



MONSOON® Aerators Treat Wastewater in Beni Suef, Egypt

Oxygen requirements were met almost immediately after the units were installed. Beni Suef, Egypt

THE FACTS

LOCATION: Beni Suef, Egypt

APPLICATION: Oxidation Ditch

DATE OF INSTALLATION: Spring 2010

TOTAL PROJECT COST: \$90 Million

PROBLEM: Low oxygen level of wastewater

SOLUTION: Purchased 16 Float-Mounted MONSOON Paddlewheel Aerators

EQUIPMENT: 30HP MONSOON Aerators

BUYER: Not Disclosed

ABOUT THE MONSOON

- High oxygen transfer rates and strong horizontal mixing
- All stainless steel construction
- Ideal for lagoons, high rate aeration and mixing, equalization basins, and oxidation ditches

ABOUT AEROMIX

AEROMIX is a world leader in water and wastewater treatment equipment. AEROMIX offers full lines of treatment systems, aeration, equipment, and solar-powered equipment. Please visit us online at www.aeromix.com to learn more.

PROJECT BACKGROUND

Beni Suef is a large city in central Egypt on the western bank of the Nile River. With a population of 200,000, the municipality is known most for its rich agriculture. As the city grew it was decided that a new wastewater treatment plant should be built, using an oxidation ditch application.

Several options for treating the wastewater were evaluated. Due to unsuccessful previous experiences with competing aeration equipment, the customer was concerned about achieving the required oxygen level. The AEROMIX MONSOON Aerator was selected.

AEROMIX SOLUTIONS

AEROMIX recommended 16 - 30HP MONSOON Floating Paddlewheel Aerators be placed in the new oxidation ditch to achieve the required oxygen level. The float mounted units adjust to any water variations, enabling the customer to operate the equipment in fluctuating water levels.

The customer's expectations were exceeded when oxygen level requirements were met having only 12 units in operation, and almost immediately after the units were installed. They are very pleased because they can extend product life by only running 12 units at a time.

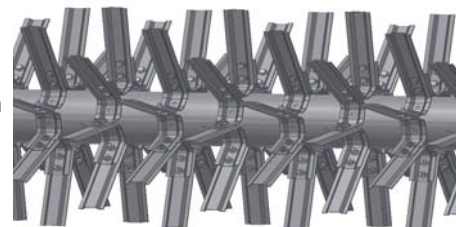
AEROMIX has already received a letter of intent stating that the customer is very happy and will purchase 16 additional units for a wastewater plant expansion project in the near future.

HOW IT WORKS

The MONSOON aerator rotating blades turn at 40 to 80 RPM and slowly, but efficiently scoop water into the air. This scooping and mixing action breaks the water droplets into a fine mist intimately combining it with the air, generating high levels of oxygen transfer. The horizontal pumping action then pushes the highly aerated water out of the basin while drawing water low in dissolved oxygen from deep within the basin and behind the MONSOON aerator, resulting in extremely high basin oxygen transfer conditions.

FEATURES

- 100% stainless steel construction
- Integral legs and feet to prevent basin and equipment damage
- Extra heavy duty gear reducer
- Grease lubricated bearings
- Field-replaceable rotor blades
- Adjustable power draw



In addition, thorough factory testing for each MONSOON Paddlewheel Aerator ensures the equipment meets the stringent AEROMIX quality standards.