Dole. Requiring groundwater monitoring is consistent with groundwater monitoring requirements for many other fruit and vegetable processing dischargers. Dole has one of the highest effluent flow rates of any fruit and vegetable processing facility in our region. Also, Dole discharges onto the Salinas Valley floor over relatively shallow groundwater.

At Dole's request, this monitoring requirement gives Dole time to develop a groundwater monitoring program. Once Dole submits an acceptable groundwater monitoring program, staff proposes to revise this monitoring program accordingly.

The Discharger shall ~~implement~~ submit a groundwater monitoring proposal by December 01, 2014, ~~if deemed necessary~~ by the Executive Officer. In general, facilities which discharge fruit and vegetable processing waste that is not adequately treated (biologically stabilized and neutralized) to unlined ponds, leach fields, or spreading basins, or in areas where depth to groundwater is shallow, may be required to perform regular groundwater monitoring. Groundwater samples shall be collected from at least three representative monitoring wells, one upgradient and two downgradient of the disposal area, and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis
Depth to groundwater	Feet	Measured	Quarterly (March, June, September, and December)
pH	pH units	Grab	Quarterly (March, June, September, and December)
Total Dissolved Solids	mg/L	Grab	Quarterly (March, June, September, and December)
Chloride	mg/L	Grab	Quarterly (March, June, September, and December)
Sodium	mg/L	Grab	Quarterly (March, June, September, and December)
Boron	mg/L	Grab	Quarterly (March, June, September, and December)
Sulfate	mg/L	Grab	Quarterly (March, June, September, and December)
Nitrate (as N)	mg/L	Grab	Quarterly (March, June, September, and December)
Chemical Oxygen Demand	mg/L	Grab	Quarterly (March, June, September, and December)

SAMPLING AND ANALYSIS PROVISIONS

1. All sampling, sample preservation, and analysis shall be performed in accordance with the latest edition of 40 CFR Part 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants". The Executive Officer may specify test methods that are more sensitive than those specified in 40 CFR Part 136.
2. Periodic samples shall be taken at regular intervals and be representative of the monitored activity. For example, where quarterly samples are required, samples shall be collected on a representative day of March, June, September, and December of each year.
3. All analytical services shall be conducted at a laboratory certified for such analyses by the State Department of Health, or at a laboratory approved by the Executive Officer.
4. All analytical data shall be reported with method detection limits (MDLs) and with identification of either practical quantitation levels (PQLs) or limits of quantitation (LOQs).
5. All monitoring instruments and devices used by the discharger to fulfill this Monitoring and Reporting Program shall be properly maintained and calibrated, as necessary to ensure their continued accuracy.

REPORTING PROVISIONS

1. Monitoring reports shall be submitted to the Regional Board semiannually, **by January 30th and July 30th of each year**. Monitoring reports shall contain all monitoring data obtained during the previous six months (eg., monitoring reports due July 30th shall include sampling events occurring from January through June). The report shall discuss the compliance record and corrective actions taken, or which may be needed, to bring the discharge into full compliance with the General WDRs. Monitoring reports may be required more frequently as deemed necessary by the Executive Officer, based on review of the NOI and site and facility specific information.
2. Monitoring data shall be arranged in tabular format so that the date, constituents, and concentrations are readily discernible. The data shall be summarized in such a manner to clearly illustrate whether the discharge complies with effluent limitations.

3. The Discharger shall also submit monitoring data and the monitoring reports electronically upon request. Electronic data should be formatted into a Microsoft Excel or equivalent spreadsheet. Electronic report templates are available by contacting Regional Board staff at (805) 549-3147. Electronic submittal should be provided on either 3.5-inch disk or optical compact disk. Electronic data storage media should be labeled with facility name and period of monitoring.
4. If the Discharger monitors any pollutant or parameter more frequently than is required by this monitoring program, the results of such monitoring shall be included in the monitoring reports (i.e., quarterly groundwater elevation, etc.).
5. All monitoring reports shall be signed and certified in accordance with Section E.10 and 11 of the General WDRs.
6. The Discharger shall deliver a copy of each monitoring report in the appropriate format to the Central Coast Regional Water Quality Control Board at the following address:

895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

7. The Discharger shall ensure that records of all monitoring information are maintained and accessible for a period of at least five years from the date of the sample. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or by the request of the Executive Officer. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling, and/or measurements;
 - c. The date(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used;
 - f. All sampling and analytical results;
 - g. All monitoring equipment calibration and maintenance records.
8. The Discharger shall immediately report any non-compliance potentially endangering public health or the environment to the Regional Board (805/549-3147) and any additional appropriate agency. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written report shall also be submitted to the Executive Officer within five (5) days of the time the Discharger becomes aware of the circumstances. The written report shall contain (1) a description of the non-compliance and its cause; (2) the period of non-compliance, including dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and (3) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.
9. The Discharger shall report all instances of non-compliance not reported under Reporting Provision No. 8 at the time monitoring reports are submitted along with the information required in Reporting Provision No.8.

Ordered By _____

Kenneth A. Harris, Jr.
Executive Officer

Date

Attachment B

PROPOSED MONITORING AND REPORTING PROGRAM

[This document is similar to the document in Attachment A, except that extraneous annotations have been removed. This document represents staff's recommended monitoring and reporting program for the discharger]

Attachment B

MONITORING AND REPORTING PROGRAM NO. R3-2004-0066

for

DISCHARGES ENROLLED UNDER GENERAL WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF FRUIT AND VEGETABLE PROCESSING WASTE CENTRAL COAST REGION

Dischargers regulated by the General WDRs for Discharges of Fruit and Vegetable Processing Waste are subject to the following monitoring and reporting requirements, unless such requirements are modified or waived by the Executive Officer. Additional requirements may be added by the Executive Officer, as needed to adequately ensure compliance with the General WDRs.

WATER SUPPLY MONITORING

Representative samples of the Facility's water supply shall be collected and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis
Total Dissolved Solids	mg/L	Grab	Annually (March)
Chloride	mg/L	Grab	"
Sodium	mg/L	Grab	"
Boron	mg/L	Grab	"
Sulfate	mg/L	Grab	"
Nitrate (as N)	mg/L	Grab	"

PRODUCTION MONITORING

Facility production shall be reported as follows:

Parameter	Units	Sample Type	Reporting Frequency
Start and End of Processing Season	Dates	--	Annually (December)
Fruits and Vegetables Processed	Tons/year	Measured	"

CHEMICAL USAGE MONITORING

A summary of volumes and types of any chemicals used at the Facility shall be included with each monitoring report.

POND MONITORING

Representative samples of wastewater contained in each pond shall be collected and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis
Freeboard	ft	Measured	Weekly
pH	pH units	Grab	"
Dissolved Oxygen	mg/L	Grab	"

If three months of weekly monitoring indicates no dissolved oxygen, pH or freeboard violations, staff proposes to reduce monitoring frequencies to quarterly.

Attachment B

EFFLUENT MONITORING

Representative samples of effluent from the treatment system, immediately prior to disposal, before the treated wastewater is blended with any other water source, shall be collected and analyzed as follows:

Constituent	Units	Sample Type	Minimum Frequency of Sampling and Analysis
Flow	gpd	Metered	Daily
Peak Daily Flow	gpd	Calculated	Monthly
Avg. Daily Flow	gpd	Calculated	Monthly
pH	--	Grab	Quarterly ¹
Biochemical Oxygen Demand (BOD ₅)	mg/L	"	Quarterly
Fixed Dissolved Solids	mg/L	"	"
Chloride	mg/L	"	"
Sodium	mg/L	"	"
Boron	mg/L	"	"
Sulfate	mg/L	"	"
Nitrite (as N)	mg/L	"	"
Nitrate (as N)	mg/L	"	"
Total Kjeldahl Nitrogen (as N)	mg/L	"	"
Total Nitrogen	mg/L	"	"
Priority Pollutants (Inorganics) ²	mg/L	"	"
Total Trihalomethanes ³	mg/L	"	"
Total Haloacetic Acids ⁴	mg/L	"	"

Effluent Monitoring Notes:

1. Quarterly effluent monitoring shall occur in March, June, September, and December.
2. Includes the following: antimony, arsenic, beryllium, cadmium, chromium III, chromium VI, copper, cyanide, lead, mercury, nickel, selenium, silver, thallium, zinc.
3. Includes the following: chloroform, bromodichloromethane, dibromochloromethane, and bromoform. If one year of quarterly monitoring indicates no THMs, staff proposes to reduce THM and HAA monitoring frequency to semi-annually.
4. Includes the following: monochloroacetic acid, dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid. If one year of quarterly monitoring indicates no HAAs, staff proposes to reduce HAA monitoring frequency to semi-annually.

DISPOSAL AREA MONITORING

The Discharger shall inspect and document the condition of fruit and vegetable processing wastewater disposal areas once daily during operation. Subsurface disposal areas should have a regular rotation to prevent clogging and surfacing of effluent. Notations shall be made in a bound log book and include observations of excessive ponding and soil clogging in spreading basins, evidence of erosion, field saturation, runoff, odors, insects, or other potential nuisance conditions that may be present. Any problems shall be promptly corrected. A record shall be kept of the dates and nature of observations and corrective actions taken. The following information regarding irrigation management at the disposal area shall also be recorded daily made available for inspection by Water Board staff:

- Inches of precipitation.
- Irrigated areas.
- Daily acreage applied (acres).
- Daily application rate (gal/acre/day)

Attachment B

SOLID WASTE DISPOSAL MONITORING

A summary of estimated volumes and disposal locations of screenings, sludge, and solids shall be included with each monitoring report.

GROUNDWATER MONITORING

The Discharger shall submit a groundwater monitoring proposal by December 01, 2014.

SAMPLING AND ANALYSIS PROVISIONS

1. All sampling, sample preservation, and analysis shall be performed in accordance with the latest edition of 40 CFR Part 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants". The Executive Officer may specify test methods that are more sensitive than those specified in 40 CFR Part 136.
2. Periodic samples shall be taken at regular intervals and be representative of the monitored activity. For example, where quarterly samples are required, samples shall be collected on a representative day of March, June, September, and December of each year.
3. All analytical services shall be conducted at a laboratory certified for such analyses by the State Department of Health, or at a laboratory approved by the Executive Officer.
4. All analytical data shall be reported with method detection limits (MDLs) and with identification of either practical quantitation levels (PQLs) or limits of quantitation (LOQs).
5. All monitoring instruments and devices used by the discharger to fulfill this Monitoring and Reporting Program shall be properly maintained and calibrated, as necessary to ensure their continued accuracy.

REPORTING PROVISIONS

1. Monitoring reports shall be submitted to the Regional Board semiannually, **by January 30th and July 30th of each year**. Monitoring reports shall contain all monitoring data obtained during the previous six months (eg., monitoring reports due July 30th shall include sampling events occurring from January through June). The report shall discuss the compliance record and corrective actions taken, or which may be needed, to bring the discharge into full compliance with the General WDRs. Monitoring reports may be required more frequently as deemed necessary by the Executive Officer, based on review of the NOI and site and facility specific information.
2. Monitoring data shall be arranged in tabular format so that the date, constituents, and concentrations are readily discernible. The data shall be summarized in such a manner to clearly illustrate whether the discharge complies with effluent limitations.
3. The Discharger shall also submit monitoring data and the monitoring reports electronically upon request. Electronic data should be formatted into a Microsoft Excel or equivalent spreadsheet. Electronic report templates are available by contacting Regional Board staff at (805) 549-3147. Electronic submittal should be provided on either 3.5-inch disk or optical compact disk. Electronic data storage media should be labeled with facility name and period of monitoring.
4. If the Discharger monitors any pollutant or parameter more frequently than is required by this monitoring program, the results of such monitoring shall be included in the monitoring reports (i.e., quarterly groundwater elevation, etc.).

Attachment B

- 5. All monitoring reports shall be signed and certified in accordance with Section E.10 and 11 of the General WDRs.
- 6. The Discharger shall deliver a copy of each monitoring report in the appropriate format to the Central Coast Regional Water Quality Control Board at the following address:

895 Aerovista Place, Suite 101
San Luis Obispo, CA 93401

- 7. The Discharger shall ensure that records of all monitoring information are maintained and accessible for a period of at least five years from the date of the sample. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or by the request of the Executive Officer. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling, and/or measurements;
 - c. The date(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used;
 - f. All sampling and analytical results;
 - g. All monitoring equipment calibration and maintenance records.
- 8. The Discharger shall immediately report any non-compliance potentially endangering public health or the environment to the Regional Board (805/549-3147) and any additional appropriate agency. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written report shall also be submitted to the Executive Officer within five (5) days of the time the Discharger becomes aware of the circumstances. The written report shall contain (1) a description of the non-compliance and its cause; (2) the period of non-compliance, including dates and times, and if the non-compliance has not been corrected, the anticipated time it is expected to continue; and (3) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the non-compliance.
- 9. The Discharger shall report all instances of non-compliance not reported under Reporting Provision No. 8 at the time monitoring reports are submitted along with the information required in Reporting Provision No.8.

Ordered By _____
Kenneth A. Harris Jr.
Executive Officer

Date

Attachment C

ORDER NO. 94-36

Attachment C

ID# 3-272122001

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5427

ORDER NO. 94-36

WASTE DISCHARGE REQUIREMENTS
FOR
DOLE FRESH VEGETABLES, INC.
MONTEREY COUNTY

The California Regional Water Quality Control Board, Central Coast Region (hereafter Board), finds:

1. Gary J. Bettencourt filed a Report of Waste Discharge on December 24, 1993 in accordance with Section 13260 of the California Water Code. The report was filed on behalf of Dole Fresh Vegetables, Inc. for authorization to discharge vegetable process water within the Salinas Hydrologic unit, lower forebay. The information supports a request for issuance of Waste Discharge Requirements.
2. Dole Fresh Vegetables Inc. (hereafter Discharger), operates a wastewater treatment and disposal system located at 32655 Camphora-Gloria Road, Soledad California. The facilities are as shown on Attachment "A" of this Order.
3. Domestic wastewater generated by Dole Fresh Vegetables, Inc. will be conveyed to and treated by the City of Soledad's wastewater treatment facility.
4. An weekly average of 0.600 million gallons per day (2270 m³/day) of industrial wastewater will be treated and discharged at this facility, however the wastewater treatment and disposal system has a design capacity of 1.0 MGD Treatment will consist of screening and aeration. Reclaimed water will be used to irrigate alfalfa, kale, and turfgrass on property controlled by the Discharger. Peak daily

flow will be 1 million gallons per day when plant is operating at full capacity.

5. The discharge area is located on slightly sloped topography consisting of gravelly, sandy loam(silt) soils to a depth of 80 inches. Depth to ground water is approximately 42 feet. Ground water samples taken from water supply wells on the property indicate the following water quality:

Total Dissolved Solids	542 mg/l
Sodium	46 mg/l
Chloride	53 mg/l
Nitrate (as N)	1.5 mg/l
Sulfate	160 mg/l
pH	7.0 std
6. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan) was adopted by the Board on November 17, 1989. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters.
7. Present and anticipated beneficial uses of groundwater in the vicinity of the discharge include Domestic and Municipal Supply, Industrial Supply, and Agricultural Supply.
8. Denise Duffy and Associates has completed an Initial Study and Negative Declaration for the project in accordance with the California Environmental Quality

Attachment C

WDR Order No. 94-36

-2-

Act (Public Resources Code, Section 21000, et seq.) and the California Code of Regulations. The Negative Declaration was certified by Monterey County on July 8, 1993. Mitigation measures to prevent nuisance and assure protection of beneficial uses of surface and ground waters will be implemented through this Order.

9. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.
10. On February 18, 1994, the Board notified the Discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with a copy of the proposed order and an opportunity to submit written views and comments.
11. After considering all comments pertaining to this discharge during a public hearing on April 8, 1994, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, Dole Fresh Vegetables Inc., its agents, successors, and assigns, may discharge waste at its Soledad Facility, 32655 Camphora Gloria Road, Soledad, CA 93960, providing compliance is maintained with the following:

(Note: other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January 1984.

Applicable paragraphs are referenced in paragraph D.2. of this Order.)

Requirements specified in the proposed Orders are based on staff's professional judgement and the following documents:

A = Administrative Procedures Manual
(SWRCB)
B = Basin Plan

Throughout the proposed Orders and Monitoring and Reporting Programs footnotes are included to indicate the source of specified requirements. Requirements not referenced are based on professional judgement.

A. PROHIBITIONS

1. Discharge to areas other than disposal areas shown in Attachment "B", is prohibited.
2. Discharge of any wastes including overflow, bypass, and seepage from transport, treatment, or disposal systems to adjacent drainageways or adjacent properties is prohibited.
3. Bypass of the treatment facility and discharge of untreated or partially treated wastes directly to irrigation fields is prohibited.
4. Discharge of any wastes other than vegetable process water to the vegetable process wastewater system is prohibited.

B. DISCHARGE SPECIFICATIONS

1. Daily flow averaged over each month shall not exceed 1.0 MGD (3785 m³).
2. Effluent discharged to irrigation field areas shall not exceed the following limitations:^B

Attachment C

WDR Order No. 94-36

- 3 -

<u>Parameter</u>	<u>Units</u>	<u>Maximum</u>
Total Dissolved Solids	mg/l	Water Supply +250*
Sodium Chloride	mg/l	Water Supply + 60*
Sulfate	mg/l	Water Supply +110*
Nitrate (as N)	mg/l	500
		8

* As determined from concurrent water supply monitoring and averaged over the three most recent samples.

- | | |
|--|---|
| <p>3. Effluent discharged to disposal areas shall not have a pH less than 6.5 or greater than 8.4.^B</p> <p>4. Freeboard shall exceed 1 foot in the aeration pond.</p> <p>5. Reclaimed water shall be applied at a rate and volume not to exceed vegetative demand and soil moisture holding conditions. Special precautions must be taken to prevent clogging of spray nozzles, over watering and ponding, and to minimize runoff. Pipelines shall be maintained to prevent leaks.</p> <p>6. Reclaimed water shall not be used for irrigation during periods of extended rainfall and/or runoff.</p> <p>C. GROUND WATER LIMITATIONS</p> <p>1. The discharge shall not cause an increase of nitrate concentrations in underlying ground waters, based on a comparison of samples collected from monitoring wells located upgradient and downgradient of the irrigated field.</p> <p>2. The discharge shall not cause a significant increase of mineral constituent concentrations in underlying ground waters, based on a comparison of samples collected from wells located upgradient and downgradient of the irrigation field.^B</p> | <p>3. The discharge shall not cause concentrations of chemicals and radionuclides in groundwater to exceed limits set forth in Title 22, Chapter 15, Articles 4, 4.5, 5 and 5.5 of the California Code of Regulations.^B</p> <p>D. PROVISIONS</p> <p>1. Discharger shall comply with "Monitoring and Reporting Program No. 94-36," as specified by the Executive Officer.^A</p> <p>2. Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984, except A.1.-6., A.8., A.9., A.10., A.14., A.15., A.17., A.24., and A.25.^A</p> <p>3. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Executive Officer not later than November 1, 1998 addressing:^A</p> <p style="margin-left: 20px;">a. Whether there will be changes in the continuity, character, location, or volume of the discharge; and,</p> <p style="margin-left: 20px;">b. Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.</p> |
|--|---|

Attachment C

WDR Order No. 94-36

- 4 -

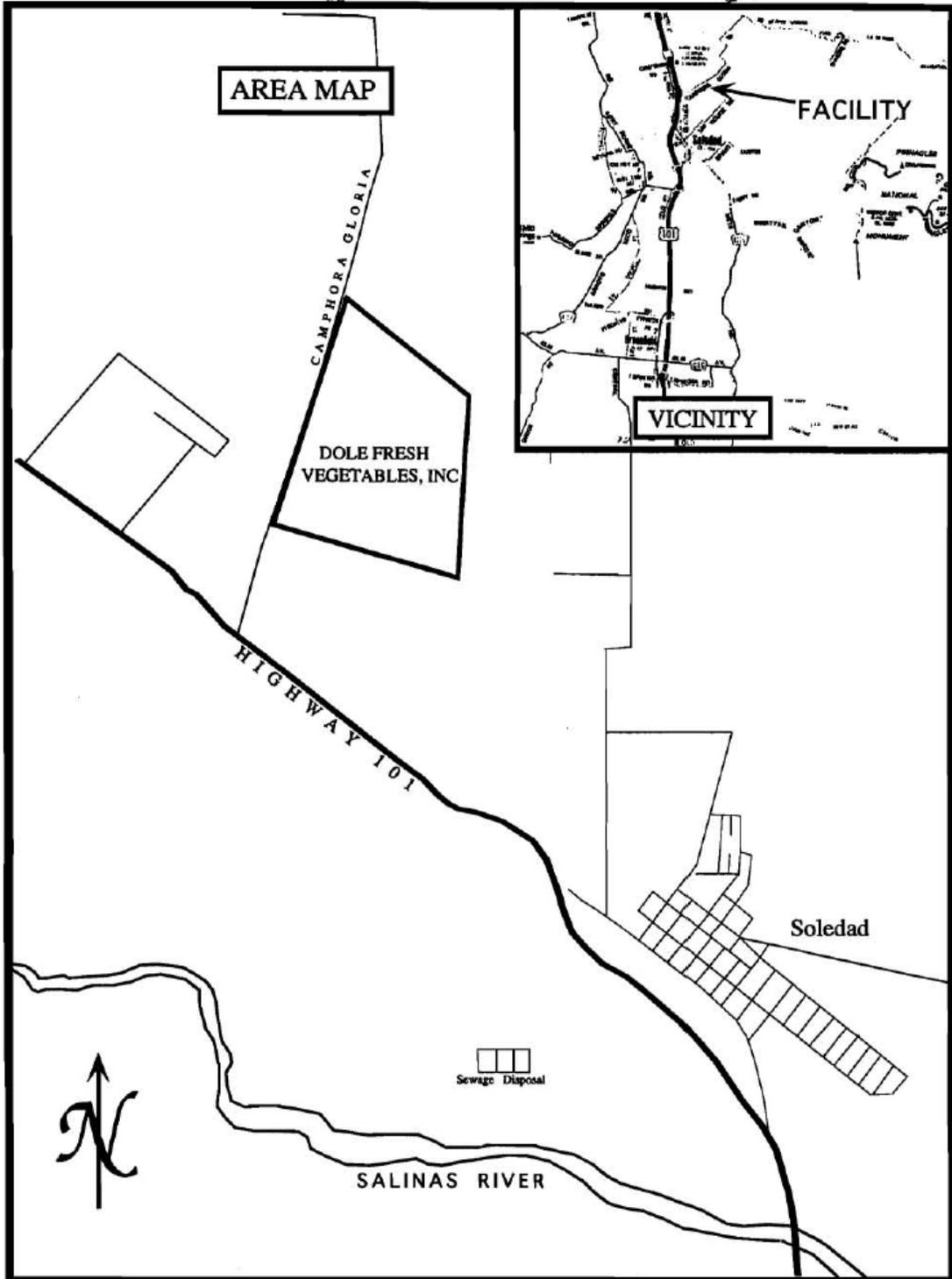
I, **ROGER W. BRIGGS, Executive Officer**, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Coast Region, on April 8, 1994.



EXECUTIVE OFFICER

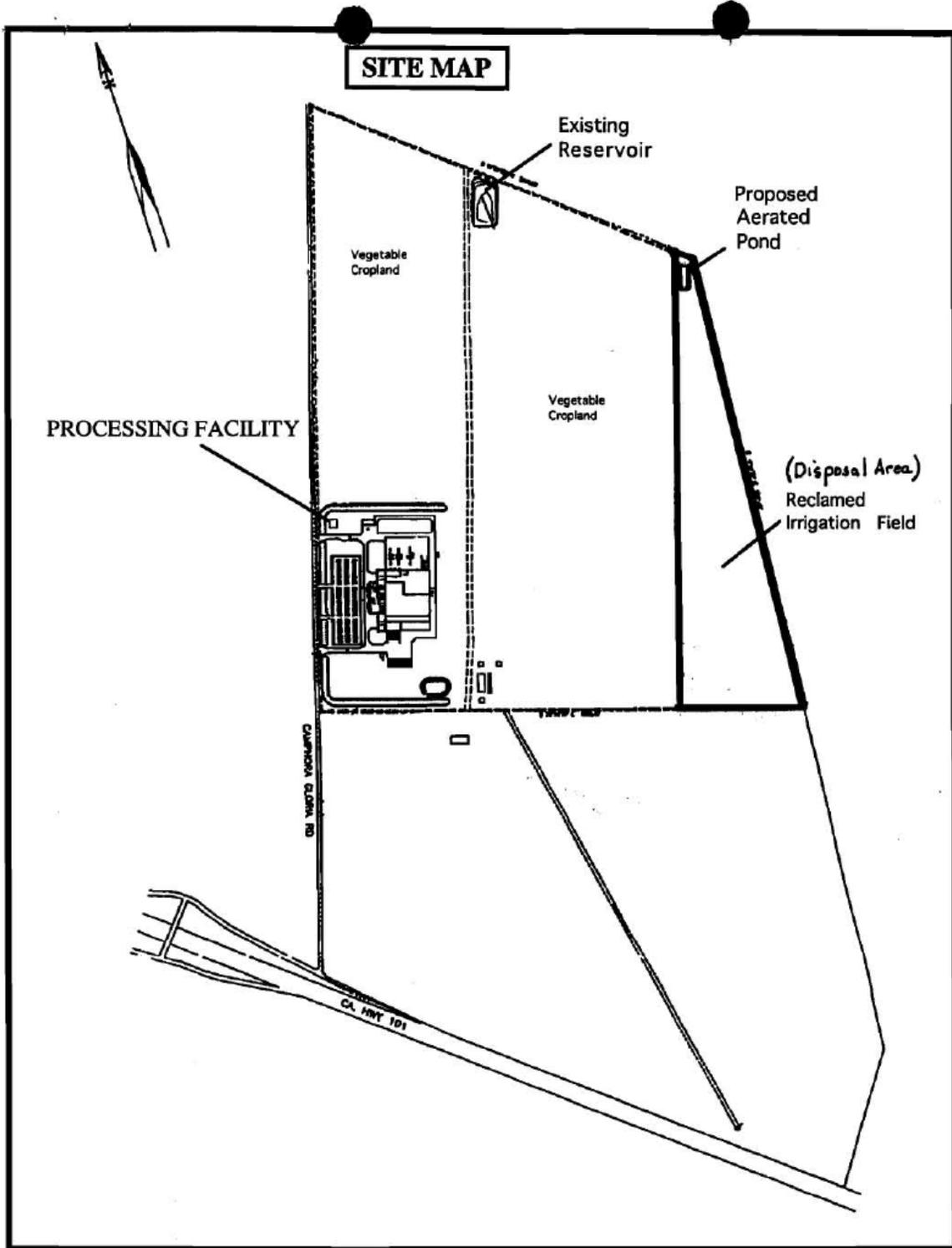
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Attachment C



ATTACHMENT "A"

Attachment C



ATTACHMENT "B"

Attachment C



Cal/EPA

Central Coast
Regional Water
Quality Control
Board

81 Higuera Street
Suite 200
San Luis Obispo, CA
93401-5427
(805) 549-3147
FAX (805) 543-0397

February 5, 1998

Mr. Ron Midyett
Dole Fresh Vegetables
P.O. Box 1759
Salinas, CA 93902

Dear Mr. Midyett:

REVISION OF MONITORING AND REPORTING PROGRAM, ORDER NO. 94-36

Your response to our Notice of Violation for not submitting monitoring as specified in Waste Discharge Requirement Monitoring and Reporting Program No. 94-36, indicated verbal permission from Mr. Hurford had been granted allowing you to switch from monthly to quarterly monitoring. Although our files failed to reveal written documentation of this, Order No. 94-36 included a provision which allowed the monitoring frequency to be reduced if satisfactory compliance was noted.

Attached is a revised monitoring program which formally documents the reduction in monitoring frequency. Please note the supply water sampling has been reduced from monthly to semi-annual sampling. The effluent is now required to be sampled quarterly.

If you have any questions, please call Ron Sherer at (805) 549-3688.

Sincerely,


For Roger W. Briggs
Executive Officer

RSW\ARON_WDR\MONTEREY\DOLE.LTR\ch
Task: 121:01
File: Main: Dole Fresh Vegetables, Soledad

Attachment



Pete Wilson
Governor



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Our mission is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.

Attachment C

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5427**

**MONITORING AND REPORTING PROGRAM NO. 94-36
WDID No. 3 272122001**

FOR

**DOLE FRESH VEGETABLES, INC.,
MONTEREY COUNTY
(Adopted April 8, 1994)
(Revised February 5, 1998)**

WATER SUPPLY MONITORING

Representative samples of the water supply shall be collected from the on-site well and analyzed as follows:

Constituent	Units	Sample Type	Minimum Sampling and Analyzing Frequency*
Total Dissolved Solids	mg/l	Grab	Semi- annual (Apr and Oct)
Electrical Conductivity	μ mhos/cm	Grab	Semi- annual (Apr and Oct)
Chloride	mg/l	Grab	Semi- annual (Apr and Oct)
Sulfate	mg/l	Grab	Semi- annual (Apr and Oct)
Nitrate	mg/l	Grab	Semi- annual (Apr and Oct)
Sodium	mg/l	Grab	Semi- annual (Apr and Oct)

*Water supply sampling shall be taken concurrently with effluent sampling.

EFFLUENT MONITORING

Representative samples of the effluent discharged to the irrigation field shall be collected and analyzed for the following constituents:

Attachment C

M&RP No. 94-36

-2-

Constituent	Units	Type	Minimum Sampling and Analyzing Frequency
Flow	MGD	Metered	Daily
pH	pH	Grab	Quarterly (Jan, Apr, July, Oct)
Chemical Oxygen Demand	mg/l	Grab	Quarterly (Jan, Apr, July, Oct)
"Total" Nitrogen(as N)	mg/l	Grab	Quarterly (Jan, Apr, July, Oct)
Sodium	mg/l	Grab	Quarterly (Jan, Apr, July, Oct)
Chloride	mg/l	Grab	Quarterly (Jan, Apr, July, Oct)
Electrical Conductivity	µmhos/cm	Grab	Quarterly (Jan, Apr, July, Oct)
Total Dissolved Solids	mg/l	Grab	Quarterly (Jan, Apr, July, Oct)
Sulfate	mg/l	Grab	Quarterly (Jan, Apr, July, Oct)
Nitrate	mg/l	Grab	Quarterly (Jan, Apr, July, Oct)

GROUND WATER MONITORING

Discharger shall install or locate monitoring wells upgradient and downgradient of the disposal area if directed to do by the Regional Board. Discharger shall be responsible for determining direction of groundwater flow and level to determine the appropriate location and depth of upgradient and downgradient monitoring wells. Prior to the installation of monitoring wells, Discharger must submit to the Executive officer (EO) a report discussing the proposed location and depth of the monitoring wells and the technical justification of the proposal. The monitoring wells shall meet or exceed well standards contained in the Department of Water Resources Bulletins 74-81 and 74-90. Discharger shall also comply with the monitoring well reporting provisions of Section 13750 through 13755 of the California Water Code.

Monitoring wells are intended to monitor effects of the discharge on ground water. However, installation of monitoring wells may be waived if Discharger can demonstrate that there are mitigating factors such that the discharge will not adversely impact ground water quality. A report discussing results of studies or investigations justifying presence of mitigating factors may be submitted to the Executive Officer for review and approval. If the Executive Officer agrees with the findings of the report, monitoring wells requirement may be waived. These mitigating factors may include, but not be limited to, any or all of the following:

1. Depth to ground water is so great that when coupled with other factors may prevent pollutants from reaching or adversely affecting ground water quality.
2. Geologic features i.e. soil type, permeability, presence of geological layer prohibiting migration of pollutants to ground water, etc.

Attachment C

M&RP No. 94-36

-3-

3. Ground water has sufficient assimilative capacity due to the magnitude of the aquifer.

RECLAMATION AREA MONITORING

The disposal area shall be inspected weekly for saturated surface areas, surface runoff, and odors. Evidence of any condition of this nature shall be reported to the Executive Officer within 24 hours of knowing of such conditions, and promptly investigated and remedied. A record shall be kept of dates and nature of observations and remedies. A summary of inspections shall be submitted with each quarterly and annual monitoring report.

REPORTING

In reporting the monitoring data, the discharger shall arrange the data in tabular form so the date, the constituents, and the concentrations are readily discernible. Reports shall be submitted quarterly by the 20th day of month (March, June, September, and December) and shall contain all data collected over the previous quarter. It shall contain a narrative summary of any exceptions pursuant to Reclamation Area Monitoring described above.

Ordered by

Bradley E. Hegeman
Executive Officer

2/5/98

Date

RHS/dole/mrp.revision\ch\h\letters