

MEMORANDUM

Date: July 29, 2009
To: Water Right File 63-31933
From: Michele Edl
Re: license review

Applicant

This permit and a sibling permit for fire protection use (63-31932) lapsed on June 1, 2009 and both were reinstated with a penalty to their priority dates. SPF Water Engineering was hired by the permit holder to conduct both beneficial use field exams. Terry Scanlan, a certified water right examiner with SPF Water Engineering, conducted the exams on June 24, 2009 for both permits. The completed field reports were received in the state office on July 13, 2009.

I was asked to review the reports and accept them if appropriate. I found that the reports were acceptable and coordinated with other personnel to the reinstate the permits. I added SPFs Terry Scanlan as representative to permit holder in the database.

Source and POD

POD for this right is located on church property but outside the well house which contains supply tanks, valves and a dedicated fire protection well and pump. Water is piped from the POD to the well house and from there to the rest of the distribution system.

I completed some spatial data point correlation to tie the shapes from various layers to this location. The well tag number for this well is 0038981.

The field examiner did not make a capacity determination, only stating that the pumping capacity is greater than the permitted rate.

The system capacity is constrained by installed pump capacity. The initial test of this well showed a potential to yield 175 gpm (~0.39 cfs). The installed pump's performance curve indicates that the pump is designed and expected to provide 80 gpm and totalizer readings taken during the field exam showed 80 gpm (~0.18 cfs) in use, but the permit limits the rate to 0.04 cfs for domestic use.

This well is also the point of diversion for irrigation rights 63-32046, 63-32094 and 63-32100. The combined rate of the irrigation rights is 0.09 cfs. The installed pump is capable of providing for the combined total of domestic and irrigation use.

Water Use

This domestic use is regulated by the Southwest District Health Department as a public water system. The domestic use is for a church and the field examiner uses a congregation count that may be reasonable but is not documented. The volume recommended for Sundays is 4000 gpd which exceeds the permit condition limiting this use to 2500 gpd. I have reduced the annual volume by 1500 gpd x 52 or 0.2 af. An additional water right may be needed to cover the full use on Sundays.

Place of Use

POU overlap shows other ground water and surface water rights covering the place of use. Irrigation for landscaping is provided through other water rights held by the church: 63-32046, 63-32094 and 63-2100. I created the domestic place-of-use shape based on 2006 aerial photography and field exam photos.