

## Roy Water Conservancy Choose Multi-Mags for Accuracy and Ease-of-Use



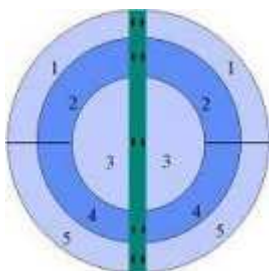
The Roy Water Conservancy Subdistrict was established in 1965 as a small reclamation project by the U.S. Bureau of Reclamation. The system was built originally built for agricultural needs in the Roy City area with pressurized irrigation being a secondary need. Today, the primary purpose is for irrigation or secondary water (untreated river water) that provides pressurized irrigation for domestic lawn and garden use, as well as to conserve, develop, and stabilize supplies of water for domestic, irrigation, power, manufacturing, and other uses. The agency is responsible for the maintenance of 9,000 secondary water connections for approximately 35,000 residents including 135 miles of pressurized pipes over 5,225 acres. The Subdistrict is located within the Weber Basin Water Conservancy District boundaries and serves exclusively within the Weber County limits. The service area is primarily Roy City but through the years it has grown to include small portions of West Haven, Hooper, and Riverdale. While the project cost was \$8.4 million today it has a value of \$40 million.

The Roy Water delivery system is largely pressurized by gravity, although pumping is required to provide pressure to the upper end of the system. When a pump station flow monitoring application presented itself in the year 2001, district staffers began researching meters that could do the job. The application would require two flowmeters for full pipe line sizes of 48 and 30 inches. According to Clark Fowers, Roy Water Supervisor, "The systems peak flow is about 70-75 cfs. That's what we're running through these two big mains." Due to the 20 foot underground piping location, insertable meters were desired to alleviate the need for additional piping required by non-insertable meter installations.



Pumping house on on of the system's resevoirs.

Fowers adds, "We selected the Marsh-McBirney Multi-Mags for several reasons. After researching all of the meters out there we knew Multi-Mag was the best choice for the application we have because it saved us both time and money. The local Marsh-McBirney representative, Rob Young of Goble-Sampson & Associates worked with Fowers on the meter selection.



The Multi-Mag Magmeter utilizes proven electromagnetic technology. The sensor has multiple electrodes that are precisely positioned according to pipe size. The electrodes constantly profile the flow to provide exceptionally high accuracy - even near bends and elbows. Independent laboratory test data from the National Institute of Standards and Technology (NIST) and the Water Research Center (WRc), as well as hundreds of installation worldwide, confirm Multi-Mag's

accuracy. The Multi-Mag Magmeter has become one of the most popular and effective products ever produced by MMI. Its ability to accurately measure flow in “less than ideal” conditions has earned Multi-Mag a great deal of respect in the water industry.

The meter is easily installed through a “hot tap” (pictured at right) without the need for expensive construction costs or flow shutdown one of the district’s prerequisites for meter selection due to the underground location. Regarding the Multi-Mag meters Fowers adds, “The hot tap method is the best idea because we didn’t have to cut a main and put a big menagerie in considering the piping is about 20 feet deep. It would have been a big project to dig the lines out and put in a different kind of meter. Our location was also restricted because both lines come in from under our pump house. If we couldn’t have measured close to the pump house location we would have had additional expense for transferring a signal back to our Intellution® SCADA (Supervisory Control And Data Acquisition) System. The SCADA system enables operations personnel to monitor the process variables of their plant or facility and interact with the facility through a computer workstation. The SCADA software allows the operations personnel to change process setpoints, trend data from the plant’s sensors and equipment, view and print operational reports, and start and stop equipment in the plant or facility.



The two meters are installed side by side and have been providing accurate flow data for over four years now. Concerning the accuracy and performance of the meter, Fowers adds, “The meters are working great.” Due to statewide water restrictions accurate flow data is more critical than ever for Roy Water. Accurate flow data provided by the Multi-Mag meters will ensure that they continue to set the shining example for their customers to “Remember to be water wise and slow the flow!”

For additional information contact McCrometer, Inc.  
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