

## MEMORANDUM

**TO:** Water District 47-O File

**FROM:** Corey Skinner *CS*

**DATE:** August 23, 2004

**SUBJECT:** Visit to West Ditch Measuring Site

On this day, Allen Merritt and I visited the West Ditch Measuring Site as a follow up visit to check on the status of the recently installed Parshall flume. Cindy Blakely, District 47-O Watermaster, had contacted the Department and requested that we take a look at the Parshall flume. Upon arriving at the site, it was observed that the flume was no longer experiencing submerged conditions as was observed earlier this summer. Allen and I proceeded to survey elevations of the flume since Cindy had expressed concern about the flume no longer being level. The survey revealed that the flume was sloped downstream and that there was approximately 0.10 feet of fall in the section upstream of the throat of the flume. After measuring the amount of flow through the flume and examining Parshall flume discharge tables it was determined that if 0.10 feet (amount of fall in the portion upstream of the throat) was added to the staff gauge reading on the flume, then an acceptable measurement could be made.

Upon returning to the office, Allen placed a call to Cindy, to direct her on how to read the staff gauge (add 0.10 feet to reading) to obtain acceptable measurements. Allen directed Cindy to apply the 0.10-foot adjustment to the readings taken with this device until the end of the season. It is the intent that the owners shall level the flume next spring after the winter freeze-thaw cycle.