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RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES **DATE:** FEBRUARY 12, 2018

GENERAL MANAGER'S REPORT

ITEM NO: 15

Riverside Public Utilities
Drought and Conservation Efforts / Groundwater Level Update
As of
December 2017

Conservation Efforts

For the month of December 2017, Riverside resident's water conservation went down by 16% as compared to December 2013 (4,320 acre-feet (AF) of urban water production in December 2013 vs 5,024 AF in December 2017).

Cumulatively RPU is at 12% reduction from June 2016 through December 2017 as shown in Figure 1. This translates to 13,851 AF (4,513 million gallons) of potable water being conserved.

For the 2017 calendar year, RPU's urban water production was 64,154 AF. This is an increase from last year by almost 5,000 Acre-feet or about 8%. Despite this year's increase in urban water production, RPU's production is still within the historical production range from 2013 to 2016 as shown in Figure 2. Figure 2 also shows that RPU's urban water production is below the compliance target specified in SB X7-7 (i.e. 20% reduction by 2020) and RPU's current potable water rights.

Basin Groundwater Levels

Groundwater levels in the Bunker Hill, Rialto-Colton, and Riverside North basins are continuing to show a long-term declining trend, while groundwater levels in the Riverside South Basin remain relatively stable as shown in Figure 3. Groundwater levels in the Bunker Hill Basin are continuing to rebound from summer pumping; however, water levels remain approximately 16.7 feet lower as compared to December of last year. Water levels in the Rialto-Colton and Riverside North basins are 5.3 and 15.9 feet lower as compared to December of last year, respectively. In addition, water levels in the Riverside North basin are 6 feet lower this month as compared to November, likely resulting from the lack of rainfall and replenishing storm flows. The Riverside South basin is 1.9 feet lower as compared to December of last year.

Figure 1: RPU Total Urban Water Production Percent Saving During Mandatory Conservation Starting June 2016 Compared to 2013 Baseline

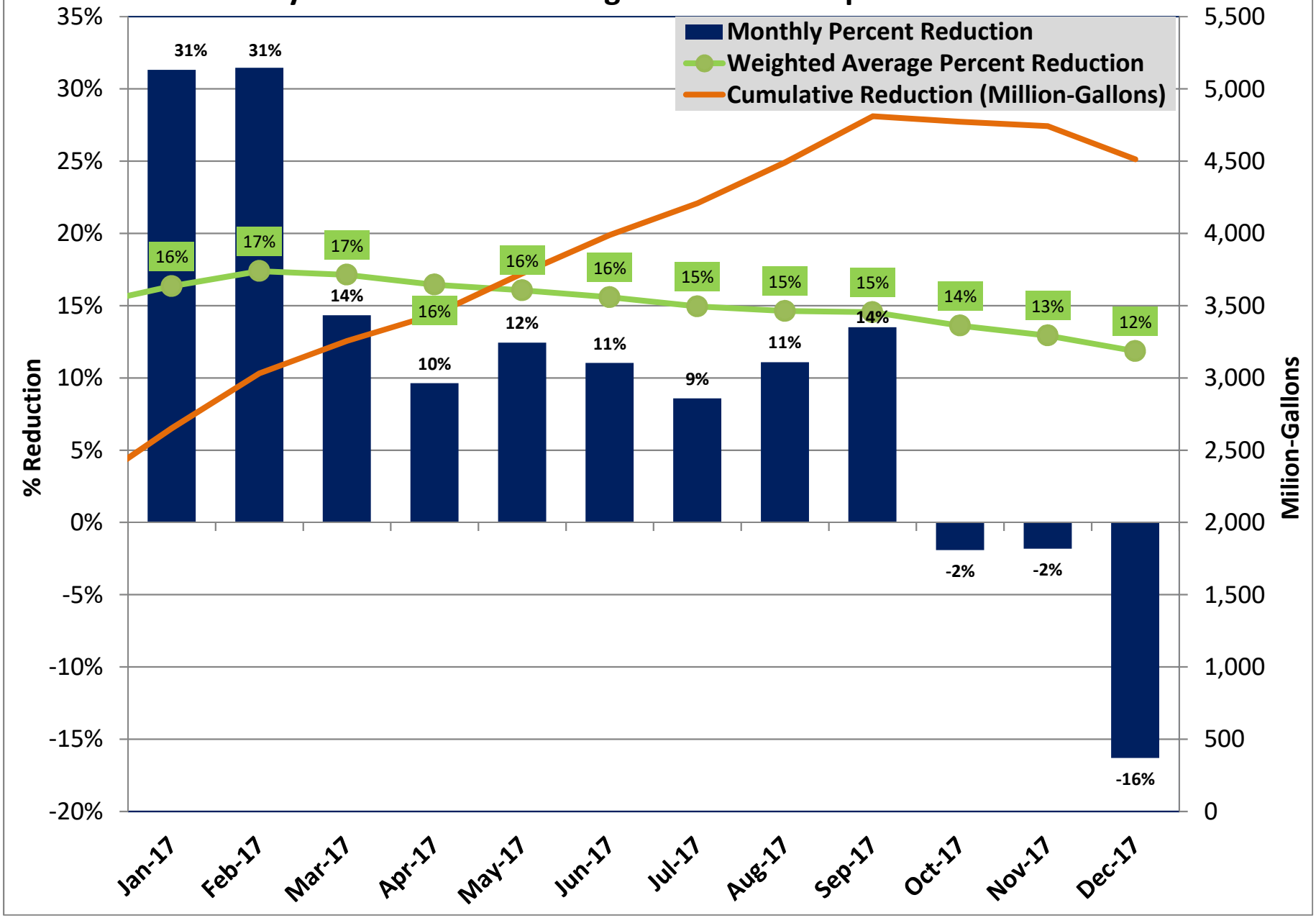
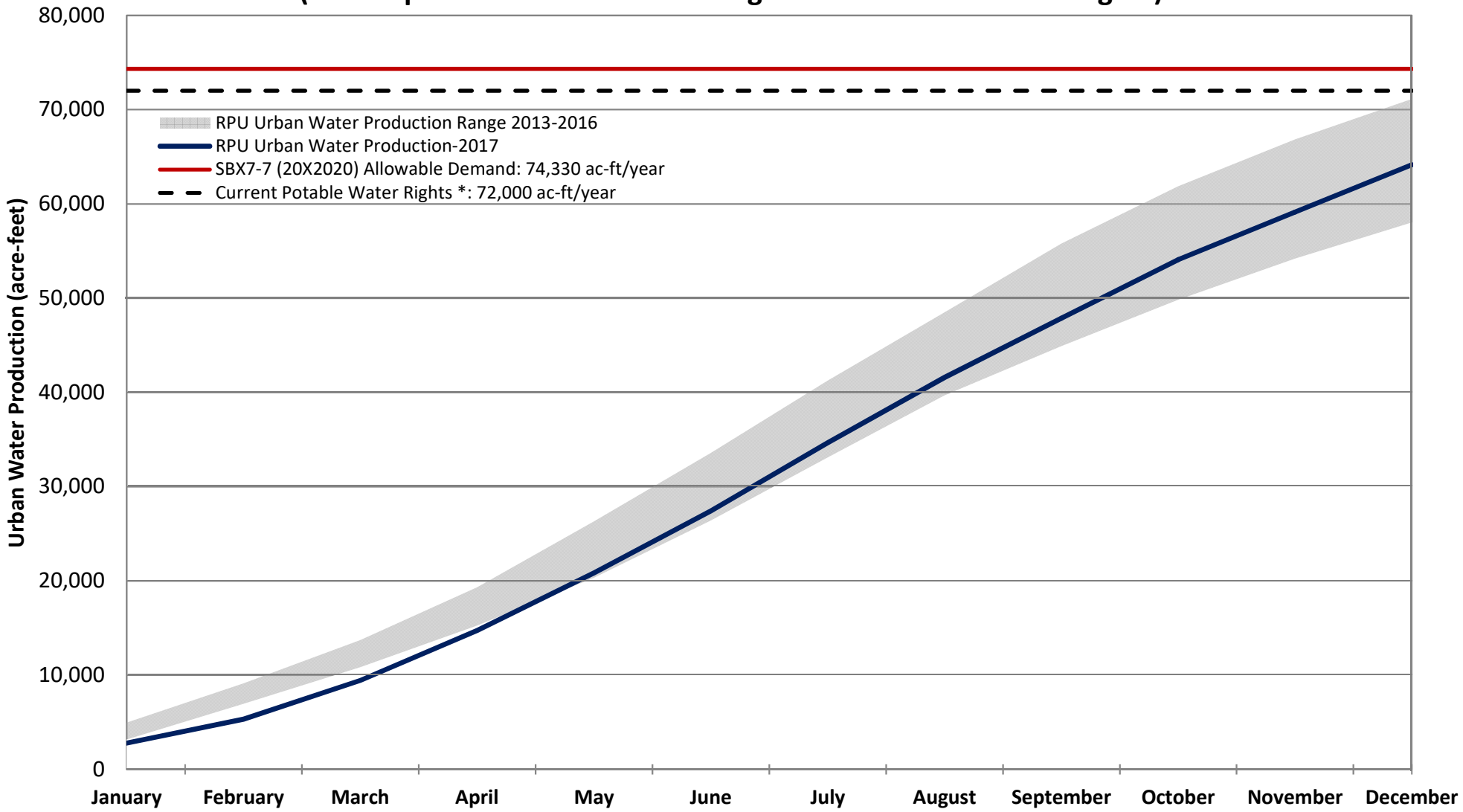


Figure 2: Annual RPU Urban Water Production

(as Compared to Conservation Target and Available Water Rights)



* Current Potable Water Right is the total current RPU Production rights minus all non potable obligations (85,774 - 12,000(Gage Canal) - 875(WMWD) - 900(Overlying Uses) = 72,000 ac-ft/year).

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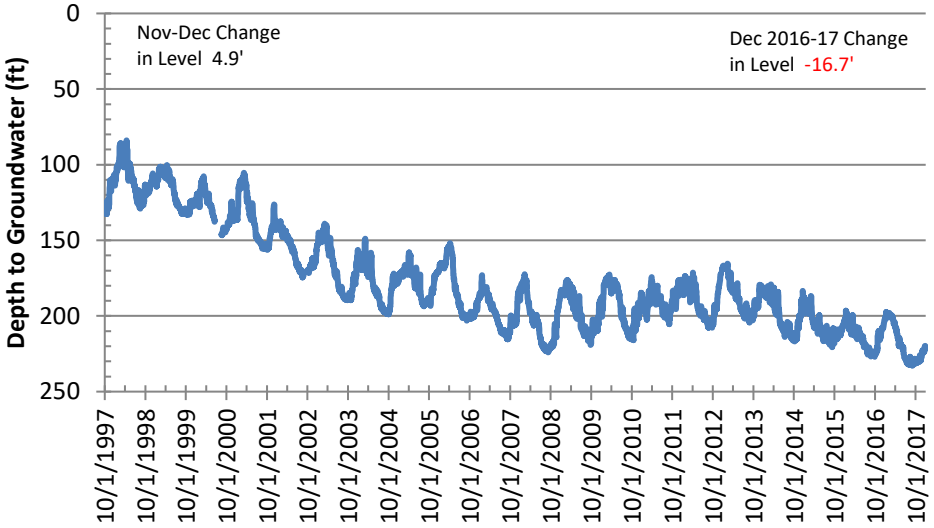
Figure 3: Basin Groundwater Levels

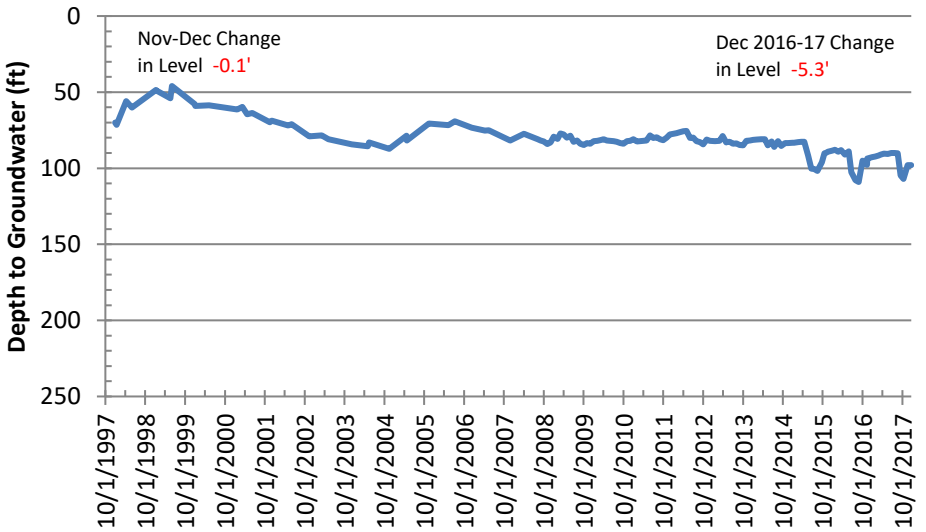
Bunker Hill Basin

Sierra High School (USGS)



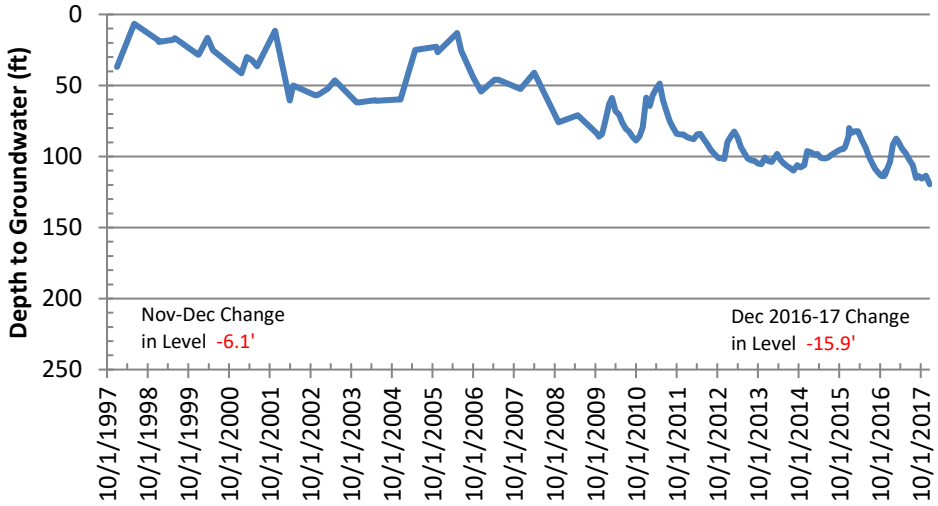
Rialto-Colton Basin

Johnson 1



Riverside North Basin

Flume 5



Riverside South Basin

Cunningham

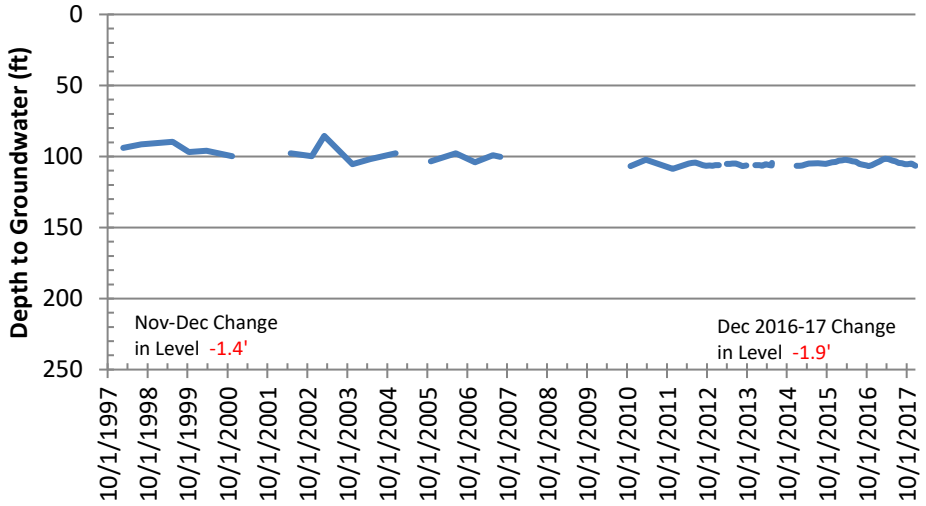


Figure 4: Basin Groundwater Levels