



# Central Utah Water Conservancy District

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October 29, 2009

Teresa Wilhelmsen, P.E.  
Regional Engineering Manager  
Utah Lake / Jordan River Area Office  
Utah Division of Water Rights  
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Subject: Water Year 2009 Administration of Central Utah Project, Bonneville Unit, Utah Lake / Provo River Storage Exchanges under CUP Water Right Nos. A40523, A36639, A37093, E398, E4319 and Central Utah Water Conservancy District Water Right Nos. E3100 and E3101

Dear Teresa:

The purpose of this letter is to comply with the November 1 deadline under the Utah Lake Distribution Plan, as amended, to report trans-basin imports, reservoir releases, and return flow credits claimed. Please note that to comply with the November 1 deadline; we are estimating values for part of October 2009, since these figures are not yet available. We also have not received all of the information needed to complete this report from the Provo River Commissioner or the Spanish Fork River Commissioner. Once this information has been provided to us we will finalize this report and resubmit it to you.

The Provo River Commissioner, Stan Roberts, has not, as of October 29, 2009, reported to the District the Provo River system storage that was stored under CUP water right A40523 in Jordanelle and Deer Creek reservoirs during water year 2009.

In early January 2009, it was evident that the level of Utah Lake would cross the conversion line. Therefore on March 27, 2009, a request was sent to your office requesting that all system storage in Jordanelle and Deer Creek reservoirs be converted to priority storage, once the line was crossed. In early April 2009, the level of Utah Lake crossed the conversion line. In accordance with the Utah Lake Distribution Plan, CUP

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system storage was converted to CUP priority storage and no CUP import water or CUP import water return flows, from Strawberry reservoir, were required to be exchanged for Provo River storage.

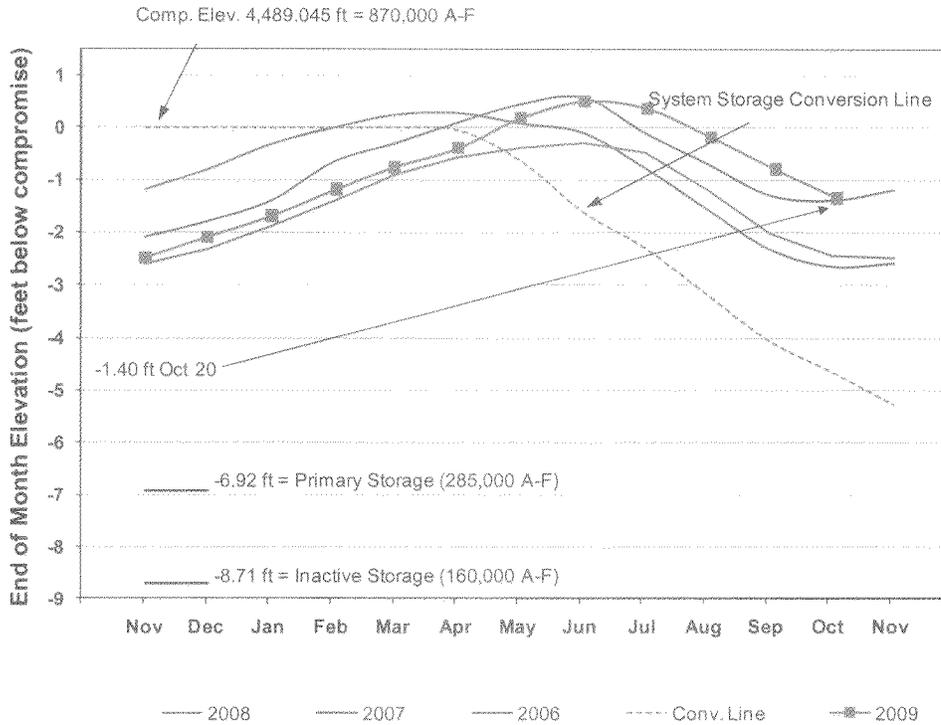
On approximately April 22, 2009, the level of Utah Lake exceeded the compromise elevation and the gates to the Jordan River were opened. By the end of May 2009, all CUP water stored in Utah Lake on a space available basis had spilled out of the lake. On approximately July 15, 2009, the level of Utah Lake dropped below the compromise level and space became available to begin storing CUP water.

Sources of CUP water in Utah Lake during water year 2009 (November 1, 2008 to October 31, 2009):

- 1) We claim that 35,601 acre-feet was carried over from water year 2008 in Utah Lake. At the beginning of water year 2004 CUWCD agreed to clear any previous balance in Utah Lake and start from zero.
- 2) We claim that water has been conveyed directly from Strawberry Reservoir to Utah Lake under A36639. A total of 22,309 acre-feet was conveyed to Utah Lake from November 1, 2008 through September 30, 2009. The amount anticipated to be conveyed during October 2009 is 3,100 acre-feet for a total of 24,321 acre-feet. We understand that this will be adjusted for incremental evaporation, even in current year accounting. Please let us know if this is incorrect. Adjustments for evaporation will be summarized later in this document.
- 3) We claim return flows from Strawberry Reservoir CUP irrigation deliveries made in South Utah County during water year 2009 under A36639. The amount of CUP water delivered for irrigation use in South Utah County for water year 2009 has not been reported to us by the Spanish Fork River Commissioner and is estimated to be 10,460 acre-feet. We claim 35 percent of this amount, 3,661 acre-feet, subject to incremental evaporation, be credited to CUP water in Utah Lake under A37093. In our accounting, we assumed for simplification that all return flow reaches the lake prior to November 1, 2009.

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## Utah Lake



Please see the tables on the following pages showing our calculations for the above including calculations for incremental evaporation, which we estimate in the amount of 962 acre-feet. Please note that for simplification, we have assumed return flows reach the lake the same month the water is delivered to agricultural lands. The total amount (carryover, direct, and return flow) claimed in Utah Lake, adjusted for incremental evaporation, is 5,313 acre-feet (includes estimate for October). We assume that this water is available for future uses or exchanges.

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**CUP Import Water in Utah Lake WY2009**

	Stawberry Res. Direct	Strawberry Res. CUP Ag.	35 Percent CUP Ag.	Less Incremental Evaporation	Total CUP Direct and Return Flow to Utah Lake	Total CUP Utah Lake Storage	
Time Period	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	35,601	*
Nov	3,115			-251	2,864	38,465	
Dec	3,152			-112	3,040	41,505	
Jan	3,152			-83	3,069	44,574	
Feb	2,857			-83	2,774	47,348	
Mar	3,153			-106	3,047	50,395	
Apr	2,980			-146	2,834	39,345	
May	2,012			0	2,012	0	
Jun	800	1,108	388	0	1,188	0	
Jul		5,067	1,773	-15	1,758	879	
Aug		4,285	1,500	-54	1,446	2,325	
Sep				-46	-46	2,279	
Oct	3,100			-66	3,034	5,313	
Total	24,321	10,460	3,661	-962	27,020		
* Carryover from WY2008 adjusted for incremental evaporation							

**Incremental Evaporation from CUP Import Water in Utah Lake WY2009**

		EOM Surface Area w/ CUP	EOM Surface Area w/o CUP	Incremental Increase in Surface Area	Incremental Evaporation kc=1.35	Incremental Evaporation
Time Period	Elevation feet bel. Comp.	Import Water acres	Import Water acres	acres	inches	acre-feet
Nov	-2.10	88,677	87,601	1,076	2.80	251
Dec	-1.70	89,692	88,512	1,180	1.14	112
Jan	-1.19	91,026	89,735	1,291	0.77	83
Feb	-0.77	92,158	90,767	1,391	0.72	83
Mar	-0.40	93,180	91,681	1,499	0.85	106
Apr	0.18	94,828	93,635	1,192	1.47	146
May	0.51	95,791	95,791	0	2.88	0
Jun	0.37	95,380	95,380	0	4.03	0
Jul	-0.18	93,798	93,772	26	6.92	15
Aug	-0.80	92,076	92,007	69	9.33	54
Sep	-1.35	90,602	90,536	66	8.30	46
Oct	-1.40	90,471	90,317	154	5.19	66

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### Water Available for CUP in Utah Lake

Category	acre-feet
Carryover from Water Year 2008	35,601
A36639 directly conveyed to Utah Lake for exchange under E398	24,321
A36639 return flow in south Utah County area for exchange under A37093 and E398	3,661
Less Incremental Evaporation Loss on the above	-962
Less CUP Water Spilled from Utah Lake	-57,308
E4319 - Used to lower Utah Lake Conversion Line	0
E3101 - Used to lower Utah Lake Conversion Line	0
E3100 - Used to lower Utah Lake Conversion Line	0
Total	5,313

When additional data becomes available this report will be updated and resubmitted to you. Please contact me if you have any questions.

Sincerely yours,



Jared D. Hansen, P.E.  
Project Manager

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