

The solution in this application was LaserFlow. LaserFlow uses a non-contact sensor that utilizes a non-contact ultrasonic level sensor and a laser to read the velocity below the surface. In this application the LaserFlow allowed for accurate readings to be taken even in the most turbulent of flows.

After the initial setup the LaserFlow sensor worked well for several hours. When the level decreased, the laser started to focus on the bottom of the channel due to the steep slope of the pipe. There were two options to correct this issue:

- Send a technician back into the confined space to position the LaserFlow sensor parallel with the flow stream.
- Change the slope programming setting to match the slope of the pipe without having to enter into the confined space.

It was decided the slope setting would be changed. After determining the slope of the pipe from a 12 foot rise over a 150 foot run = 8% slope. After a few program adjustments, the sensor worked flawlessly.



Flow Meter technician in the pipe adjusting the LaserFlow

Teledyne ISCO

P.O. Box 82531, Lincoln, Nebraska, 68501 USA
USA & Canada: (800) 228-4373 • Phone: (402) 464-0231 • Fax: (402) 465-3091
Web site: www.teledyneisco.com

Teledyne ISCO is continually improving its products and reserves the right to change specifications without notice.
©2013 Teledyne Technologies Incorporated L-0204-AN12 09/14

