

CASINO Facility News

Helping Facility Managers Solve Wastewater Problems

Oregon Casino Wins Big With High-tech Treatment Plant

Behind the bright neon lights, lushly planted landscape and glitz of the Spirit Mountain Casino in Grand Ronde, Oregon is a new, high-tech wastewater treatment plant that is helping the casino process 102k gallons per day of waste in an efficient and environmentally friendly manner. An integral part of the treatment plant is an Auger Monster® 1800, which grinds and screens solids before the waste flows into a sequencing batch reactor (SBR) unit.

The Auger Monster®, manufactured by JWC Environmental, was installed four years ago in the headworks as part of a three phase waste treatment plan that developed as the 7 year-old casino grew. Plant operators wanted to bring the total suspended solids down from 1,500 ppm to 300 ppm. The Auger Monster's® 3mm perforated trough captures solids, washes the fecal material back into the flow and dewateres the retained solids before depositing them in a screenings compactor. The biggest problem was lots of paper material in the flow.

"The Auger Monster® is excellent," said plant operator Rod Smith. "We're removing 1.5 yards of material per week. There are lots of solids in the stream that the Auger Monster® takes out."

The modular system efficiently handles solids. First a powerful dual-shafted Channel Monster® grinder turns them into small particles. This reduces the volume of solids and ensures smooth removal of undesirable material. Next, Auger Monster's® inclined conveyor with perforated trough screens out solids, which then travel up and out of the waste channel while spray jets wash fecal material back into the flow. Since Spirit Mountain wants all material removed they have turned off the spray wash option. Finally, the center-

Spirit Mountain Casino Uses High-Flow Auger Monster® to Screen Wastewater



less screw conveyor presses the water out of the solids and deposits them in a screenings compactor. Screenings are drier, cleaner and produce fewer odors.

One reason Spirit Mountain Casino selected JWC Environmental to provide equipment was their ability to meet an extremely short month design to installation schedule. A local JWC rep swung into action and put the machine's assembly on the fast track. In addition, JWC managers visited the site to ensure a smooth installation and start-up process.

"This solution worked well for them and we were happy to work quickly to help them meet their rigorous time schedule," said Mike Romero, JWC's Western Sales Manager. "I believe we provided great customer service."

Plant operator Smith said he was impressed with JWC's service. "We are extremely happy with the Auger Monster®. We have a complete headworks set-up and everything went very well," he said.

The full plant headworks includes the Channel Monster®, the Auger Monster, static screen and a grease trap. The waste is then sent to an SBR unit and put through a UV disinfection process.

Once processed, the wastewater is put to work as reclaimed water and used to irrigate the landscaping around the casino. Smith said the casino is dedicated to protecting ground water and the nearby South Yamhill River. They do not discharge into the river.

The casino, located in a rural area south of Salem, employs 1,600 and attracts 9,000 visitors per day and 3 million people per year.

JWC has 30 years of wastewater experience and a nationwide network of sales and service professionals. **Reach them at 800-331-2444 or 949-833-3888.** Visit them on the web at www.jwce.com or e-mail jwce@jwce.com.