



CENTRAL UTAH WATER
CONSERVANCY DISTRICT

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October 31, 2019

Ross Hansen, P.E.
Regional Engineer
Utah Lake / Jordan River Area Office
Utah Division of Water Rights
1594 West North Temple, Suite 200
P.O. Box 146300
Salt Lake City, Utah 84114-6300

Subject: Water Year 2019 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 Ross:

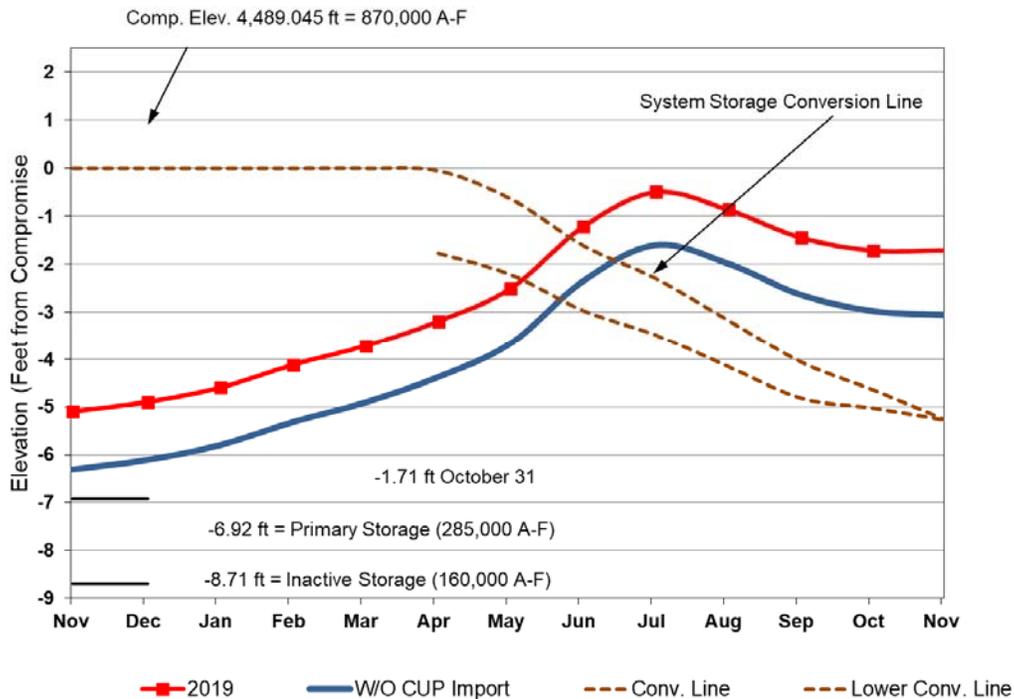
The purpose of this letter is to provide a report of CUP trans-basin imports, reservoir releases, and return flow credits claimed in Utah Lake. Please note that to comply with the November 1 deadline; we are estimating values for October, 2019, since these figures are not yet available. We also have not received all of the information needed to verify this report from the Spanish Fork River Commissioner. Once this information has been provided to us, and if required, we will update this report and resubmit it to you.

In early 2019, it appeared that the level of Utah Lake would not cross the conversion line. Therefore, on March 26, 2019, a request was sent to your office requesting exchanges E4319, E3100 and E3101 not be used to lower the Utah Lake conversion line in accordance with the Utah Lake Distribution Plan and that those exchanges be used for direct exchange. However, with the wet and cool spring Utah Lake levels rose well passed the conversion line and system storage converted sometime in the middle of June 2019. In accordance with the Utah Lake Distribution Plan, CUP 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.

Sources of CUP water in Utah Lake during water year 2019 (November 1, 2018 to October 31, 2019):

- 1) We claim that 93,423 acre-feet of import water under application A36639, was carried over from water year 2018, subject to incremental evaporation, in Utah Lake.
- 2) We claim that water has been conveyed directly from Strawberry Reservoir to Utah Lake under A36639. A total of 31,656 acre-feet was conveyed to and stored in Utah Lake from November 1, 2018 through October 31, 2019. We are estimating the volume conveyed for the last few days of October. We understand that this will be adjusted for incremental evaporation, even in current year accounting. 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 2019 under A36639 in the amount of 2,836 acre-feet. The amount of CUP water, delivered for irrigation use in South Utah County for October 2019 has not been completely reported to us by the Spanish Fork River Commissioner. When these values are reported to us we will then claim 35 percent of this amount, subject to incremental evaporation, be credited to CUP water in Utah Lake under A37093.

Utah Lake



Please see the following tables showing our calculations for the above including calculations for incremental evaporation, which we estimate in the amount of 11,981 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 import water amount (carryover, direct, and return flow) claimed in Utah Lake, estimated for the end of the water year, and adjusted for incremental evaporation, is 118,629 acre-feet.

CUP Import Water in Utah Lake WY2019

	Stawberry Res.	Strawberry Res.	35 Percent		Total	Total	
	Direct	CUP Ag.	CUP Ag.	Less	CUP Direct and	CUP Utah Lake	
	CUP Release to	Delivery to	Return Flow	Incremental	Return Flow	Storage	
	Utah Lake	S. Utah County	to Utah Lake	Evaporation	to Utah Lake		
Time Period	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	93,423 *	
Nov	1,350			-939	411	93,834	
Dec	1,395			-377	1,018	94,852	
Jan	1,395			-248	1,147	95,999	
Feb	1,260			-227	1,033	97,032	
Mar	1,422			-261	1,161	98,193	
Apr	1,470			-391	1,079	99,272	
May	1,760			-779	981	100,253	
Jun	1,451		0	-969	482	100,735	
Jul	1,480	4,313	1,509	-1,732	1,257	101,992	
Aug	7,445	6,479	2,268	-2,452	7,261	109,253	
Sep	9,491	4,032	1,411	-2,294	8,608	117,861	
Oct ** Estimate	2,189	40	14	-1,435	768	118,629	
Total	32,108	14,864	5,202	-12,104	25,206		

* Carryover from WY2018 adjusted for incremental evaporation

Incremental Evaporation from CUP Import Water in Utah Lake WY2019

		EOM	EOM			
		Surface Area	Surface Area	Incremental	Incremental	
	EOM	w/ CUP	w/o CUP	Increase in	Evaporation	Incremental
	Elevation	Import Water	Import Water	Surface Area	kc=1.35	Evaporation
Time Period	feet bel. Comp.	acres	acres	acres	inches	acre-feet
Nov	-4.90	80,498	76,473	4,025	2.80	939
Dec	-4.60	81,477	77,510	3,967	1.14	377
Jan	-4.12	83,023	79,161	3,861	0.77	248
Feb	-3.72	84,289	80,506	3,783	0.72	227
Mar	-3.20	85,912	82,228	3,683	0.85	261
Apr	-2.51	87,665	84,472	3,193	1.47	391
May	-2.53	87,617	84,370	3,247	2.88	779
Jun	-1.16	91,105	88,220	2,885	4.03	969
Jul	-0.40	93,180	90,177	3,003	6.92	1,732
Aug	-0.91	91,777	88,623	3,154	9.33	2,452
Sep	-1.50	90,210	86,893	3,316	8.30	2,294
Oct ** Estimate	-1.71	89,666	86,349	3,317	5.19	1,435

Water Available for CUP in Utah Lake

Category	acre-feet
Import from Water Year 2018	93,423
A36639 directly conveyed to Utah Lake for exchange under E398	32,108
A36639 return flow in south Utah County area for exchange under A37093 and E398	5,202
Less Incremental Evaporation Loss on the above	-12,104
Total CUP import water in Utah Lake available for Exchange	118,629
E4319	7,900
E3101	16,862
E3100	57,073
Total Available for Exchange under E4319, E3100, E3101	81,835
CUP System Storage in Jordanelle and Deer Creek Reservoirs as of October 30 - Estimated	106,502
CUP System Storage in Jordanelle and Deer Creek Reservoirs Released to the Provo River	20,464
Amount remaining for Exchange under E4319, E3100, E3101	-4,203
Total CUP import water in Utah Lake available for Exchange	118,629
CUP Import Water in Utah Lake Required for Provo River Storage Exchange	0
Total CUP import water in Utah Lake available for Exchange	118,629

When data for the water year is finalized and if necessary this report will be updated and resubmitted to you. Please contact me if you have any questions or need additional data.

Sincerely yours,



Rachel Musil, P.E.
Water Rights Manager

RM:

- cc: Kent Jones – State Engineer
 Scott Bergendorf – Provo River Commissioner
 Ed Vidmar – Spanish Fork River Commissioner
 John Larsen – Utah Lake/Jordan River Commissioner
 Mike DeVries – Metropolitan Water District of Salt Lake and Sandy
 Richard Bay – Jordan Valley Water Conservancy District
 Keith Denos – Provo River Water Users Association
 Wayne Pullan – U.S. Bureau of Reclamation
 John Mann – U.S. Bureau of Reclamation
 Reed Murray – U.S. Department of Interior