

A P P L I C A T I O N

SETTLING POND LEVEL

PROVIDED BY ACCURATE MEASUREMENT SYSTEMS



The Application

This particular wastewater treatment facility has six cascading overflow ponds. When the sixth overflows, it becomes a major environmental hazard with hefty fine consequences. Therefore, monitoring this level is of utmost importance to the agency.

Installation of hard wired measurement equipment would be both difficult and costly due to the layout of the facility. The sixth pond is about ½ mile away from the control room where the SCADA PLC and the closest power is located.



Victor Valley Wastewater Treatment Plant

Products: Elpro Wireless Radio Link w/ Solar Powered System - Non-Contact Ultrasonic Level Transmitter

THE SOLUTION

The Client's first idea for the application was to purchase a gas-powered generator and use it to power an ultrasonic level transmitter. However, there was still the issue of getting the signal back to the control room.

The Elpro Wireless I/O Radio was suggested for a means to

transmit the signal back to the control room which was about 150 yards away. No problem there.

The real cost savings came in providing power via a solar panel system provided with the radio instead of using a generator. The solar panel charges the

backup battery which then powers both the Elpro Radio link and the level transmitter.



Ordering Information

Elpro Wireless I/O, Model: 905U-1, one placed at the pond, and the other placed in the control room.

Elpro Solar Power System, Model: ELASP 30-1248, installed at the pond.

STI Ultrasonic Level Transmitter, Model: IRU-2125

