

MONTHLY SUMMARY – Eagle Bend Water Supply – July 22, 2013

Operations

The Daily Flows Table (thru July 21st) and General Summary Table are attached. Usage thru July is anticipated to be greater than 2010 and 2011, but less than 2012. Flow totals shown in the General Summary Table and those in the Daily Flow Table will differ a bit due to different meter reading dates.

The wells have been running continuously with current rates of about 170 gallons per minute for the North Well (down from about 180 gpm) and 260 gpm for the South Well (which is running at full speed); both with modest and sustainable drawdowns of water level. There has only been one occurrence of the “Input Phase Fault” shut down of the North Well; with manual reset solving the problem without difficulty. We installed an exhaust vent for the North Well enclosure and are almost done with the sump pump installation. I still want to install an inlet air filter that will prevent the migration of moisture into the enclosure; have the filters in hand and need to get some sheet metal work done.

We have drawn about 4½ million gallons from the ECCV Service Line so far this year; as tabulated below (with a slight variation from the actual billed amounts due to my use of estimated gpm flow rates). Due to rains on July 13th, we cut the most recent draw from the ECCV Service Line from 1 ½ to 2 million gallons to only ½ MG.

ECCV Valve Operation							
Open		Close				Approx. hrs	Approx
Date	Time	Date	Time	Turns	ECCV gpm	Time Open	Gallons
5/29/2013	12:12	6/1/2013	21:20	10?	378	81.1	1,842,051
6/13/2013	12:17	6/17/2013	9:17	10?	387	93.0	2,159,460
7/13/2013	11:22	7/14/2013	9:37	10?	387	22.3	516,645
						Total	4,518,156

Director Coker provided Aurora Water personnel a letter concerning our continued long term ability to utilize the ECCV Service Line and encouraging them to advocate on the District’s behalf during discussions whereby ECCV’s Western Pipeline might be used as one component of the “WISE” infrastructure whereby several south metro communities (e.g., Castle Rock, Parker, Meridian, Inverness, the Pinery, Rangeview, Sterling Ranch/Dominion, Stonegate) will obtain renewable water deliveries from Aurora and Denver Water Board water rights starting in 2016.

There have been no overflow events at the Fairway #4 pond so far this year. Once again, I appreciate the heads up text messages or Emails from Directors Arellano and Rexroat when there is heavy rain occurring at the site as this prompts me to monitor the Fairway 4 pond water level a bit more carefully and adjust operations accordingly.

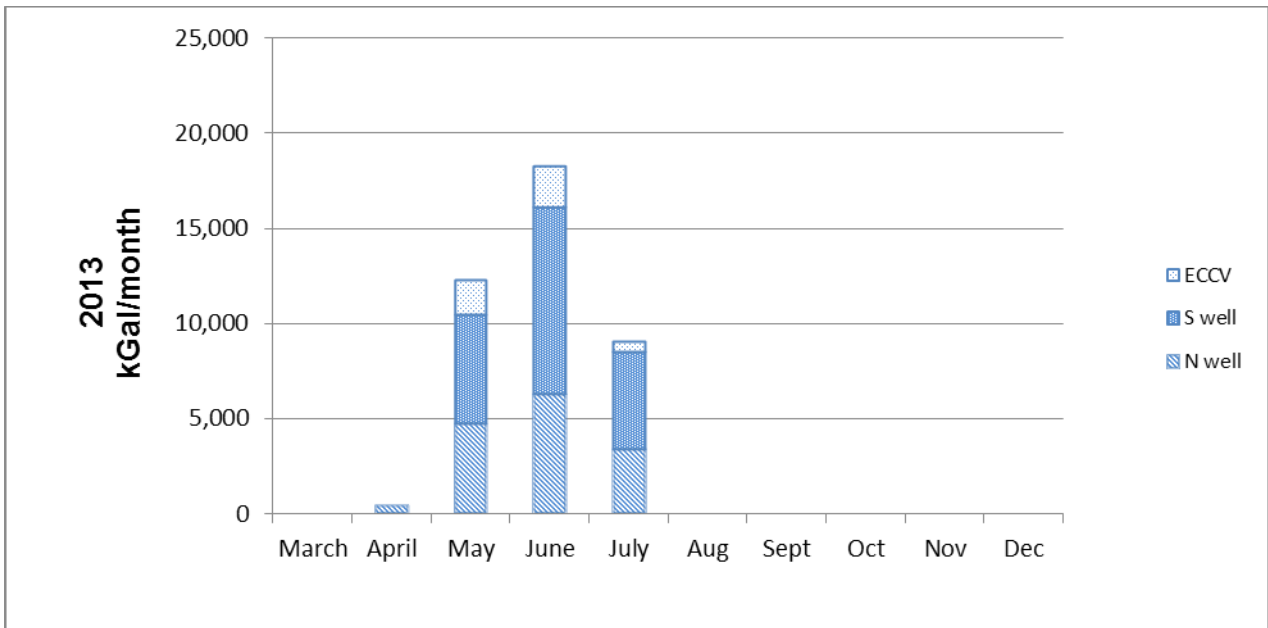
We experienced a failure of the radio telemetry between the South and North Wells. The problem was solved by installing the spare radio transceivers that we had purchased a couple of years ago. Director Rexroat advised that the problem was likely exacerbated by the elevated heat in the VFD cabinets (which shortens the life expectancy of electrical equipment) and he directed us to obtain another set of spares radios since the old units which were replaced were most likely prone to repeated future failure due to heat damage. Ventilation improvements at the North Well enclosure should help reduce future problems. Estimated cost of about \$2,500 for the spare units.

I provided the cellular alarm dialer and accessories (data logger, antenna with lightning arrestor) to Cross Diamond Electric for their installation at the dewatering sump pump and will coordinate startup of this equipment with them.

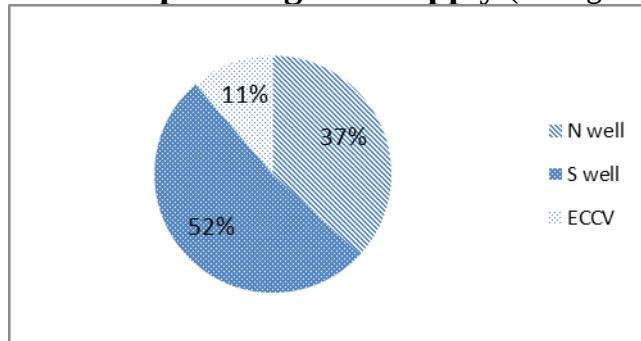
I remain available to discuss any questions. Scott Lehman (303)292-3456 Cell (303)668-9546

<u>Start Date</u>	<u>North Well Flow (gallons)</u>	<u>South Well Flow (gallons)</u>	<u>ECCV (gallons)</u>	<u>Rainfall (inches)</u>	
6/1/2013	177,177	249,540	484,400	0.00	
6/2/2013	9,904	13,296	0	0.00	
6/3/2013	206,430	292,202	0	0.00	
6/4/2013	221,025	325,764	0	0.23	
6/5/2013	244,024	372,327	0	0.02	
6/6/2013	242,977	370,926	0	0.00	
6/7/2013	243,000	370,292	0	0.00	
6/8/2013	120,650	183,272	0	0.00	
6/9/2013	27,263	40,533	0	0.00	
6/10/2013	189,663	371,511	0	0.00	
6/11/2013	205,598	371,148	0	0.00	
6/12/2013	205,596	374,302	0	0.00	
6/13/2013	261,420	385,237	266,000	0.00	
6/14/2013	206,379	384,903	544,900	0.00	
6/15/2013	211,092	384,597	544,900	0.00	
6/16/2013	261,097	384,554	544,900	0.00	
6/17/2013	259,690	275,256	210,800	0.00	
6/18/2013	259,157	385,708	0	0.00	
6/19/2013	200,209	383,494	0	0.00	
6/20/2013	259,086	380,989	0	0.00	
6/21/2013	225,567	331,129	0	0.00	
6/22/2013	0	0	0	0.00	
6/23/2013	0	0	0	0.23	
6/24/2013	0	0	0	0.00	
6/25/2013	0	0	0	0.00	
6/26/2013	71,524	172,586	0	0.00	
6/27/2013	96,820	142,098	0	0.00	
6/28/2013	203,096	297,996	0	0.53	
6/29/2013	160,868	236,855	0	0.00	
6/30/2013	0	0	0	0.19	Total gal.
May Totals	4,769,312	7,480,515	2,595,900	1.20	14,845,727
7/1/2013	258,778	381,905	0	0.06	
7/2/2013	255,881	380,194	0	0.00	
7/3/2013	255,195	380,228	0	0.00	
7/4/2013	253,392	380,196	0	0.00	later meter read by Aurora Water
7/5/2013	253,057	380,212	0	0.01	due to July 4th
7/6/2013	252,974	380,255	0	0.00	
7/7/2013	254,067	380,278	0	0.00	
7/8/2013	254,722	380,171	0	0.00	
7/9/2013	255,074	380,197	0	0.00	
7/10/2013	255,458	380,249	0	0.01	
7/11/2013	255,259	380,114	0	0.02	
7/12/2013	254,712	380,130	0	0.01	
7/13/2013	227,928	343,188	293,300	0.11	
7/14/2013	203,720	320,873	223,300	0.11	
7/15/2013	214,659	339,830	0	0.10	
7/16/2013	0	0	0	0.00	
7/17/2013	8,922	13,068	0	0.00	
7/18/2013	207,700	329,008	0	0.00	
7/19/2013	236,172	375,391	0	0.00	
7/20/2013	233,604	373,241	0	0.00	
7/21/2013	231,952	372,289	0	0.00	Total gal.
July month to date	4,623,226	7,031,017	516,600	0.43	12,170,843

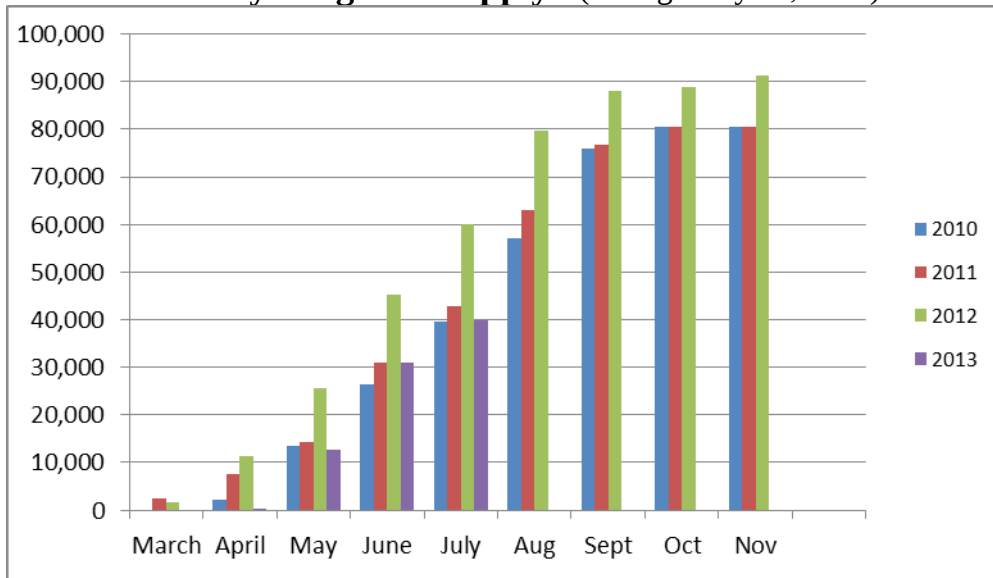
TOTAL IRRIGATION SUPPLY (through July 21, 2013)



Year to date makeup of irrigation supply (through July 21, 2013)



Monthly Irrigation supply (through July 21, 2013)



Partial data - Thru July 21, 2013

Eagle Bend - 2013							
Service Month (nominal)	<u>Initial</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>YTD</u>
Meter Reads							
North Well	101380	0	390	5105	11361	1	
South Well	18163	18163	18163	23888	33756		
ECCV	37974	37974	37974	39816	41975		
Aurora Potable	25297	25297	25297	25297	25297		
kgal							
North Well		0	390	4,715	6,256	3,347	14,708
South Well		0	0	5,725	9,868	5,128	20,721
ECCV		0	0	1,842	2,159	517	4,518
Aurora Potable		0	0	0	0	0	0
Total - kgal		0	390	12,282	18,283	8,992	39,947
Total - af		0.0	1.2	37.7	56.1	27.6	122.6
COA Billing (2 months)							
North Well	\$0.00	\$0.00	\$163.80	\$1,980.30	\$2,627.52		\$4,771.62
South Well	\$0.00	\$0.00	\$0.00	\$2,404.50	\$4,144.56		\$6,549.06
ECCV	\$0.00	\$0.00	\$0.00	\$11,936.16	\$13,990.32		\$25,926.48
Aurora Potable	\$87.14	\$43.57	\$43.57	\$43.57	\$43.57		\$261.42
Total	\$87.14	\$43.57	\$207.37	\$16,364.53	\$20,805.97		\$37,421.44
Xcel Energy Billing (2 months)							
North Well	\$814.33	\$2,409.16	\$2,554.18	\$4,366.01	\$5,425.94		\$15,569.62
South Well	\$1,093.64	\$540.27	\$543.30	\$4,335.04	\$7,173.36		\$13,685.61
Total	\$1,907.97	\$2,949.43	\$3,097.48	\$8,701.05	\$12,599.30	\$0.00	\$27,347.26
Xcel \$/kgal (approx., some time lag)							
North Well			\$6.55	\$0.93	\$0.87	\$0.00	\$1.37
South Well				\$0.76	\$0.73	\$0.00	\$0.88
Combined			\$7.94	\$0.83	\$0.78	\$0.00	\$1.09
HOA Billing	\$22,000.00	\$22,000.00	\$23,006.20	\$53,687.56	\$69,170.14	\$45,199.36	\$235,063.26
Net to District	\$0.00	\$19,007.00	\$19,701.35	\$28,621.98	\$35,764.87	\$45,199.36	\$148,294.56
Credit towards ECCV SL	\$0.00	\$0.00	\$0.00	\$8,012.70	\$9,391.65	\$2,248.95	\$19,653.30

thru last full month

towards facilities funding