



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: OCTOBER 22, 2018

GENERAL MANAGER'S REPORT

ITEM NO:

Summary of Riverside Public Utilities Urban Water Production and Conservation Efforts / Groundwater Level Update As of August 2018

Conservation Efforts

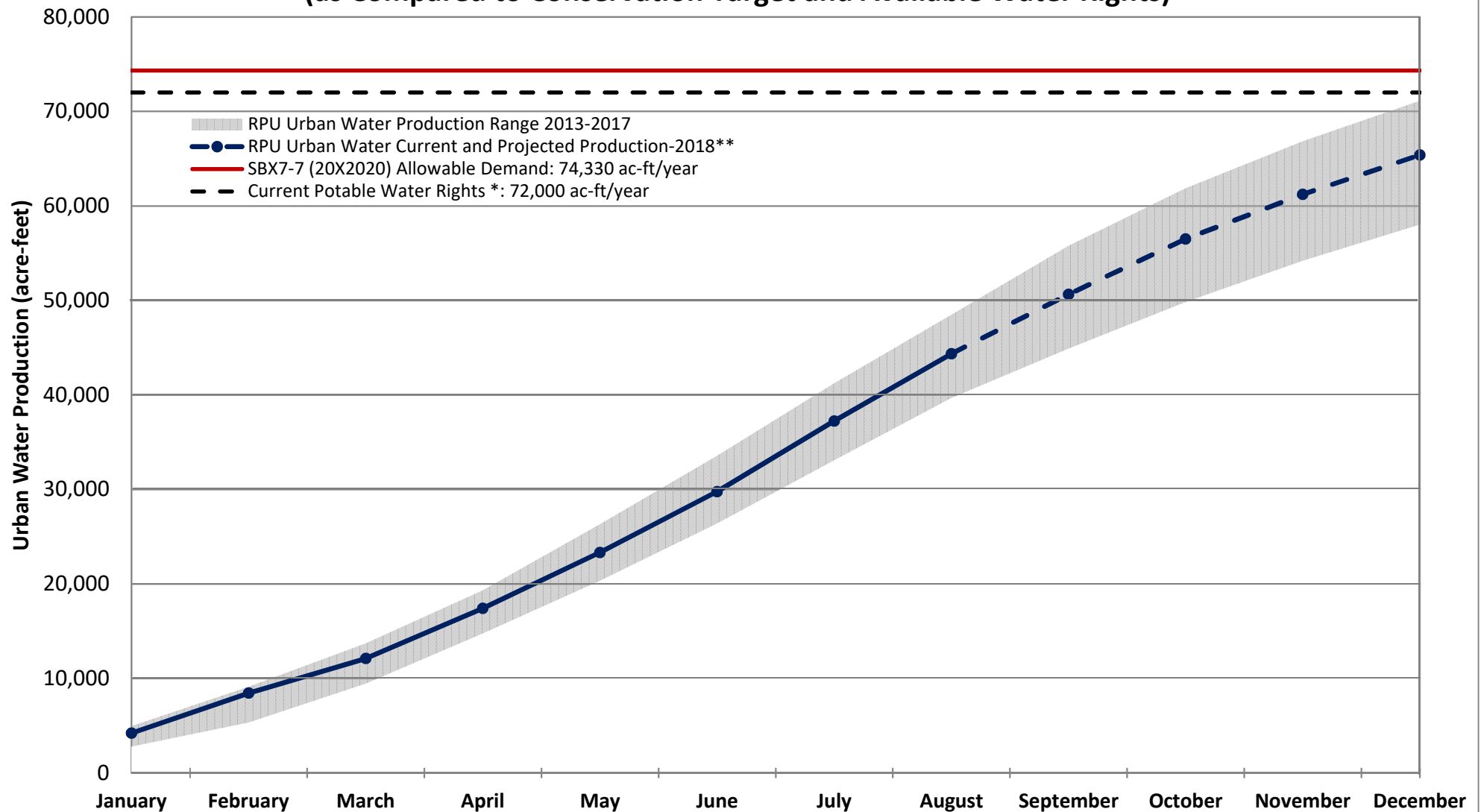
RPU's urban water production in August 2018 was 7,400 AF. This is an increase from last August by 458 AF or a drop in conservation of 6.2%. Weather conditions showed drier patterns for rainfall with 0.39" less of rainfall with respect to August 2017. August of 2018 was slightly cooler by about 0.22 degrees compared to last year. RPU is still within the historical production range from 2013 to 2017 as shown in Figure 1. Figure 1 also shows that RPU's projected annual urban water production in 2018 is 65,400 AF which is below the compliance target specified in SB X7-7 (i.e. 20% reduction by 2020). The projections for the 2018 urban water production is based on current trends of increased consumption and can be affected by the permanent water prohibitions implemented by the State and/or the return of drought conditions. The projected annual urban water production is also below RPU's current potable rights, which potentially can maximize RPU's passive assets by 6,500 AF through wholesale to Western Municipal Water District.

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 2. Groundwater levels in the Bunker Hill Basin are continuing their annual summer descent, and will soon be approaching their seasonal low point for the year. Water levels in Bunker Hill are approximately 2 feet lower as compared to August of last year. Water levels in the Rialto-Colton and Riverside North basins are 20 and 15 feet lower as compared to August of last year, respectively. The Riverside South Basin is approximately 2 feet lower as compared to August of last year.

Figure 1: Annual RPU Urban Water Production

(as Compared to Conservation Target and Available Water Rights)

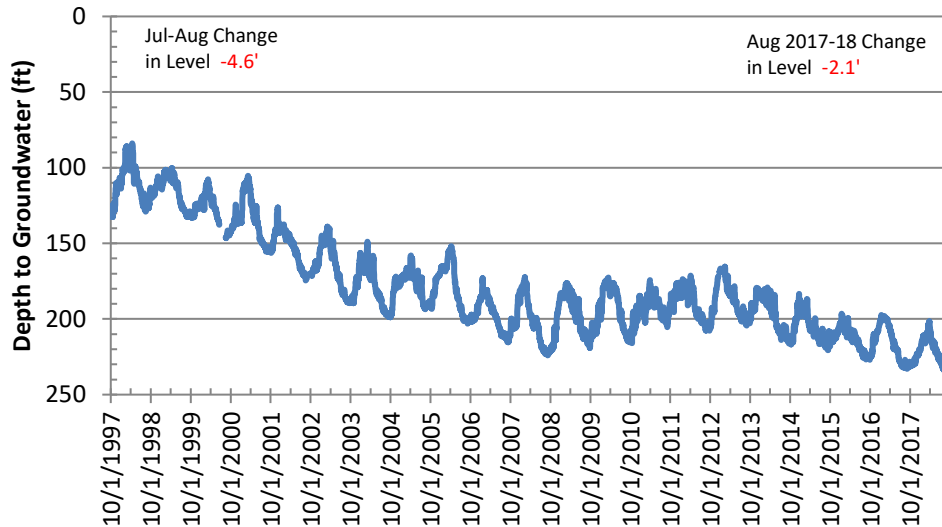


* Current Potable Water Right is the total current RPU Production rights minus all non potable obligations (85,774 - 12,000(Gage Canal) - 875(WMWD) - 900(Overlying Uses) = 72,000 ac-ft/year).

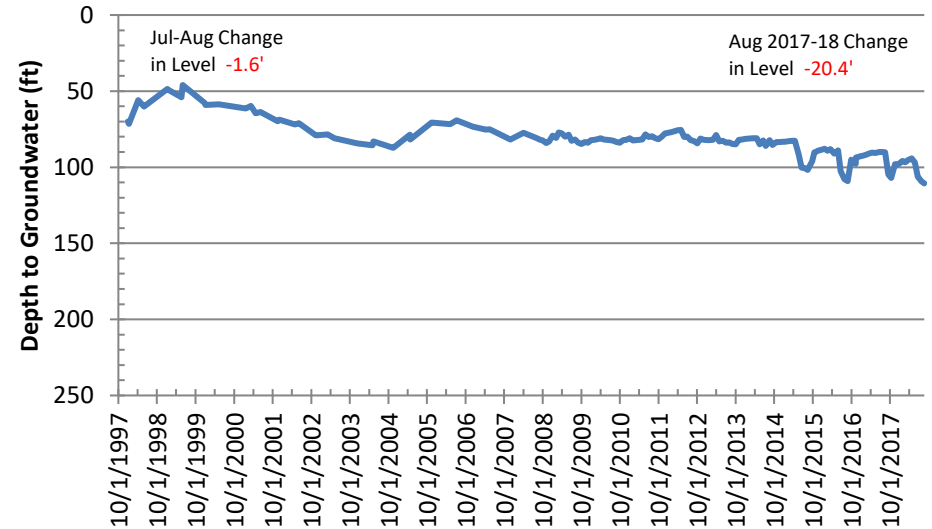
** Projections for 2018 are based on current trend of increased consumption. These projections can be affected by the upcoming permanent prohibitions, return of the drought episode, and proposed rate increase.

Figure 2: Basin Groundwater Levels

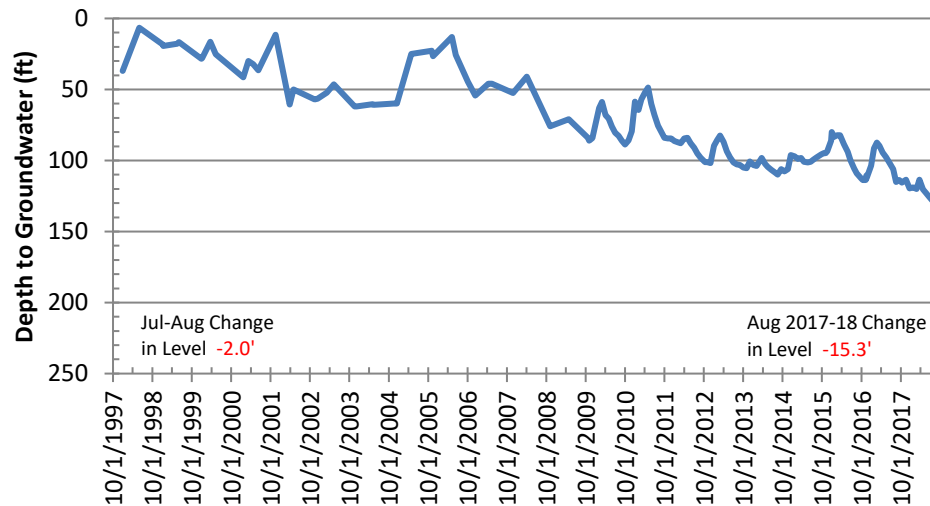
Bunker Hill Basin
Sierra High School (USGS)



Rialto-Colton Basin
Johnson 1



Riverside North Basin
Flume 5



Riverside South Basin
Cunningham

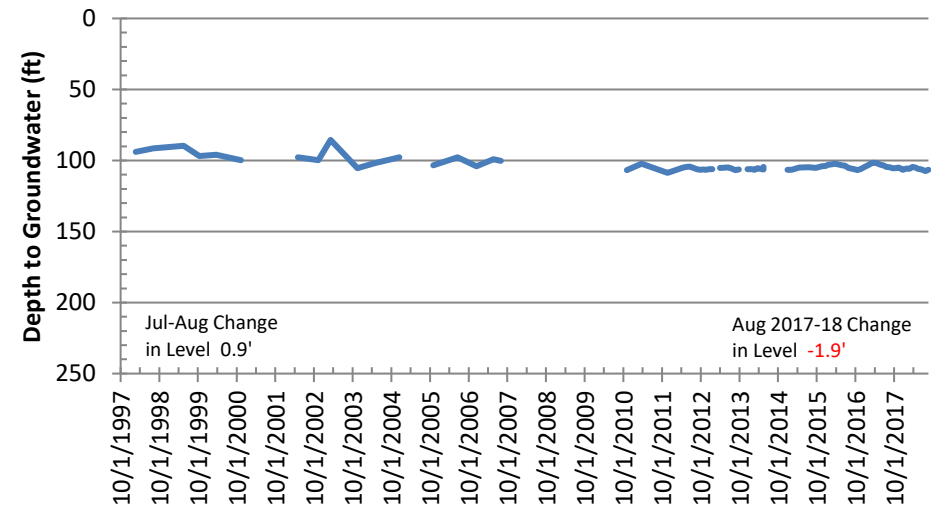


Figure 3: Groundwater Basin Vicinity Map

