

Memorandum

Date: November 22, 2010

From: Craig L. Saxton

Re: Proposed licensed diversion Vol for 98-7771

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I was looking through 98-7771 and got wrapped up in the volume discussion. In 2002, Wayne Baldwin made a pretty strong argument that the volume under this license should only be 168 acre feet by arguing that the 44 acres of "pond" wasn't a full 10 feet deep. He used a slope of 40%. I am not sure how he was using that number but for whatever reason, he felt pretty strongly about it according to his FE notes.

Your analysis proposed to license the full permitted volume of 444 af. I conducted an analysis and came up with the same conclusion of licensing 444 af, but because it was different, I wanted to share how I came up with the volume.

I think it is appropriate to make the argument that field examiner Wayne Baldwin's analysis to determine volume was wrong. I think we can make that argument by working backward by figuring out the number for the acres of wetland and determining if the average depth over that acreage seems reasonable.

I made a very rudimentary shape to get a estimate of how many acres there were in the POU. I ended up with 70 acres of wetland/pond that can be supported from GIS and the field examiners map in the file. I don't think anyone would argue that we can calculate acres more accurately with the GIS software we have now. So I think we could argue that Wayne was wrong on the total acres.

70 acres x 6.3' deep, gets us the 444 af. I feel that making the assumption that the average depth over 70 acres of wetland is 6.3', is more in agreement with field examiner Wayne Baldwin's argument that the ponds weren't 10' deep all over the property.

1-18-11 / POU overlaps w/ 98-7837 with Myrtle Creek
as a source. Seepage + Evaporation under this
right is shared with 98-7837. For
Myrtle Cr.
98-7006 is an Irrigation right licensed in 1973 that
partially overlaps the POU for 98-7771. Seepage +
Evaporation from 98-7771 is shared with 98-7006.
CS.