

RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: December 9, 2019

GENERAL MANAGER'S REPORT

ITEM NO: 16

SUBJECT: MONTHLY WATER REPORT – October 2019

In October, RPU's total water production was 7,924 acre-feet (AF) as shown in Figures 1 and 2. RPU's annual rolling production totals by month are shown in Figure 3. In October, the peak water usage on the potable water distribution system was 75.3 million gallons per day (MGD) and occurred on October 22, 2019 as shown on Figure 4.

RPU's potable water supply, including deliveries to Western Municipal Water District (WMWD), totaled 6,788 AF, which increased from last October by 538 AF. Under the Cooperative Agreement for Water Production and Conveyance with WMWD, 642 AF was wholesaled to WMWD during October as shown in Figures 1 and 2. During this 2019/20 fiscal year, a total of 2,585 AF of potable water has been delivered to WMWD.

In October, RPU's Gallons Per-Capita per Day (GPCD) was 229, and its Residential Gallons Per-Capita per Day (R-GPCD) was 135. RPU's annual rolling GPCD was 177, which is below the compliance target specified in SB X7-7 (i.e. 20% reduction by 2020) of 213. RPU's annual rolling R-GPCD was 102 as shown on Figure 5.

Weather conditions within the City of Riverside showed that October of 2019 was warmer by 2.0 degrees from October last year and experienced a decrease of 0.9 inches of rainfall compared to October 2018.

There were no significant events for the water system in October 2019.

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 6. Water levels decreased by 3 feet in the Bunker Hill Basin as compared to October of last year. Water levels increased by 13 feet in the Rialto-Colton Basin as compared to October of last year. Water levels increased by 7 feet in the Riverside North Basin and 2 feet in the Riverside South Basin as compared to October of last year.

FIGURE 1: RPU WATER - TOTAL PRODUCTION REPORT- FISCAL YEAR 2019 -2020

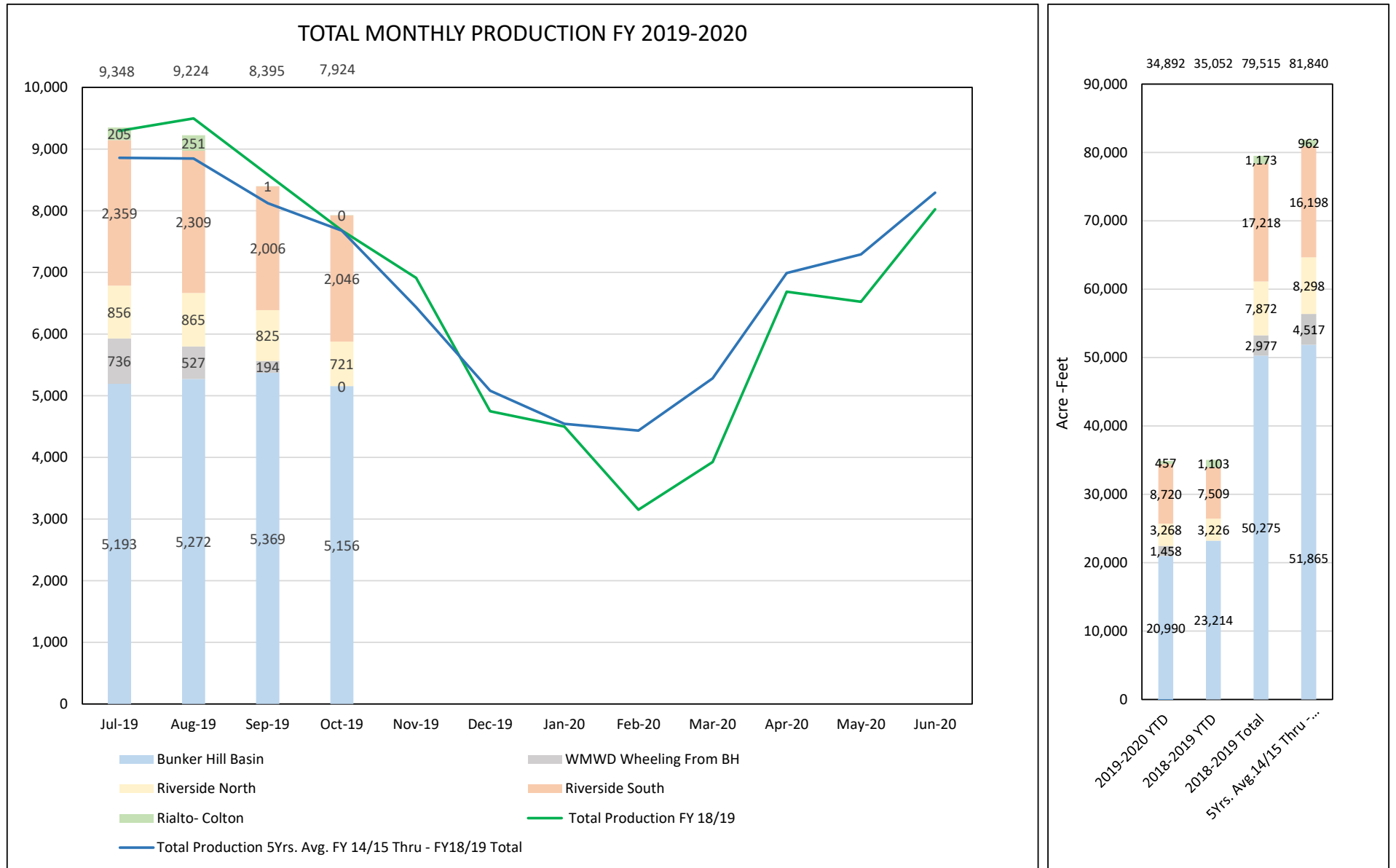


FIGURE 2: RPU WATER - TOTAL PRODUCTION REPORT - CALENDAR YEAR 2019

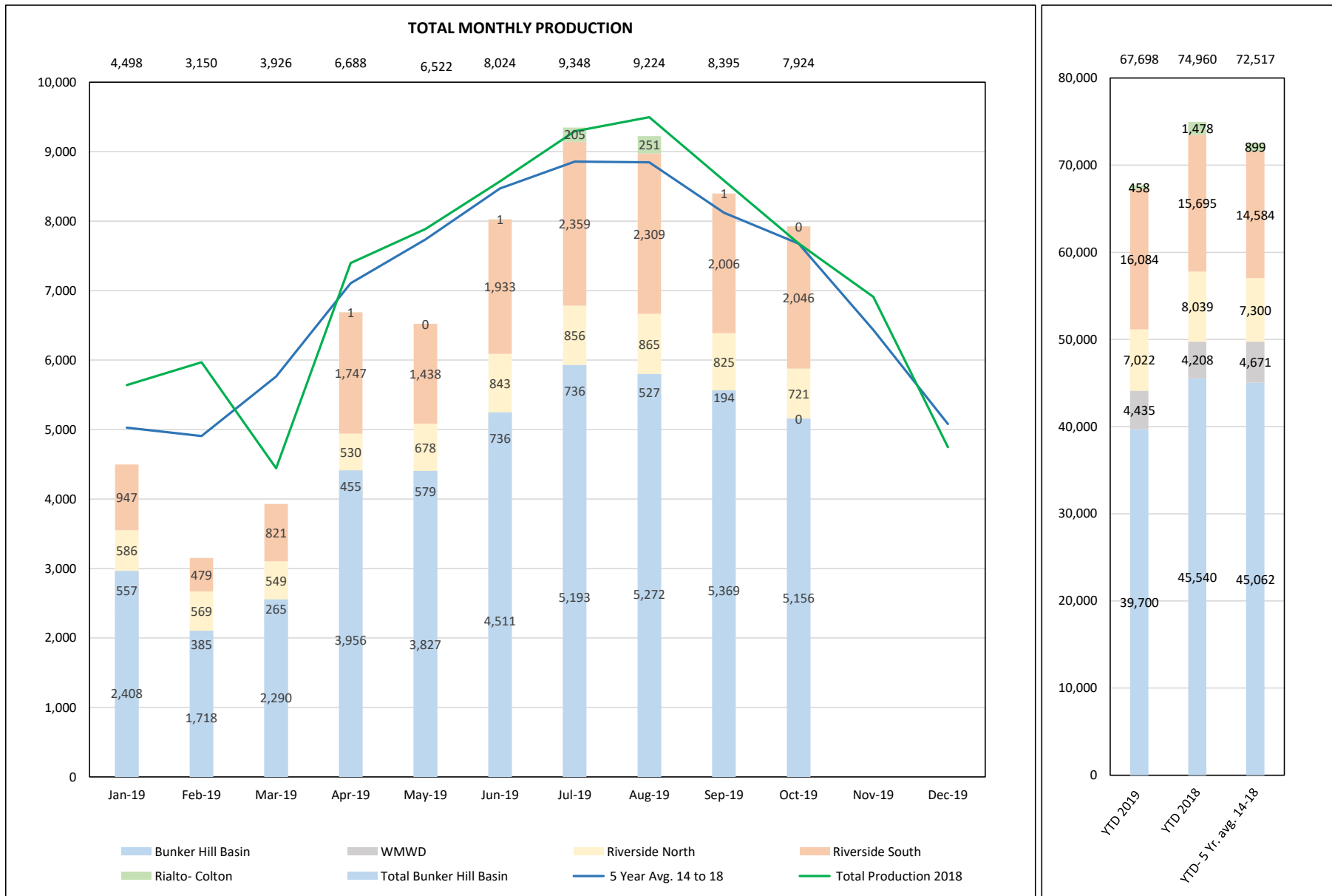


FIGURE 3: RPU WATER - TOTAL PRODUCTION REPORT

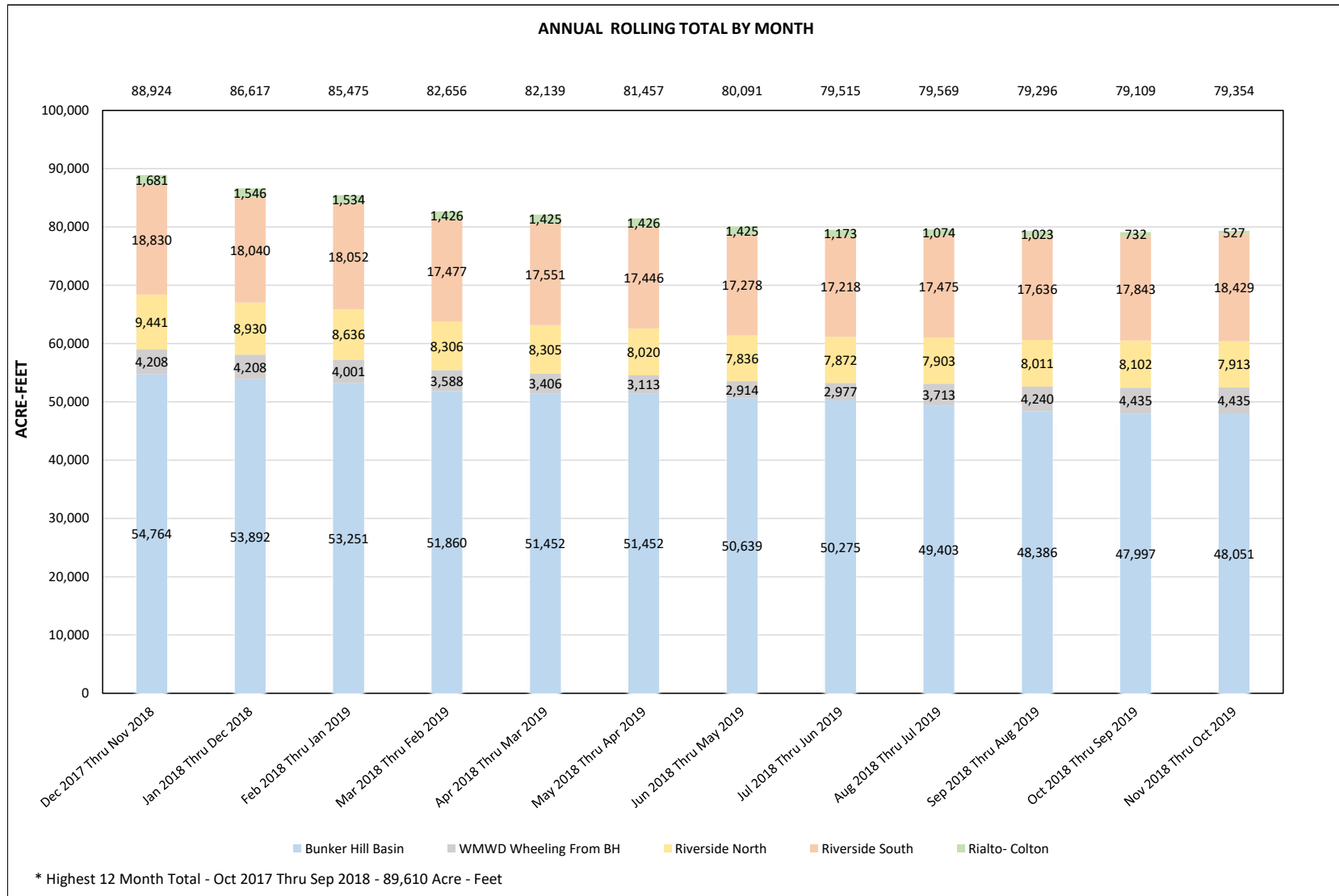


FIGURE 4: RPU WATER- TOTAL MONTHLY CONSUMPTION REPORT

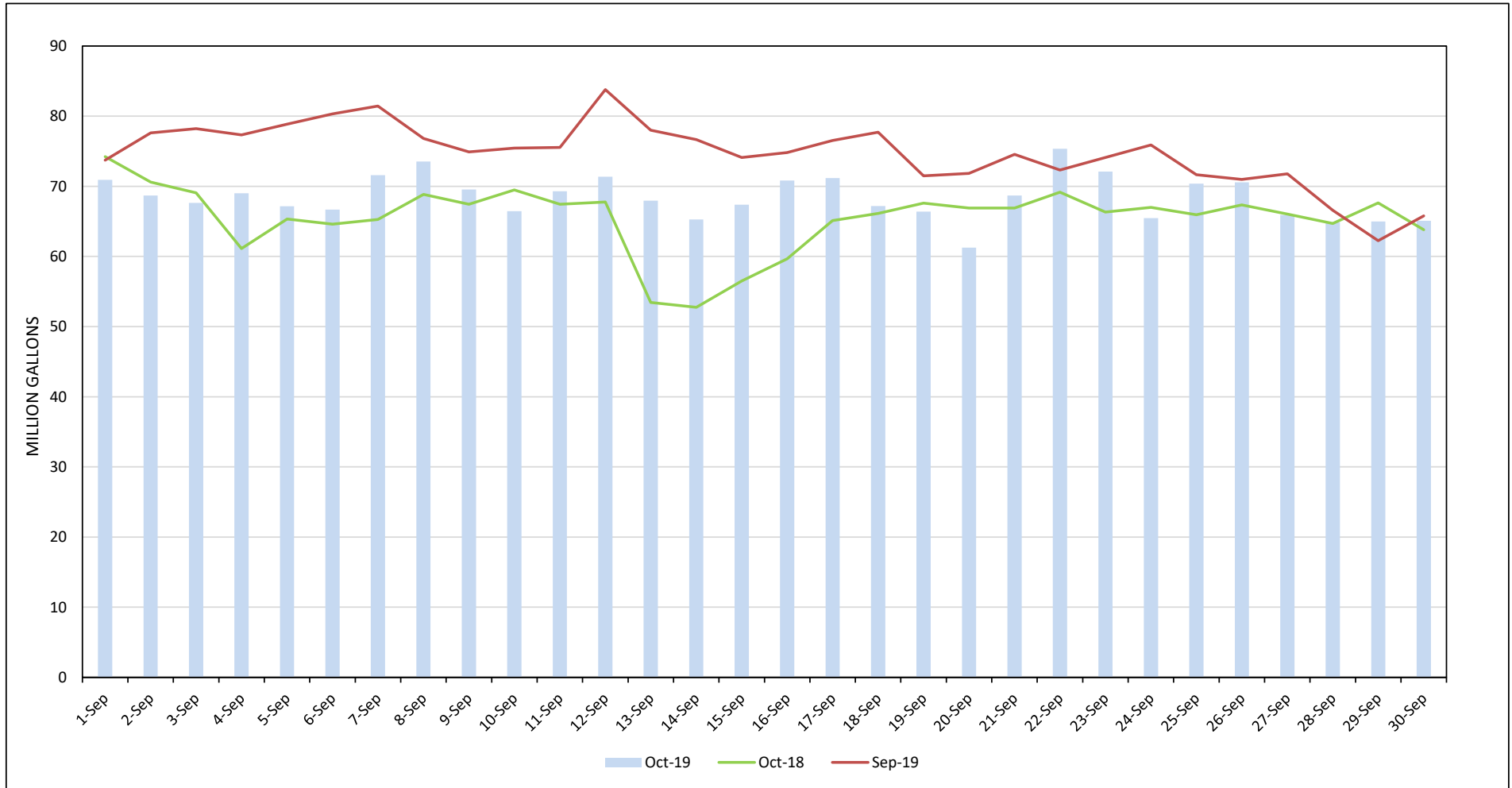


FIGURE 5: RPU WATER - TOTAL GPCD AND R- GPCD ANNUAL ROLLING

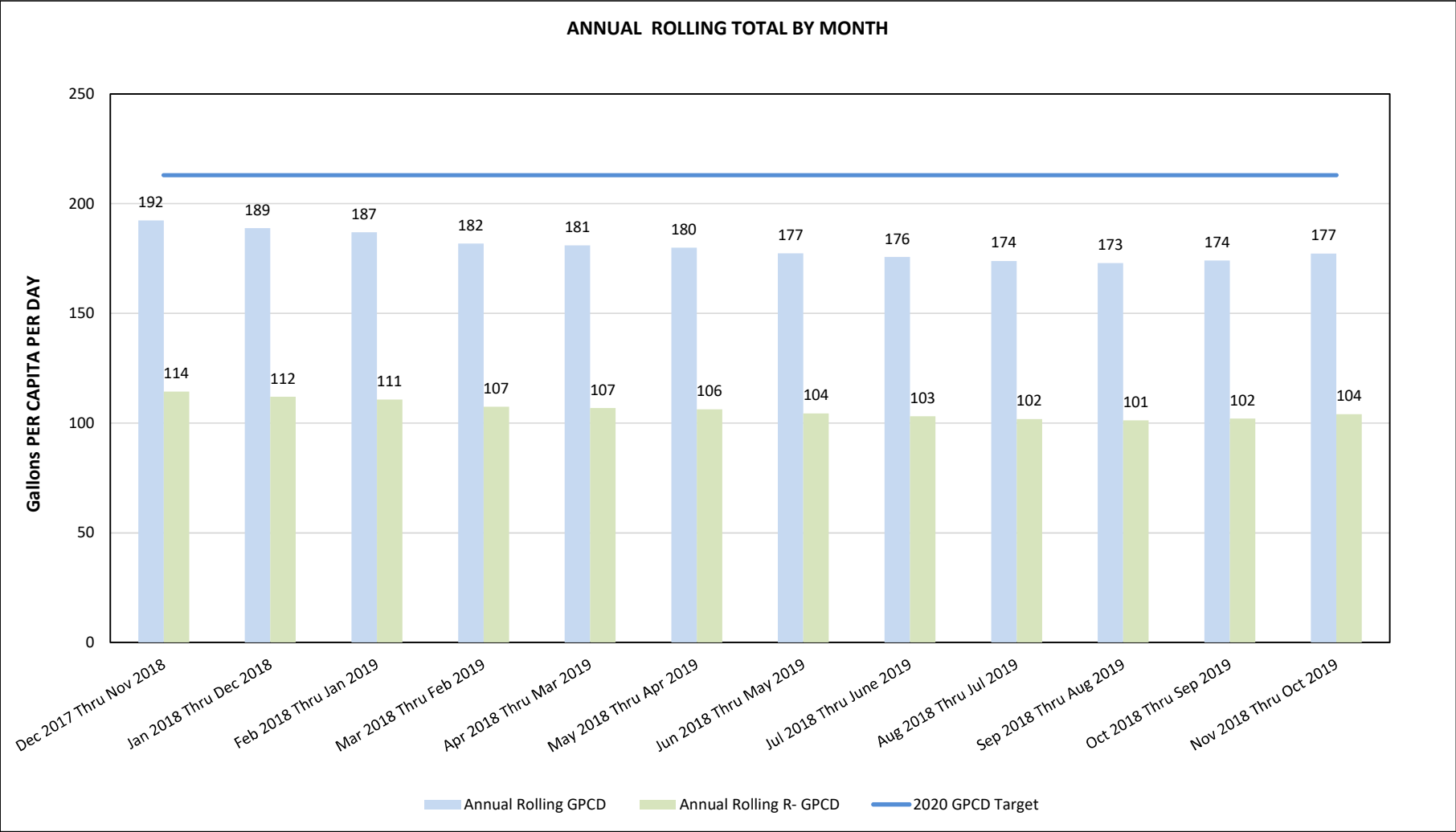
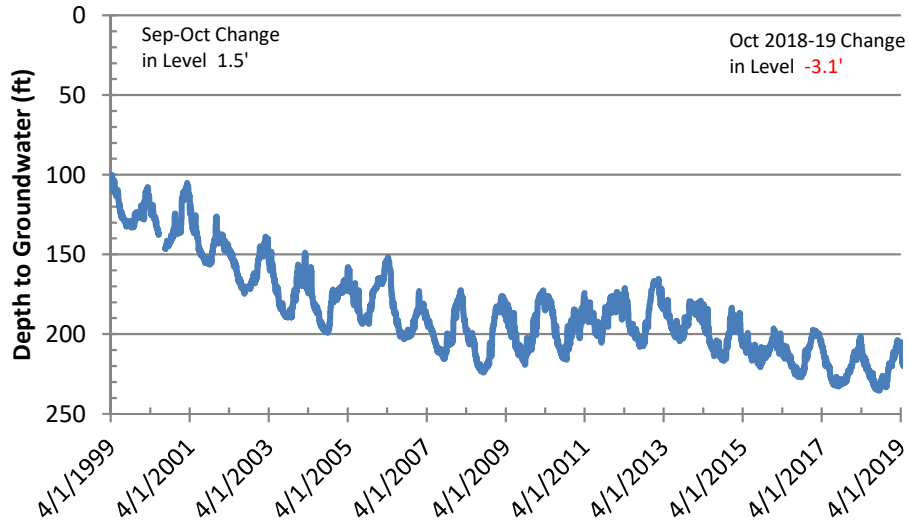
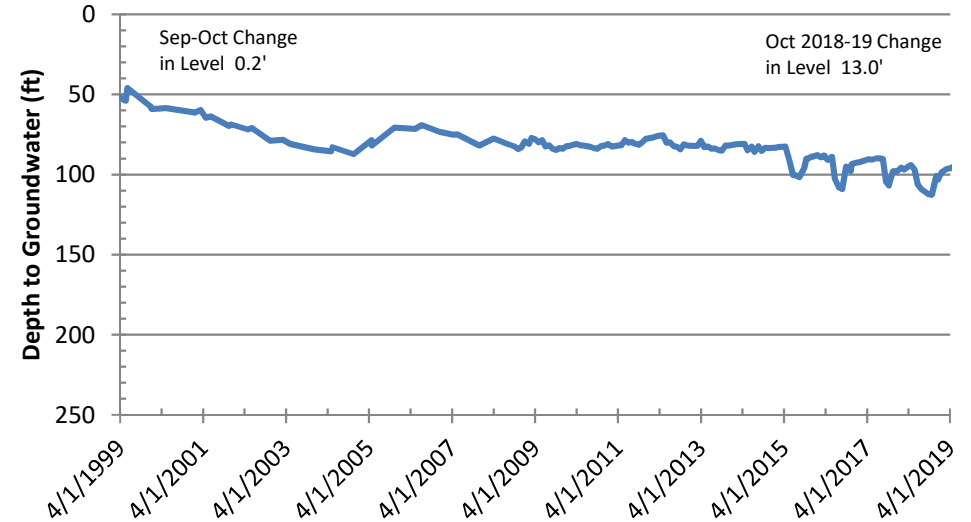


Figure 6: Basin Groundwater Levels

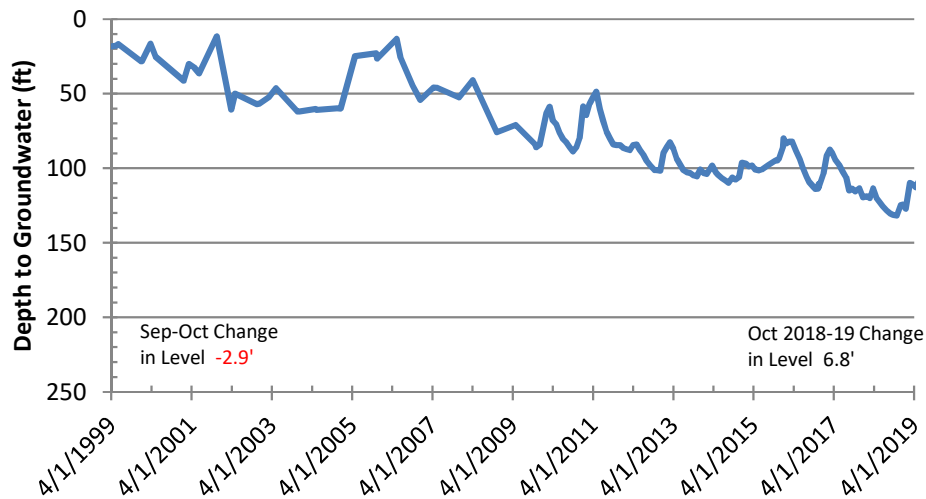
Bunker Hill Basin Sierra High School (USGS)



Rialto-Colton Basin Johnson 1



Riverside North Basin Flume 5



Riverside South Basin Cunningham

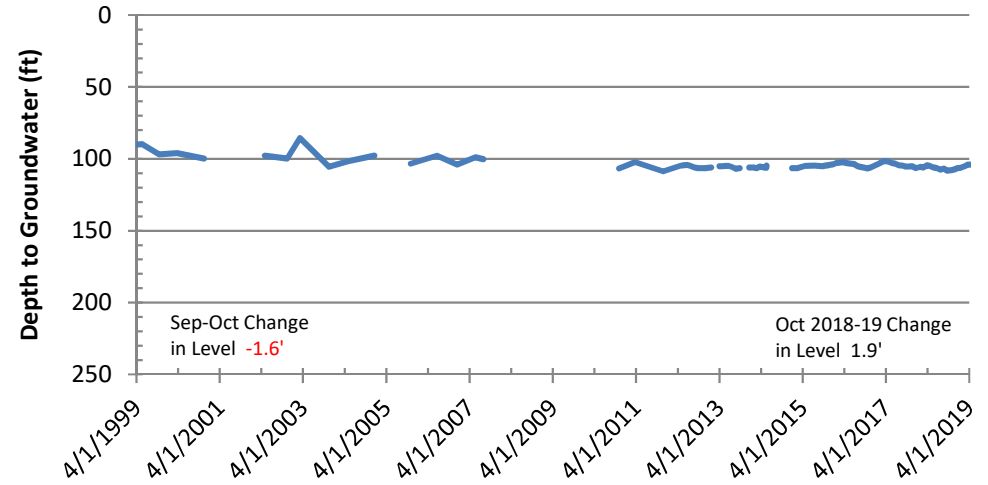


Figure 7: Groundwater Basin Vicinity Map

