



## Action Item 23

Receive and Confirm Water Supply Forecast for May 1, 2019 through September 30, 2020 Period

Meeting Date: May 20, 2019

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# Long-Term Water Supply Forecast: May 2019 – September 2020

- This forecast applies to current and projected water supply and demand conditions in the *Monterey Peninsula Water Resource System*.
- This *system* includes surface water in the Carmel River and its tributaries and groundwater in the Carmel Valley Alluvial Aquifer and Seaside Groundwater Basin.



## Monterey Peninsula Water Resource System



# Long-Term Water Supply Forecast: May 2019 – September 2020

- This forecast considers California American Water (Cal-Am) and non Cal-Am water demands from these sources during the May 2019 through September 2020 period.
- This forecast is based on all usable surface and groundwater storage in the system as of May 1, 2019, which is termed “carryover” storage.

# Long-Term Water Supply Forecast: May 2019 – September 2020

## Notes:

- This *Water Supply Forecast* is based on actual water storage conditions and does not account for other environmental considerations such as riparian and aquatic resources.
- The rationing trigger for this *Water Supply Forecast* has been adjusted to reflect the appropriate reductions in pumping from the Carmel River and Seaside Groundwater Basins.



# Long-Term Water Supply Forecast: May 2019 – September 2020

## Carryover Storage as of May 1, 2019

| STORAGE FACILITY    | MAXIMUM STORAGE CAPACITY (AF) | CURRENT STORAGE (AF) | PERCENT OF MAXIMUM CAPACITY (%) |
|---------------------|-------------------------------|----------------------|---------------------------------|
| <u>RESERVOIR</u>    |                               |                      |                                 |
| LOS PADRES          | 1,670                         | 1,670                | 100%                            |
| <u>AQUIFERS</u>     |                               |                      |                                 |
| UPPER CARMEL VALLEY | 6,530                         | 6,470                | 99%                             |
| LOWER CARMEL VALLEY | 21,930                        | 21,080               | 96%                             |
| SEASIDE COASTAL     | <u>7,510</u>                  | <u>2,760</u>         | 37%                             |
| <b>TOTAL SYSTEM</b> | <b>37,640</b>                 | <b>31,980</b>        | <b>85%</b>                      |

# Physical Storage Target

## for the Monterey Peninsula Water Resource System

### for the May-September 2019 and all WY 2020

All Values in Acre-Feet

| PRODUCER                           | MAY-SEPTEMBER DEMAND | CARRYOVER STORAGE NEEDS FOR NEXT YEAR DEMAND | TOTAL STORAGE REQUIRED ON MAY 1  |
|------------------------------------|----------------------|--|----------------------------------|
| California American Water (Cal-Am) | 4,535                | 10,130                                       | 14,665                           |
| Non Cal-Am                         | 1,946                | 3,046  | 4,992                            |
| Total                              | 6,398                | 13,176                                       | <b>19,657</b>                    |
|                                    |                      |  | TOTAL STORAGE AVAILABLE ON MAY 1 |
|                                    |                      |  | <b>31,980</b>                    |

# Long-Term Water Supply Forecast: May 2019 – September 2020

- Total usable system storage as of May 1, 2019 is **31,980** acre-feet.
- To avoid mandatory water rationing, **19,657** acre-feet of carryover storage is required.
- Accordingly, the current amount of carryover storage is sufficient to begin Water Year 2020 with a full year's supply in reserve.



# Long-Term Water Supply Forecast: May 2019 – September 2020

## Recommendation:

- Receive the *Long-Term Water Supply Forecast for the Monterey Peninsula Water Resource System* for the May 2019 through September 2020 period.
- Given current carryover storage, mandatory water rationing is not required under District rules at this time.
- MPWMD shall continue implementation of its water conservation provisions currently in place.