

# 'Third Straw' Uncapped to Provide Lake Mead Water to Vegas

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People work on a barge used to remove a plug on a new water intake on Lake Mead, Wednesday, Sept. 23, 2015, near Boulder

The intake was unplugged Wednesday to finish flooding an \$817 million tunnel and complete a complicated and perilous "Third Straw" project to draw drinking water for Las Vegas from a shrinking Lake Mead.

An 8.6-ton steel ball was hoisted to a barge, Southern Nevada Water Authority spokesman Bronson Mack said, in essence pulling the plug on a massive lake-bottom structure built somewhat like a big bathtub drain.

"It's a milestone. We're ready for operation," project chief Jim Nickerson, of Vegas Tunnel Constructors, said ahead of the final act in the six-year project.

The pipeline won't draw more water from the lake than before, or make the surface level drop any faster. But it will keep taps flowing in Las Vegas homes and casinos even if drought-stricken Lake Mead drops to its lowest levels, officials said.

The next step will be completion in 2020 of a third pumping station. That job begins next month and will cost another \$650 million.

Some questions and answers about the project:

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## WHY IS THE NEW INTAKE NEEDED?

The new pipeline can draw water from the deepest part of Lake Mead, the snowmelt-fed Colorado River reservoir behind Hoover Dam that provides more than 90 percent of Las Vegas' drinking water supply.

Erika Moonin, water authority project manager, said Tuesday it should ensure an uninterrupted supply far into the future.

The new intake taps the lake at 860 feet above sea level. That's 190 feet below the tallest existing intake and 218 feet below the lake's surface level Wednesday.

The reservoir is down 147 feet from when it was at full capacity in 1983. It's currently 38 percent full.

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## WHO WILL IT SERVE?

The water will flow through the pipeline to the Las Vegas area, about 30 miles away.

The region had about 126,000 residents when it began drawing water from Lake Mead in 1971. It now has 2 million residents and draws 40 million tourists a year.

Southern Nevada averages a little over 4 inches of rain a year, and the Southwest U.S. is also gripped by a record 15-year drought.

Customers served by the Southern Nevada Water Authority and its seven member agencies are footing the bill.

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## HOW WAS THE PIPELINE BUILT?

The tunnel runs 3 miles. It was drilled by Vegas Tunnel Constructors, a Nevada-based subsidiary of Italy-based engineering giant Salini Impregilo.

About 300 people worked on the project. One worker, Thomas Albert Turner, 44, of Henderson, died on the job in June 2012.

A \$25 million drilling rig the length of two football fields was lowered in pieces 600 feet underground and reassembled to chew through bedrock while inching along a set of rails.

The tunnel was tiled behind it with more than 2,400 14-inch-thick sections of curved concrete.

The result is a clean, 20-foot-diameter tube big enough for a subway train. It slopes slightly from the