



California Regional Water Quality Control Board

Central Valley Region



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Jeff Colombini
C.P. Olive Mill
12211 N. Highway 88
Lodi, CA 95240

NOTICE OF APPLICABILITY OF RESOLUTION NO. R5-2003-0106 CORTOPASSI PARTNERS, L.P, AND COCOA FARMS, L.P, SAN JOAQUIN COUNTY

Regional Board staff has reviewed your 25 October 2005 Report of Waste Discharge (RWD), the 16 November 2005 addendum, the 9 January 2006 addendum, and the 14 February 2006 addendum prepared by Ground Zero Analysis, Inc., for coverage under Resolution R5-2003-0106, *Waiver of Waste Discharge Requirements for Small Food Processors, Including Wineries, Within the Central Valley Region*. The RWD included a *Notice of Non-Applicability* for compliance with the storm water General Permit and an \$872 filing fee. Our review finds the RWD to be substantially complete.

Resolution No. R5-2003-0106 (a copy of which is enclosed), adopted by the Regional Board on 11 July 2003, is a conditional waiver of waste discharge requirements for small food processors including wineries. Based on the information you have submitted, the discharge as described in the RWD satisfies the general and specific conditions of Resolution No. R5-2003-0106 for the projected volume of wastewater to be produced.

Discharge Description

The olive mill is owned by Cortopassi Partners, L.P., while the land application areas are owned by Cocoa Farms, L.P. (collectively Discharger). The olive mill is at 12211 N. Highway 88, Lodi, San Joaquin County. The olive mill and land application areas consist of approximately 733-acres; the olive mill facility consists of approximately 2.5-acres. The amount of olives crushed is planned to increase in the future from approximately 500 tons in 2006 to approximately 8,000 tons per year. Initially, the crush rate will be 100 tons per day; that is expected to grow to 200 tons per day, and may increase further to accommodate the crop and product demand.

Limited amounts of wastewater will be generated at the facility. Some of the wastewater consists of high strength cleaning or other activity wastewater that is not appropriate for discharge to land under Resolution No. R5-2003-0106. Those waste streams will be separated and discharged at a municipal wastewater treatment facility.

Olive wash water will be generated from cleaning the fruit prior to processing. Wash water will only be generated when the crop is processed. In California, the olive harvest begins in mid-September, peaks in mid-October, and is finished in mid-November. The Discharger intends to process during the months of October through December. Processing will occur 24-hours a day, seven days a week. In the first

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year of operation, approximately 500 tons of olives will be processed over a 5-day continuous period. With expansion, the Discharger plans to process up to 8,000 tons of olives at a processing rate of 200 tons per day. At full buildout, the processing duration will span a 40-day period, which will generate approximately 60,000 gallons of wash water. Olive wash water (generated by washing olives prior to processing) is anticipated to be relatively low strength with minor amounts of biochemical oxygen demand and total dissolved solids. Based on a similar olive mill, wash water quality is expected to be approximately:

<u>Constituent</u>	<u>Units</u>	<u>Estimated Concentration</u>
Biochemical Oxygen Demand	mg/L	10.2
Total Dissolved Solids	mg/L	1,626
Total Nitrogen (as N)	mg/L	10
Potassium	mg/L	64.5
Phosphorous	mg/L	4.9
Calcium	mg/L	98.3
Magnesium	mg/L	6.5
Sodium	mg/L	132
pH	Std. Unit	7.7

All other wastewater generated at the facility will be collected, stored in an above ground tank or drums, and hauled for disposal at East Bay Municipal Utility District (EBMUD). Those wastewater streams include boiler blowdown, clean-in-place (CIP) solutions, and floor and equipment cleaning solutions; in addition, any wastewater generated in boiler feed water treatment, if added in the future, shall also be collected and disposed off-site at EBMUD.

Wash water will be applied by drip irrigation to a 127-acre vineyard. No wash water will be applied during times of precipitation or when the soil is saturated. Activities in the olive mill will be curtailed or modified to prevent the application of wastewater when climatic or soil conditions do not allow application.

Based on the typical volume and strength of wastewater that will be produced, the anticipated maximum hydraulic and agronomic loading rates for the proposed disposal area fall within an acceptable range. The Discharger has identified Best Management Practices that will be implemented to minimize wastewater strength and potential odor problems, and to prevent hydraulic or nutrient overloading. Those practices include: source control, management of olive mill activities consistent with climatic conditions, and spreading wash water over a large land application area.

Although the Total Dissolved Solids (TDS) concentration in wash water (presented in the table above) is likely higher than groundwater concentrations of TDS in the area, spreading the wash water over the relatively large land application area (127-acres) will result in a wash water hydraulic loading of 0.017-inch/acre. TDS originating in wash water will be applied to the land application area at a rate of 6.4 lbs/acre, which is below typical crop uptake rates. The estimated volume of wash water used to calculate the maximum loading rates was 60,000 gallons per year. Wash water data will be compiled and included in an annual report.

Solid waste produced by the facility will consist of leaves and twigs generated in olive fruit harvesting and olive pomace generated by olive oil production. All the solid waste will be spread on the adjacent

land application areas. A total of 733-acres of land application areas are available for solid waste. Based on nitrogen uptake rates, the solid waste loading rates fall within acceptable levels.

Leaves and twigs will be separated from the olive fruit and deposited into a storage hopper from which they will be loaded into field spreaders. The material will be applied to the land application area and disced into the ground. Similarly, the pomace will be stored in a covered storage area, loaded into field spreaders, and disced into the ground.

The olive mill will generate approximately 2-tons per day of leaves and approximately 85 tons per day of pomace. In the first year, the total of solid waste is expected to be approximately 435 tons; the total will increase to 1,300 tons by the third year and approximately 7,000 tons at maximum plant capacity. As a contingency solid waste management option, the Discharger can transport the waste to a landfill for disposal.

Conditional Waiver

Based on the information submitted in the RWD and addendums, the discharge as described above satisfies the general and specific conditions of Resolution No. R5-2003-0106 for the current amount of wastewater produced. Therefore, this letter serves as formal notice that Resolution No. R5-2003-0106 is applicable and waste discharge requirements for this facility are waived.

Enclosed is a copy of Resolution No. R5-2003-0106 and the associated monitoring and reporting program. As described therein, an annual report must be submitted by **1 February** of each year.

If the discharge violates the terms or conditions of the waiver, the Regional Board may take enforcement action, including assessment of administrative civil liability. If the method of olive mill wastewater and solids disposal change from those described in the RWD, you must submit a new RWD. Please note that the waiver will expire on 11 July 2008, at which time you must submit a new RWD with filing fee to renew the waiver, or cease the discharge. If your total annual flow exceeds the flow described in the RWD, if the character of the waste changes, if solid waste application creates nuisance conditions, or exceeds agronomic application rates, the waiver is no longer applicable to your facility and you must submit a new RWD for individual Waste Discharge Requirements.

If you have any questions, please contact Tim O'Brien at (916) 464-4616.

- Original Signed by -

PAMELA C. CREEDON
Executive Officer

enc: General Order No. R5-2003-0106

cc: w/o enc Mike Huggins, San Joaquin County Environmental Health Department, Stockton