

MEMORANDUM

Date: March 16, 2011
To: Water Right File 13-7668
From: cpadilla
Re: Licensing Memo

The PD is used for irrigation purposes only. The townhouses are serviced internally by city water per a conversation with Mrs. Funk 3/15/11.

The field examiner found 0.045 acres of irrigation but I rounded to 0.10 acres for licensing purposes. There were a few different ways to calculate volume:

$2500 \text{ gpd} \times 214 \text{ days} = 1.6 \text{ afa}$
 $0.03 \text{ cfs} \times 1.9835 \times 214 = 12.7 \text{ afa}$
0.6 af standard for irrigation associated with a domestic right
or $3.5 \text{ afa (headgate requirement)} \times 0.1 \text{ acres} = 0.4 \text{ afa}$

I recommend using the smaller of the options because, even though this is a domestic right, the right is indeed for irrigation only. The only reason this wasn't approved as irrigation right is because it wouldn't have been allowed. The same logic applies to the diversion rate. Even though the right holder applied for 0.04 cfs, the right is limited to the duty of water. The duty of water for the irrigation of 5 acres or less is 0.03 cfs per acre (even though $0.03 \text{ cfs} \times 0.1 \text{ acres} = 0.003 \text{ cfs}$ the minimum rate should be 0.03 cfs to operate the system).

Note that the current GIS data shows that the POU may extend into the NESW QQ. The QQ line is within 20 ft of the water right boundary and the margin of error is 30-50 ft. Therefore, the POU will be described within the NESW QQ only.