



## 1 Executive Summary

The Hemet/San Jacinto Groundwater Management Area (Management Area) 2018 Annual Report (Annual Report) was prepared by Eastern Municipal Water District (EMWD) under contract with the Hemet-San Jacinto Watermaster (Watermaster), and is the sixth Annual Report to document the Watermaster activities as required by the Stipulated Judgment entered on April 18, 2013, in Riverside County Superior Court (Case No. RIC 1207274). The reporting period extends from January 1, 2018 through December 31, 2018.

The Management Area is located in the western portion of Riverside County within the San Jacinto River Watershed and includes the Cities of San Jacinto and Hemet, as well as the unincorporated areas of Winchester, Valle Vista, and Cactus Valley, as presented in Chapter 9, Figure 9-1. The Management Area encompasses approximately 90 square miles and has been divided into four (4) groundwater management zones as shown in Chapter 9, Figure 9-2.

Specifically, the Annual Report describes the status of the Management Plan implementation; discusses estimated water supplies and projected demands for the Management Area; reviews and evaluates the 2018 data compiled from the Groundwater Monitoring Programs; documents the recharge program, carry-over accounts, and other activities by the Watermaster during the 2018 budget year in the Management Area.

### 1.1 Groundwater Monitoring Programs Summary

The Groundwater Monitoring Programs include the Groundwater Level Monitoring, Groundwater Quality Monitoring, Groundwater Extraction Monitoring, and the Inactive Well Capping/Sealing Programs. A map of all wells participating in the 2018 Groundwater Monitoring Programs can be found in Chapter 9, Figure 9-3. During 2018, 363 groundwater level measurements were taken, 115 groundwater quality samples were collected; and groundwater extraction was metered at 113 well sites, and estimated at 39 well sites, for a total of 152 well sites. No inactive agricultural wells were capped/sealed during 2018 within the management area.

The sources of water supply within the Management Area for 2018 are shown in Chapter 4, Table 4-1. Groundwater was the main source of supply within the Management Area totaling 40,006 acre-feet (AF). Recycled water use in the Management Area accounted for 13,163 AF of demand, of which 8,366 AF was generated at the SJV RWRf in 2018. Imported water purchased from the Metropolitan Water District of Southern California (MWD) totaled 12,859 AF\*, of which 4,783 AF of imported water was recharged into the groundwater management zones. Of the total imported water purchased from MWD, approximately 12,504 AF was imported State Water Project (SWP) water and approximately 175 AF originated from the Colorado River Aqueduct for use within the Management Area.

\* Total imported water within the Management Area accounts for the system bringing untreated State Project Water into the Management Area at the Warren Road Pump Station (EM-14), and the second system can bring untreated Colorado River Water into the Management Area at the Brownlands Pumping Plant (EM-1), and is maintained for the purpose of groundwater augmentation for the dairies along the Ramona Expressway as part of the North San Jacinto Water Supply Initiative. It also takes into consideration conveyance to/from the Perris Water Filtration Plant to/from the Management Area.

EMWD and Lake Hemet Municipal Water District (LHMWD) both hold water rights on the San Jacinto River allowing them to divert water when river flows are sufficient. During 2018, LHMWD diverted 253 AF of surface water and all was directly used or sold. Surface water was not put into storage by LHMWD. Additionally, EMWD diverted 279 AF of surface water for recharge into the groundwater basin. Monthly groundwater extraction, imported water usage not including recharge water, recycled water usage, surface water usage not put into storage, and rainfall in the Management Area during 2018 are displayed in Figure 1-1.

**Figure 1-1: 2018 Groundwater Extraction, Imported Water Usage, Recycled Water Usage, Surface Water Usage, and Rainfall in the Management Area**

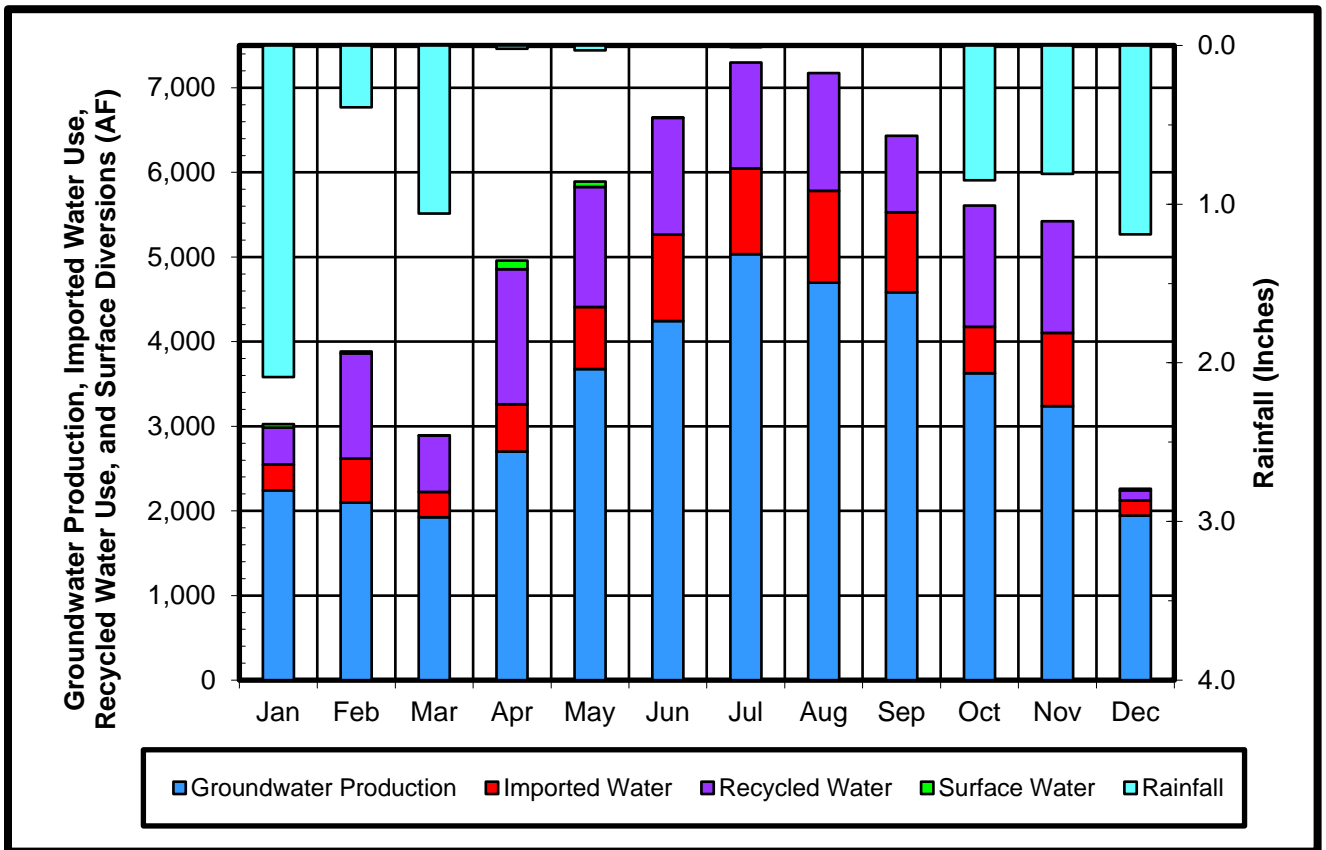


Figure 1-1 shows the monthly precipitation in 2018 within the Management Area based on measurements from the Hemet-Ryan Field Station (Station 180). The total precipitation recorded for 2018 was 6.45 inches with the majority recorded during the winter and fall months. Figure 1-1 also summarizes the water use portfolio within the Management Area in 2018. The groundwater production accounts for the largest source of water utilized within the Management Area in 2018,

followed by imported and recycled water utilized during 2018. Imported water use on Figure 1-1 does not include SWP recharge water. Recycled water usage in the Management Area is primarily supplied by the San Jacinto Valley Regional Water Reclamation Facility (SJV RWRf); however, the area also receives recycled water from the Winchester Ponds (Temecula Valley RWRf) and, occasionally, from the Perris Valley RWRf (PV RWRf). Surface water diversions depicted on Figure 1-1 accounts for the surface water used and does not include surface water put into storage by EMWD.

During 2018, eleven well (11) permits were issued including four (4) for the construction of agricultural wells. These wells are privately owned and are located on agricultural property. Of the remaining permits, four (4) were issued for small domestic wells and community wells, one (1) was issued for a monitoring well, and two (2) were issued for cathodic wells.