



## **MICROBE-LIFT® Technology Helps Blue Jean Stone Washer Improve Effluent Quality**

**Location:** Textile Company, Caribbean

**Background:** Ecological Laboratories Inc. had utilized **MICROBE-LIFT®** technology in several textile fabrication facilities in the Caribbean and South America with excellent success.

**Objective:** The major waste treatment challenges of textile manufacturers include degrading sizing chemicals and color elements. The operations in the Caribbean and South America generally use a series of lagoons to treat their waste.

In this particular system of lagoons, **MICROBE-LIFT®** was added to the first facultative lagoon along with the caustic soda and micronutrients that were normally added. The objective was to eliminate the strong indigo color as evidenced in the following pictures.



**Fig. 1:** These pictures of the lagoons show extreme color in the water and surface scum.



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**Fig. 2:** The effluent from the plant shows extreme level of indigo pigment in the wastewater.

The dosage of MICROBE-LIFT® varied with changes in load and flow and MICROBE-LIFT® was added to the other lagoons in sequence at a decreasing rate. This system is very cost-effective as it does not require electrical aeration or pumps, and does not require advanced technical support of the operations. The wastewater is very colored with indigo dye that is being removed from the fabric during stone washing.

**Results Achieved:** After treatment, the water is dramatically cleaner in color and the BOD has been reduced to 5 mg/l.



**Fig. 3:** This picture shows a much cleaner lagoon after MICROBE-LIFT® treatment.

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**Fig. 4:** The final effluent is dramatically cleaner showing clarity similar to that which you would expect to see in drinking water.



The customer was very pleased that this extremely positive result was obtained with totally natural biological treatment that optimized the biological degradation of the waste. No polymers or other chemical treatments were required.

For more information on **MICROBE-LIFT®** Technology contact  
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