

MINUTES
International Osoyoos Lake Board of Control
Annual Meeting

The Oroville Depot
1210 Ironwood Street
Oroville, Washington

Tuesday September 9, 2008, 2:30 PM

Attendance

	United States	Canada
Chairs	Dr. Cynthia Barton	Kirk Johnstone
Members	Col. Anthony Wright Kris Kauffman	Glen Davidson Brian Symonds
Secretaries	Robert Kimbrough	Daniel Millar
Guests	Commissioners: Irene Brooks, Jack Blaney, Pierre Trépanier Tom McAuley (Canadian Section, IJC), Dr. Mark Colosimo (US Section IJC), Larry Merkle (USACE), Ray Newkirk (WA Dept of Ecology), Ken Slattery (WA Dept of Ecology), Ken Brettmann (USACE).	

Minutes

1. Welcome and introductions Cynthia Barton
Cynthia Barton welcomed meeting participants and led a round of introductions.
2. Review of the agenda Cynthia Barton
The Board adopted the agenda without change.
3. Business from previous meeting
Subsequent to the meeting last fall, the Board met by teleconference on January 17, March 11, April 18, and June 6 to advance implementation of the Plan of Studies and review and approve four priority statements of work.
- 3.1 Okanogan channel capacity verification survey in 2006-07 Robert Kimbrough,
Ray Newkirk
In November, 2007, the State of Washington submitted HEC-RAS model results to the Board, thus completing the 2006 channel capacity analysis.

The results verified the conveyance of the Okanogan River above Zosel Dam is at least 2,500 cubic feet per second at a lake elevation of 913 feet. The assurance of conveyance upstream of the dam is included in condition 4 of the 1985 Supplementary Order of Approval.

Two criteria specify when the next channel capacity survey is due. 1) If the hydrologic conditions that could verify the channel's capacity do not occur for 5 consecutive years, then a channel capacity survey must be completed prior to the sixth year. 2) A channel capacity verification survey must be completed at least every ten years. So at a minimum, the next channel capacity survey is due in 2016.

3.2	<p>Osoyoos Lake activities related to the 2007 Osoyoos Water Science Forum</p> <p>Daniel Millar reported a few of several basin activities that are related to last year's Osoyoos Lake Water Science Forum. These included the following:</p> <ul style="list-style-type: none"> • Development of an Okanogan River Watershed Plan by the Okanogan Conservation District (addressing water flow, water quality, aquatic habitat, and storage); • The Osoyoos Lake Sediment Core project by UBC-O (establishing historic water quality information); • Rewatering of Quintal and Winters Oxbows by Osoyoos Oxbows Restoration Society (assessing the impacts to water quality for water entering Osoyoos); • Re-establishment of the Osoyoos Lake Association of Oroville (water quality monitoring); • Submittal of an International Watershed Initiative proposal by the Board to create a transboundary map of the Okanogan River Basin. 	Daniel Millar
4. New Business		
4.1	<p>Compliance with the IJC Orders in 2007-08</p> <p>Robert Kimbrough reported that during 2008, the Applicant (the State of Washington) has operated Zosel Dam consistent with the Commission's Orders of Approval. Details are provided in the attachment.</p> <p>Natural conditions caused the level of the lake to rise above 911.5 feet from May 19-25, 29-31, 2008. Ray Newkirk reported that the outlet gates in Zosel Dam were pulled completely out of the water during these two periods.</p>	Robert Kimbrough
4.2	<p>Status of works and maintenance at Zosel Dam</p> <p>Ray Newkirk advised that 2008 operations of Zosel Dam have been normal and uneventful. One log on the forebay boom broke free and was later repaired. Mr. Newkirk annually inspects the dam; however, to assure certainty he advised that the State will hire a neutral observer to thoroughly inspect the facility later in the year.</p>	Ray Newkirk
4.3	<p>Status of funding for the Plan of Study and initiation of the studies</p> <p>Earlier this summer, the Board completed statements of work for four priority studies: (#1) water levels during drought; (#4) water level impact on water quality; (#5) ecosystem requirements; and, (#6) climate change. Tom McAuley and Mark Colosimo reported that the Commission has \$80K on the Canadian side and \$100K on the US side for these initial studies. In addition, the State of Washington has agreed to run the contracts and provide some funding for the studies. Some of the reference material for the studies can come from British Columbia's ongoing Okanogan Water Supply Demand Project. The first four studies are expected to be complete in six to nine months, congruent with respective fiscal year ends.</p> <p>ACTION: The Board agreed to hold a conference call to sort out details on selecting contractors to complete the studies; determining what initial study will be funded by the Canadian</p>	Cynthia Barton

IJC Section, and deliverable dates for the first four studies.

ACTION: As financial considerations may dictate that a few of the remaining four studies are initiated earlier than planned, the Board asked the Secretaries to proceed quickly with preparation of statements of work.

The Board observed that the timing of the State's application for a replacement order will be significant with respect to the necessary IJC hearings and related preparation of the new order. For its part, the Board anticipates completing its eight studies by 2011, leaving the Commissioners about a year-and-a-half to consider the findings.

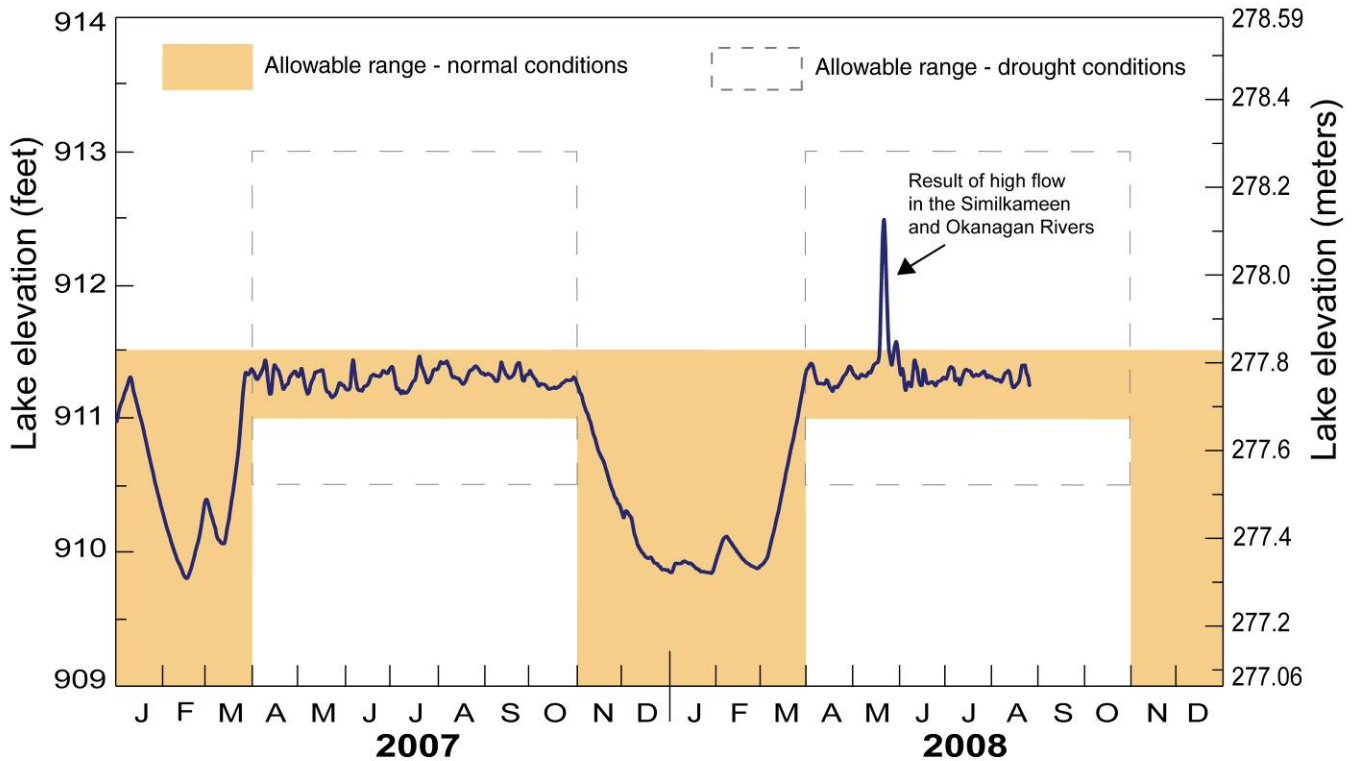
In an incidental note, Kris Kauffman inquired about the future makeup of the Board. Tom McAuley reported that the Commission will consider the institutional arrangements of the Board when preparing the 2013 Order.

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| 4.4 | One Watershed One Water Conference
(Kelowna, October 21 – 23) | Daniel Millar |
| | Daniel Millar advised that the Okanagan Basin Water Board and the Canadian Water Resources association are hosting an Okanagan Basin conference entitled "One Watershed—One Water" October 21 – 23, 2008, in Kelowna. Details of the conference may be found on the Internet: http://www.obwb.ca . Johnstone, Davidson, Symonds, Blaney, McAuley, Millar and Kimbrough all plan to attend. | |
| 4.5 | Field trip to lower Similkameen River Basin, Wednesday, Sept 10 | Robert Kimbrough |
| | Robert Kimbrough reviewed plans for the tour of Enloe Dam and Shanker's Bend on the Similkameen River. | |
| 5. | Preparation for Public Meeting | |
| 5.1 | Review of Agenda | Cynthia Barton |
| | Members noted that the evening meeting agenda should include a final item entitled 'questions and comments from the public'. | |
| 6. | Adjourn | |

Compliance with the IJC Orders in 2007-2008

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Osoyoos Lake elevation and allowable ranges in elevation, 2007-08.

Lake Elevation in 2007 and 2008

2007

- A drought was not declared in 2007 so the allowable range in lake elevation for normal conditions was in effect all year.
- The lake elevation was kept within the allowable range for normal conditions.

2008

- A drought was not declared in 2008 so the allowable range in lake elevation for normal conditions is in effect all year.
- High flow in the Similkameen and Okanagan Rivers caused the level of Osoyoos Lake to rise above 911.5 feet from May 19-25, 29-31, 2008.

Hydrologic Conditions in 2008 Compared to Drought Criteria

Drought Criteria	Actual value (preliminary)	Drought criteria met?
Total flow in the Similkameen River during April-July is less than 1 million ac-ft	1,221,200 ac-ft	No
Net inflow to Okanagan Lake during April-July is less than 195,000 ac-ft	306,390 ac-ft	No
Level of Okanagan Lake in June or July is less than 1,122.8 ft	1,123.77 ft	No

Summary of Drought Conditions

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Year	Drought Criteria Condition			Drought	
	(a) Similkameen River flow for April-July less than 1M ac-ft	(b) Okanagan Lake inflow for April-July less than 195,000 ac-ft	(c) Okanagan Lake elevation in June or July less than 1122.8 ft	Declared ?	Rescinded ?
1987	1,003,453	178,900	1123.11	Yes	Yes
1988	933,296	192,700	1122.32	Yes	
1989	1,060,974	296,700	1123.54		
1990	1,566,775	536,000	1124.90		
1991	2,299,868	479,100	1123.42		
1992	735,541	123,600	1121.87	Yes	
1993	938,989	458,300	1123.56	Yes	
1994	885,375	302,600	1123.39	Yes	
1995	1,305,004	368,400	1123.17		
1996	1,661,380	654,000	1124.07		
1997	1,946,984	863,100	1124.81		
1998	1,230,960	391,000	1123.47	Yes	Yes
1999	1,706,980	560,700	1123.39		
2000	1,070,039	431,200	1123.41		
2001	566,825	192,300	1122.72	Yes	
2002	1,546,158	417,900	1123.70		
2003	781,500	137,600	1122.46	Yes	
2004	1,143,082	269,000	1122.80	Yes	Yes
2005	622,400	328,900	1123.87	Yes	
2006	1,065,000	452,800	1123.90		
2007	1,372,200	390,000	1123.80		
2008	1,221,200	306,400	1123.77		

Since current Zosel Dam was completed in 1987

- Between 1987 - 2008, (22 years), drought has occurred in 8 years (36%)
- For those same years, drought has been declared 10 times, and thrice rescinded
- Condition (a) (Similkameen River) has been met 7 of 22 years (32%)
- Condition (b) (Okanagan Lake inflow) has been met 5 of 22 years (23%)
- Condition (c) (Okanagan Lake elevation) has been met 4 of 22 years (18%)

For the period of record for the Similkameen River (80 years, 1929-2008)

- Similkameen criteria has been met 19 of 80 years (24%)

