

WATER OPERATIONS SUMMARY FOR SEPTEMBER 2018

October 2, 2018

General Operations

During the month of September, the South Well operated for approximately 26 days, operating all 24 hours per day for most of these run days. The average flow rate when running was approximately 255 GPM and a total of approximately 10.01 million gallons was delivered to the HEB irrigation pond. During the periodic shut offs, the static water level would recover from approximately 105 feet up to 265 feet. Recovery periods were short due to summer irrigation demands although short rainy stretches did allow the wells to recover some.

The North Well operated for approximately 28 days, operating all 24 hours per day for most of these run days. The average flow rate was approximately 135 GPM and a total of approximately 4.89 million gallons was delivered to the HEB irrigation pond. During periodic shut offs when the well wasn't needed, the static water level would recover from approximately 105 feet to 260 feet. Recovery periods were short due to summer irrigation demands although short rainy stretches did allow the wells to recover some. The ECCV line is still not available to HEB.

The Buchanan Tap was operated this month to supplement the North and South Well due to the ECCV Line being unavailable. It delivered approximately 1,648,250 gallons this month.

Action Items

Board Meeting, Non-Potable Line, and ECCV

Date	Status Update
9/27/2018	Tom and Brit met with Roe, members from Aurora Water, and a member of Carollo Engineering to discuss and explore connections of the non-potable water line to HEB and Saddle Rock.
9/20/2018	Tom attended monthly board meeting to update the board on current operations.
9/17/2018	Brit called Glen Bedell on Monday morning, as per his request to check back in around the second half of September, to check on the status of the ECCV line. Glen stated that they would still be unable to provide water until at least early October and to call back a few days into the next month.

Analog Data Fixes and South Well Operations

Date	Status Update
9/21/2018	Tom cleared debris off of South Well fan; suspected to have lead to overheating.
9/13/2018	Brit switched the radios at both wells to ensure there is a signal issue rather than a radio issue. Both radios work well at the opposite well and the signals remain unchanged, confirming it is not a radio issue.
9/07/2018	Branches were cut; signal improved a small amount (to about 101 dBm) however not to the extent hoped for. Continued exploration of alternative options for improving signal
9/05/2018	Mike Richardson came out to re-inspect analog issue this morning. Brit came out with Mike Shanaman later that day. Mike Shanaman checked the issue with the 30-minute offset on the wells with Brit overseeing the issue; Brit also took pictures for Mission Control and inspected the South Well in an attempt to see why the signal has dropped so much since January, 2018

and in particular since August 1st, 2018. Global restart set; the 30-minute offset for the timer is believed to be fixed. The source of the signal issue was likely identified; a series of branches has grown in front of the antenna over the last 8-12 months. All other aspects of the signal receiver appear to be okay. The branches will be cut and the signal will be checked shortly after to confirm this suspicion.

Utility Notification Center of Colorado (UNCC)

In the month of September, TZA responded to 83 utility locate tickets.

Water Usage

PLEASE NOTE: This section is current through October 2nd, 2018. An updated draft will be sent once invoices are received for the month of September. Water Usage data is collected from invoices received from Xcel Energy and Aurora Water. For historical water usage, please refer to Table 1 as well as Figure 1 and Figure 2. For monthly water usage and billing for 2018, refer to Table 2.

Table 1 – Historic Annual Water Usage, to Date

Year	North Well		South Well		ECCV Line, Buchanan Tap, Aurora Pkwy Tap		Total
	kgal	%	kgal	%	kgal	%	kgal
2011	29,408	37	38,888	48	12,273	15	80,569
2012	25,416	28	55,493	61	10,368	11	91,277
2013	26,223	38	38,791	55	4,982	7	69,996
2014	18,472	33	33,808	60	4,036	7	56,316
2015	20,510	30	37,999	57	8,650	13	67,159
2016	21,569	25	55,478	63	10,824	12	87,871
2017	21,277	31	33,884	49	14,097	20	69,258
2018	22,280	28	49,553	62	8,101	10	79,934
Average (2010-2017)	23,268	32	42,049	56	9,319	12	74,635

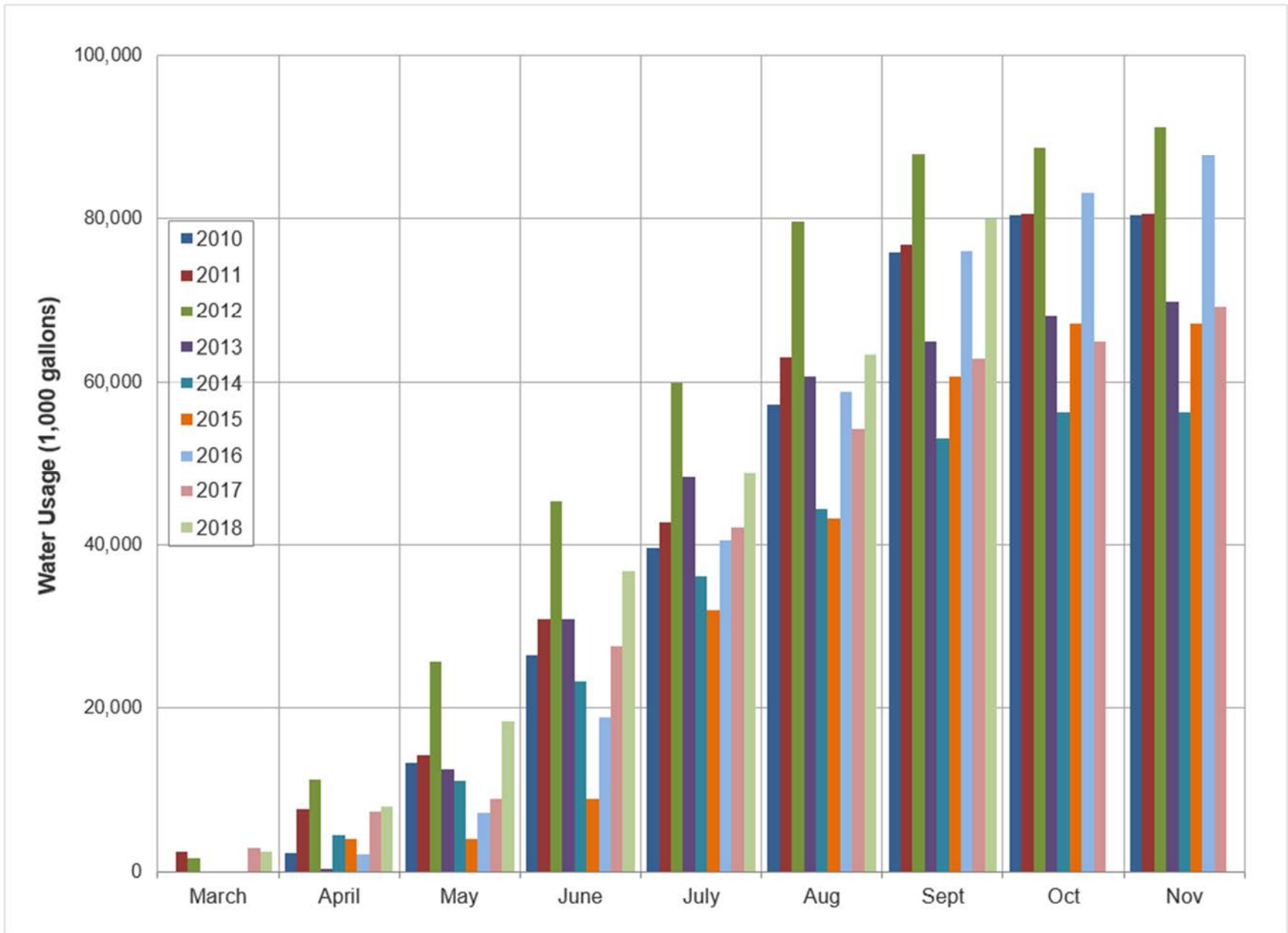


Figure 1 – Current and Historic Cumulative Annual Water Usage (2010 - September 2018)

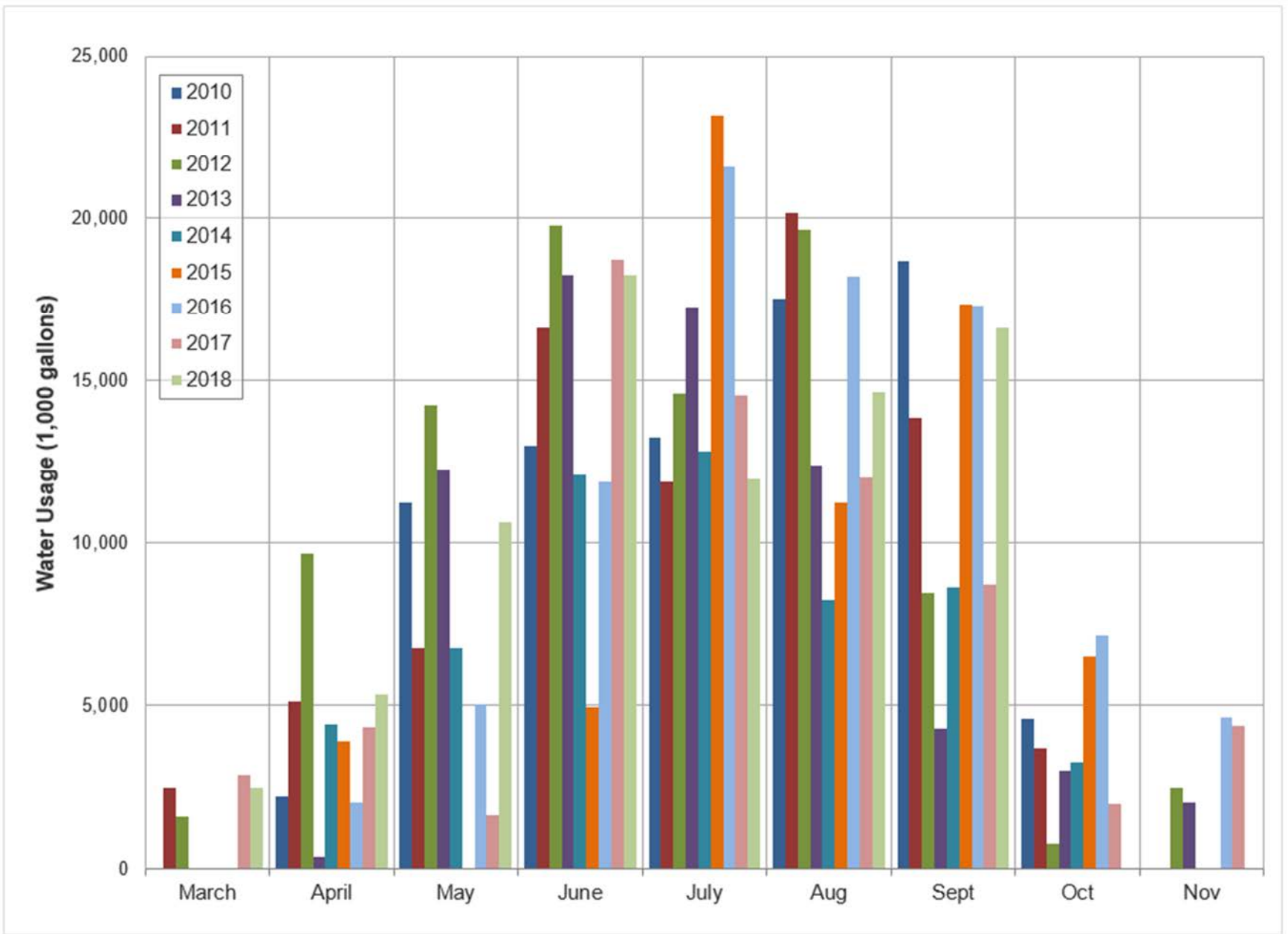


Figure 2 – Current and Historic Monthly Water Usage (2010 - September 2018)

Table 2 – Monthly water usage and billing for Eagle Bend Metro District January - September 2018

Eagle Bend Water and Energy Utilities (2018) - through September 2018														
Service Month (nominal)	Initial	January	February	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	YTD
Meter Reads														
North Well	7,292	7,292	7,292	7,292	7,292	10,805	16,104	19,811	24,421	29,572				
South Well	12,031	12,031	12,031	14,487	19,804	26,874	36,503	43,134	51,736	61,584				
ECCV	11,109	11,109	11,109	11,109	11,109	11,109	13,360	13,360	13,360	13,360				
Aurora (Buchanan Way)	25,297	25,297	25,297	25,297	25,297	25,297	26,287	27,814	29,139	30,697				
Aurora (Aurora Pky)	5,484	5,484	5,484	5,484	5,521	5,586	5,670	5,761	5,857	5,934				
kgal														
North Well		0	0	0	0	3,513	5,299	3,707	4,610	5,151				22,280
South Well		0	0	2,456	5,317	7,070	9,629	6,631	8,602	9,848				49,553
ECCV		0	0	0	0	0	2,251	0	0	0				2,251
Aurora (Buchanan Way)		0	0	0	0	0	990	1,527	1,325	1,558				5,400
Aurora (Aurora Pky)		0	0	0	37	65	84	91	96	77				450
Total - kgal		0	0	2,456	5,354	10,648	18,253	11,956	14,633	16,634				79,934
Total - af		0.0	0.0	7.5	16.4	32.7	56.0	36.7	44.9	51.0				245.3
COA Billing*														
* Late fees not included														
North Well	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,587.59	\$2,278.57	\$1,594.01	\$1,982.30	\$2,214.93				\$9,580.40
South Well	\$0.00	\$0.00	\$0.00	\$1,056.08	\$2,286.31	\$3,040.10	\$4,140.47	\$2,851.33	\$3,698.86	\$4,234.64				\$21,307.79
ECCV	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,586.48	\$0.00	\$0.00	\$0.00				\$14,586.48
Aurora (Buchanan Way)	\$0.00	\$65.82	\$65.82	\$65.82	\$65.82	\$65.82	\$6,768.12	\$10,403.61	\$9,036.07	\$10,613.48				\$37,150.38
Aurora (Aurora Pky)	\$0.00	\$17.07	\$17.07	\$17.07	\$267.56	\$457.12	\$585.75	\$633.14	\$666.99	\$538.36				\$3,200.13
Total	\$0.00	\$82.89	\$82.89	\$1,138.97	\$2,619.69	\$5,073.63	\$28,359.39	\$15,482.09	\$15,384.22	\$17,601.41				\$85,825.18
Xcel Energy Billing														
North Well	\$803.92	\$401.89	\$399.15	\$401.96	\$396.56	\$3,718.65	\$4,895.74	\$4,046.84	\$4,356.36	\$4,937.27				\$24,358.34
South Well	\$7,299.22	\$535.80	\$541.27	\$3,649.61	\$4,538.60	\$5,099.28	\$6,315.49	\$5,132.85	\$5,560.61	\$6,540.25				\$45,212.98
Total	\$8,103.14	\$937.69	\$940.42	\$4,051.57	\$4,935.16	\$8,817.93	\$11,211.23	\$9,179.69	\$9,916.97	\$11,477.52				\$69,571.32
Xcel \$/kgal (approx., some time lag)														
North Well	\$0.00	-	-	-	-	\$1.06	\$0.92	\$1.09	\$0.94	\$0.96				\$1.09
South Well	\$0.00	-	-	\$1.49	\$0.85	\$0.72	\$0.66	\$0.77	\$0.65	\$0.66				\$0.91
Combined	\$0.00	-	-	\$1.65	\$0.85	\$0.72	\$0.75	\$0.89	\$0.75	\$0.77				\$0.97
HOA Billing	\$0.00	\$0.00	\$0.00	\$31,754.00	\$39,872.24	\$54,543.30	\$87,909.46	\$64,383.36	\$70,953.17	\$77,316.20				\$426,731.73
Net to District	\$0.00	-	-	\$26,563.46	\$32,317.39	\$40,651.74	\$48,338.84	\$39,721.58	\$45,651.98	\$48,237.27				\$281,482.26
Credit towards ECCV SL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,791.85	\$0.00	\$0.00	\$0.00				\$9,791.85