



## **EcoGrease and EcoFlush to treat effluents in a sausage processing facility**

**Products:** EcoGrease and EcoFlush      **Trial setting:** Commercial processing plant  
**Location:** Talagante, Chile

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### **Objective**

Improve the quality of effluents produced at Cecinas Hinojosa sausage processing facility.

### **Methods**

A sample of 20 liters of effluent was placed in a plastic bucket. 125 milligrams of EcoGrease and 75 milligrams of EcoFlush were added (This corresponds to a dosage of 6.25 grams of EcoGrease and 3.75 grams of EcoFlush per cubic meter). Samples were collected at the beginning, then 17 hours and 40 hours after treatment. The samples were processed by standard methods to determine the biological oxygen demand (DBO5) and the oil and grease determination (O & G).

After treatment a lid was placed on the bucket and it was left covered and without aeration for the duration of the test.

### **Results**

The following table shows the results of the water quality analysis:

| Day     | Sample | Hour  | Time(h) | DBO5   | % Efic | O & G  | % Efic |
|---------|--------|-------|---------|--------|--------|--------|--------|
| 1/25/11 | M 1    | 17.04 | 0       | 5495.4 | 0      | 2639.2 | 0      |
| 1/26/11 | M 2    | 12.20 | 17      | 1240.8 | 77.4   | 1534.8 | 41.8   |
| 1/27/11 | M 3    | 11.25 | 40      | 786.8  | 85.7   | 487.8  | 81     |

Fourty hours after treatment the load of organic matter in the effluent, measured as BOD5, was reduced by 85.7% and the oils and grease by 81%.