



Helmerich Sea Lion Cove

Tulsa Zoo and Living Museum

Tulsa, Oklahoma

Project Statistics

Completion Date: 2011
Estimated Construction Cost: \$3.9 million

Alvine Aquatics provided life support engineering in addition to mechanical, electrical, and plumbing systems design for an enlarged sea lion exhibit.

The new exhibit is comprised of a chilled 100,000-gallon saltwater tank, underwater viewing areas, and larger animal living quarters. The Tulsa Zoo was able to expand their sea lion collection from two animals to five.

Life Support System Components:

- Two circulation pumps with basket strainers, each providing half the circulation flow, supply two horizontal, stacked, rapid flow sand filters.
- Disinfection is provided by side-stream flow fed through a packaged, skid-mounted ozone disinfection unit
- The exhibit was designed as a saltwater exhibit to comply with AZA recommendations for long-term health of the eyes of the sea lions.

