CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

MONITORING AND REPORTING PROGRAM R5-2020-0032

FOR
GERAWAN FARMING, INC.
PLANT 3 KERMAN FRUIT PACKING FACILITY
FRESNO COUNTY

This Monitoring and Reporting Program (MRP) is issued pursuant to California Water Code section 13267. Gerawan Farming, Inc. (Discharger) owns and operates the Plant 3 Kerman Fruit Packing Facility (or Facility) at 14044 W. Central Avenue in Kerman. This MRP establishes monitoring and reporting requirements related to the waste discharges regulated under Waste Discharge Requirements Order R5-2020-0032 (WDRs Order). Each of the Findings set forth in the WDRs Order, including those pertaining to the need for submission of reports, are hereby incorporated as part of this MRP.

The monitoring reports are necessary to determine compliance with the WDRs Order. The Discharger shall not implement any changes to this MRP unless and until the Central Valley Regional Water Quality Control Board (Central Valley Water Board) adopts, or the Executive Officer issues, a revised MRP

A glossary of terms used in this MRP is included on the last page.

This MRP may be separately revised by the Executive Officer, in accordance with their delegated authority under Water Code section 13223.

I. GENERAL MONITORING REQUIREMENTS

A. FLOW MONITORING

Hydraulic flow rates shall be measured at the monitoring points specified in this MRP. All flow monitoring systems shall be appropriate for the conveyance system (i.e., open channel flow or pressure pipeline) and liquid type. The measurements may be based on flow meter readings or pump run time estimate. The method of measurement must be specified. Unless otherwise specified, each flow meter shall be equipped with a flow totalizer to allow reporting of cumulative volume as well as instantaneous flow rate. Flow meters shall be calibrated at the frequency recommended by the manufacturer; typically, at least once per year and records of calibration shall be maintained for review upon request.

B. MONITORING AND SAMPLING LOCATIONS

Samples shall be obtained at the monitoring points specified in this MRP. Central Valley Water Board staff shall approve any proposed changes to sampling locations prior to implementation of the change.

The Discharger shall monitor the following locations to demonstrate compliance with the requirements of this MRP:

Table 1 - Monitoring Location Designations

Monitoring Location	Monitoring Location Description
EFF-001	Location where a representative sample of the waste stream can be obtained prior to the discharge to the evaporation/percolation pond.
PND-001	Evaporation/Percolation Pond
SW-001, SW-002	Source water supply for the Facility.
Groundwater Monitoring Wells (MW-1, etc.)	Any well used to evaluate the groundwater quality underlying Plant 3.
LAA-001	Should land application of wastewater be selected as a disposal option, the acreage and location of the land application area.

C. SAMPLING AND SAMPLE ANALYSIS

All samples shall be representative of the volume and nature of the discharge or matrix of material sampled. Except as specified otherwise in this MRP, grab samples will be considered representative of water, wastewater, soil, solids/sludges and groundwater. 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, temperature, electrical conductivity, dissolved oxygen, wind speed, and precipitation) may be used provided that:

1. The operator is trained in proper use and maintenance of the instruments;

2. The instruments are field calibrated at the frequency recommended by the manufacturer;

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 this MRP.

Laboratory analytical procedures shall comply with the methods and holding times specified in the following (as applicable to the medium to be analyzed):

- *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater* (EPA);
- *Test Methods for Evaluating Solid Waste* (EPA);
- *Methods for Chemical Analysis of Water and Wastes* (EPA);
- *Methods for Determination of Inorganic Substances in Environmental Samples* (EPA);
- *Standard Methods for the Examination of Water and Wastewater* (APHA/AWWA/WEF); and
- *Soil, Plant and Water Reference Methods for the Western Region* (WREP 125).

Approved editions shall be those that are approved for use by the United States Environmental Protection Agency (EPA) or the State Water Resources Control Board (State Water Board), Division of Drinking Water's Environmental Laboratory Accreditation Program (ELAP). The Discharger may propose alternative methods for approval by the Executive Officer. Where technically feasible, laboratory reporting limits shall be lower than the applicable water quality objectives for the constituents to be analyzed.

If monitoring consistently shows no significant variation in a constituent concentration or parameter after at least 12 months of monitoring, the Discharger may request this MRP be revised to reduce monitoring frequency. The proposal must include adequate technical justification for reduction in monitoring frequency. This monitoring program shall remain in effect unless and until a revised MRP is issued.

II. SPECIFIC MONITORING REQUIREMENTS

A. EFFLUENT MONITORING (EFF-001)

Effluent samples shall be collected prior to discharge to the evaporation/percolation pond. Effluent monitoring at Monitoring Location EFF-001 shall consist, at the minimum, the following:

Table 2 – Effluent Monitoring

Constituent/Parameter	Units	Sample Type	Frequency
Flow (see 1 below)	gpd	Meter	Daily
pH	s.u.	Grab	Monthly
EC	µmhos/cm	Grab	Monthly
BOD_5	mg/L	Grab	Monthly
TDS	mg/L	Grab	Monthly
FDS	mg/L	Grab	Monthly

Constituent/Parameter	Units	Sample Type	Frequency
Nitrate as N	mg/L	Grab	Quarterly
Ammonia as N	mg/L	Grab	Quarterly
TKN	mg/L	Grab	Quarterly
Total Nitrogen	mg/L	Grab	Quarterly
TTHMs	µg/L	Grab	Quarterly
General Minerals	various	Grab	Annually (see 2 below)
Semi-Volatile Organics (EPA Method 625)	various	Grab	Annually (see 2 below)

1. Flows into the pond shall be monitored daily. Flow monitoring may be metered or estimated based on pump run time or other approved method. Monitoring reports shall include basis for estimate and supporting calculations.
2. Annual samples to be collected in the third quarter between July and September.

B. POND MONITORING (PND-001)

The Discharger shall monitor the effluent in the evaporation/percolation pond at Monitoring Location PND-001 when water is present. If the pond is dry the monitoring report shall so state. Sampling and monitoring will be conducted from a location that will provide a representative sample (i.e., opposite the inlet to the pond).

Permanent markers (e.g., staff gages) shall be placed in the pond. The markers shall have calibrations indicating water level at the design capacity and available operational freeboard. Freeboard shall be measured vertically from the water surface to the lowest elevation of pond berm (or spillway/overflow pipe invert) and shall be measured to the nearest 0.10 feet. Monitoring shall include, at a minimum, the parameters and constituents specified below:

Table 3 – Pond Monitoring

Constituent/Parameter	Units	Sample Type	Frequency
Freeboard	Feet (± 0.1)	Measurement	Monthly
Odors	--	Observation	Weekly
DO (see 1 below)	mg/L	Grab	Monthly

1. DO shall be monitored between 8:00 am and 10:00 am. Samples shall be taken opposite the pond inlet approximately one foot below the pond surface. If there is less than one foot of water in the pond, no sample shall be collected, and the reason noted in the applicable monitoring report.

The Discharger shall conduct additional monitoring in the evaporation/percolation pond when odors are detected (or reported) and that have DO less than

1.0 mg/L. The pond shall be monitored daily for pH and DO until the dissolved oxygen is greater than 1.0 mg/L. In addition, the Discharger shall inspect the condition of the pond once per week and document visual observations. Notations shall include observations of:

a. Accumulations of dead algae, vegetation, scum, or debris on the pond surface and

b. Condition of the pond liner (if one is installed).

C. SOURCE WATER SUPPLY MONITORING (SW-001 AND SW-002)

Samples shall be representative of the source water supplied to the Facility. The RWD indicates source water is from two wells operated alternatively on every other day. Well SW-001 is at the northeast corner of the evaporation/percolation pond. Well SW-002 is about 150 feet northeast of SW-001 at the southwest corner of the main packing facility building. Since the source water is from more than one source, the results shall be presented as a flow-weighted average of both sources. At a minimum, source water shall be monitored as specified below:

Table 4 – Source Water Monitoring

Constituent/Parameter	Units	Sample Type	Frequency
EC	µmhos/cm	Grab	Quarterly
TDS	mg/L	Grab	Quarterly
General Minerals	mg/L	Grab	Annually
TTHMs	µg/L	Grab	Annually

D. GROUNDWATER MONITORING REQUIREMENTS

Provision H.6 of the WDRs Order requires the submittal of a groundwater monitoring workplan to evaluate groundwater quality upgradient and downgradient of the Facility (unless the Discharger chooses to line the evaporation/percolation pond or pursue land application of the wastewater). When the Discharger has installed a monitoring well network and satisfied Provision H.7 of the WDRs Order, groundwater monitoring of the approved network shall be conducted as described below.

After measuring water levels and prior to collecting samples, each monitoring well shall be adequately purged to remove water that has been standing within the well screen and casing that may not be chemically representative of formation water. Depending on the hydraulic conductivity of the geologic setting, the volume removed during purging is typically from 3 to 5 volumes of the standing water within the well casing and screen, or additionally the filter pack

pore volume. The Discharger shall monitor all wells in its groundwater monitoring well network (MW-1 through MW-X), and any additional wells installed, for the following:

Table 5 – Groundwater Monitoring

Frequency	Constituent/Parameter	Units	Sample Type
Quarterly	Depth to Groundwater	0.01 feet	Measured
Quarterly	Groundwater Elevation	0.01 feet (see 1 below)	Calculation
Quarterly	Gradient	Feet/foot	Calculation
Quarterly	Gradient Direction	Degrees	Calculation
Quarterly	pH	pH Units	Grab
Quarterly	EC	µmhos/cm	Grab
Quarterly	Total Organic Carbon	mg/L	Grab
Quarterly	Total Dissolved Solids	mg/L	Grab
Quarterly	Arsenic	mg/L	Grab
Semiannually	General Minerals	various	Grab

1 Groundwater elevations shall be determined based on depth-to-water measurements using a surveyed elevation reference point on the well casing.

The Discharger shall maintain its groundwater monitoring well network. If a monitoring well(s) is dry for more than four consecutive sampling events or is damaged, the Discharger shall submit a workplan and proposed time schedule to replace the monitoring well(s). The monitoring wells(s) shall be replaces following Executive Officer approval of the workplan. Once installed, all new monitoring wells shall be added to the existing groundwater monitoring well network.

III. REPORTING REQUIREMENTS

All monitoring reports should be converted to a searchable Portable Document Format (PDF) and submitted electronically. Documents that are less than 50MB should be emailed to*: centralvalleyfresno@waterboards.ca.gov*. Documents that are 50 MB or larger should be transferred to a CD, DVD, or flash drive and mailed to the following address:

Central Valley Regional Water Quality Control Board
Region 5 – Fresno Office
1685 “E” St.
Fresno, California 93706

To ensure that your submittal is routed to the appropriate staff person, the following information should be included in the body of the email or transmittal sheet:

Program: Non-15,
Facility: Gerawan Plant 3 Fruit Packing Facility
Order: R5-2020-0032
County: Fresno
Place ID: 859835

A transmittal letter shall accompany each monitoring report. The letter shall include a discussion of all violations of the WDRs and this MRP during the reporting period and actions taken or planned for correcting each violation. If the Discharger has previously submitted a report describing corrective actions taken 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 certifying under penalty of perjury that the report is true, accurate and complete to the best of the signer's knowledge.

In reporting monitoring data, the Discharger shall arrange the data in tabular form so that the date, sample type (e.g., effluent, groundwater, 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 the WDRs 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.

Laboratory analysis reports shall be included in the monitoring reports. All laboratory reports must also be retained for a minimum of three years. For a discharger conducting any of its own analyses, reports must also be signed and certified by the chief of the laboratory.

Monitoring information shall include the method detection limit (MDL) and the Reporting limit (RL) or practical quantitation limit (PQL). If the regulatory limit for a given constituent is less than the RL (or PQL), then any analytical results for that constituent that are below the RL (or PQL) but above the MDL shall be reported and flagged as estimated.

All monitoring reports that involve planning, investigation, evaluation or design, or other work requiring interpretation and proper application of engineering or geologic sciences, shall be prepared by or under the direction of persons registered to practice in California pursuant to California Business and Professions Code sections 6735, 7835, and 7835.1.

A. SEMIANNUAL MONITORING REPORTS

Semiannual Monitoring Reports shall be prepared and submitted to the Central Valley Water Board by the **1st day of the second month following the semiannual monitoring period**. Table 6 below defines the months that compose each semiannual monitoring period and their respective due date.

Table 6 – Semiannual Reporting Periods

Monitoring Report	Months	Report Due
1st Semiannual Report	November through April	1 June Each Year
2nd Semiannual Report	May through October	1 December Each Year

Each Semiannual Report shall include the following:

1. Results of the **Effluent Monitoring** as specified in Section II.A., including:

    a. Calculation of the 12-month rolling average EC of the discharge for each month of the quarter using the EC value for that month averaged with the EC values for the previous 11 months (results must include supporting calculations);

    b. Calculation of the maximum daily flow, monthly average flow, and cumulative annual flow, for each month of the quarter.

2. Results of **Pond Monitoring** as specified in Section II.B.

3. Results of **Source Water Supply Monitoring** as specified in Section II.C., including:

    a. If the source water supply is from more than one source, the Discharger shall calculate the flow-weighted average concentration for each constituent monitored (include supporting calculations).

    b. Calculation of the 12-month rolling average EC of the source water for each month of the quarter using the EC value for that month averaged with the EC values for the previous 11 months (results must include supporting calculations);

4. Results of the **Groundwater Monitoring** as specified in Section II.D.

    a. A narrative description of all preparatory, monitoring, sampling, and sample handling for groundwater monitoring.

b. A field log for each well documenting depth to groundwater; sample preparation (e.g., filtering); and sample preservation. For each sampling event, the Operator may provide a table summarizing this information for all groundwater monitoring wells sampled in lieu of providing a field log for each well. The field logs should be made available on request of the Regional Board.

c. Calculation of the groundwater elevation at each monitoring well, and determination of groundwater flow direction and gradient on the date of measurement.

d. Summary data tables of analytical results collected during the quarter and the current water table elevations

B. ANNUAL MONITORING REPORT

In addition to the above the Discharger shall submit the following additional information as part of the Second Semiannual Monitoring Report due on **1st December** of each year.

1. Total annual effluent flow, and the average monthly flows for each month of the year, compared to the total annual flow limitation of the WDRs Order.
2. Analysis of the data and groundwater flow directions shall be performed at least annually and shall be performed under the supervision of a California licensed professional. The groundwater analysis shall be provided in the annual report.
3. Tabular and graphical summaries of all data collected during the year.
4. A discussion of compliance and corrective actions taken, as well as any planned or proposed actions needed to bring the discharge into full compliance with the MRP.
5. Names, titles, and telephone numbers of persons to contact regarding the Facility for emergency and routine situations.
6. A calibration log verifying calibration of all hand-held monitoring instruments and devices used to comply with the prescribed monitoring program.
7. Discussion on annual chemical usage at the Plant (e.g., chemical name, purpose, and quantity used).
8. A summary of any changes in processing that might affect waste characterization and/or discharge flow rates.

9. An annual update to the Salinity Reduction Work Plan (as required by Provision H.5).

If, in the opinion of the Executive Officer, the Discharger fails to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability, or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to $10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including sections 13268, 13350 and 13385. The Central Valley Water Board reserves its right to take any enforcement actions authorized by law.

Any person aggrieved by this action of the Central Valley Water Board may petition the State Water Resources Control Board to review the action in accordance with California Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Resources Control Board must receive the petition by 5:00 p.m., 30 days after the date of this MRP, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Resources Control Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the internet (http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided on request.

This MRP supersedes MRP R5-2019-0905. The Discharger shall implement the above monitoring program **starting 1 July 2020**.

I, PATRICK PULUPA, Executive Officer, do hereby certify the forgoing is a full, true and correct copy of the Monitoring and Reporting Program R5-2020-0032 issued by the California Regional Water Quality Control Board, Central Valley Region, on 4 June 2020.

Patrick Pulupa

Digitally signed by Patrick Pulupa
Date: 2020.06.29 15:45:58 -07'00'

Water Boards

PATRICK PULUPA, Executive Officer

GLOSSARY

BOD_5	Five-day biochemical oxygen demand
$CaCO_3$	Calcium carbonate
DO	Dissolved oxygen
EC	Electrical conductivity at 25° C
FDS	Fixed dissolved solids
TDS	Total dissolved solids
TKN	Total Kjeldahl nitrogen
TSS	Total suspended solids
Continuous	The specified parameter shall be measured by a meter continuously.
24-hr Composite	Samples shall be a flow-proportioned composite consisting of at least eight aliquots over a 24-hour period.
Daily	Every day except weekends or holidays.
Twice Weekly	Twice per week on non-consecutive days.
Weekly	Once per week.
Twice Monthly	Twice per month during non-consecutive weeks.
Monthly	Once per calendar month.
Quarterly	Once per calendar quarter.
Semiannually	Once every six calendar months (i.e., two times per year) during non-consecutive quarters.
Annually	Once per year. Annual samples shall be collected in the third quarter between July and September.
mg/L	Milligrams per liter
mg/kg	Milligrams per kilogram
mL/L	Milliliters [of solids] per liter
µg/L	Micrograms per liter
µmhos/cm	Micromhos per centimeter
gpd	Gallons per day
mgd	Million gallons per day
MPN/100 mL	Most probable number [of organisms] per 100 milliliters

General Minerals	Analysis shall include; alkalinity (as $CaCO_3$), bicarbonate (as$CaCO_3$), boron, calcium, carbonate (as $CaCO_3$), chloride, iron, magnesium, manganese, nitrate as N, phosphate, potassium, sodium, sulfate, and verification that the analysis is complete (i.e., cation/anion balance).
Total Trihalomethanes	Analysis shall include: bromoform, bromodichloromethane, chloroform, and dibromochloromethane