

MEMORANDUM

Date: August 29, 2011
To: Water Right File 45-13990
From: csaxton
Re: Volume

Erick Powell of Brockway Engineering questioned the volume licensed for 45-13990. License 45-13990 was originally issued with a total diversion volume of 2.4 AF. That number was based on 0.6 AF per internal domestic use for 4 domestic uses. No volume was recommended for external domestic use (or lawn irrigation). Review of the file does not indicate that the original permit was issued for internal use only and therefore it appears that there was an error when the license was issued without accounting for volume in association with external use.

Mr. Powell recommends 6.7 AF for the external domestic use, or lawn irrigation. Mr. Powell measured 1.65 acres of lawn irrigation for the 4 domestic uses (noting that none of the irrigated lawns for an individual domestic use exceeded $\frac{1}{2}$ acre in size). I feel comfortable in supporting Mr. Powells recommendation as the field headgate requirement in that area is 4 AF per acre. I calculate the external volume needed to be 6.6 AF, very close to Mr. Powells calculation ($1.65 \text{ acres} * 4 \text{ AF per acre} = 6.6 \text{ AF}$). I will recommend a replacement license be issued under Rule of Procedure 760 with a total authorized diversion volume of 9.1 AF ($2.4 \text{ AF internal} * 6.7 \text{ AF external}$).