



## Public Hearing Item 10

Receive and Confirm Water Supply  
Forecast for May 1, 2020 through  
September 30, 2021 Period

Meeting Date: May 18, 2020

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# Long-Term Water Supply Forecast: May 2020 – September 2021


- 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 2020 – September 2021

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- This forecast considers California American Water (Cal-Am) and non Cal-Am water demands from these sources during the May 2020 through September 2021 period.
  - This forecast is based on all usable surface and groundwater storage in the system as of May 1, 2020, which is termed “carryover” storage.

# Long-Term Water Supply Forecast: May 2020 – September 2021

## 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 2020 – September 2021

## Carryover Storage as of May 1, 2020

| STORAGE<br>FACILITY | MAXIMUM<br>STORAGE<br>CAPACITY<br>(AF) | CURRENT<br>STORAGE<br>(AF) | PERCENT OF<br>MAXIMUM<br>CAPACITY<br>(%) |
|---------------------|--|----------------------------|--|
| <u>RESERVOIR</u>    |  |                            |  |
| LOS PADRES          | 1,670                                  | 1,670                      | 100%                                     |
| <u>AQUIFERS</u>     |  |                            |  |
| UPPER CARMEL VALLEY | 6,530                                  | 6,240                      | 96%                                      |
| LOWER CARMEL VALLEY | 21,930                                 | 20,390                     | 93%                                      |
| SEASIDE COASTAL     | <u>3,000</u>                           | <u>1,421</u>               | 47%                                      |
| TOTAL SYSTEM        | 33,130                                 | 29,721                     | 90%                                      |

# Physical Storage Target


## for the Monterey Peninsula Water Resource System

### for the May-September 2020 and all WY 2021

All Values in Acre-Feet

| PRODUCER                                  | MAY-<br>SEPTEMBER<br>DEMAND | CARRYOVER STORAGE<br>NEEDS FOR NEXT YEAR<br>DEMAND | TOTAL STORAGE<br>REQUIRED ON<br>MAY 1 |
|---|-----------------------------|--|---------------------------------------|
| <b>California American Water (Cal-Am)</b> | 4,680                       | 9,784  | 14,464                                |
| <b>Non Cal-Am</b>                         | 1,946                       | 3,046  | 4,992                                 |
| <b>Total</b>                              | 6,626                       | 12,830   | <b>19,456</b>                         |
|   |                             |  | TOTAL STORAGE<br>AVAILABLE ON MAY 1   |
|   |                             |  | <b>29,720</b>                         |

# Long-Term Water Supply Forecast: May 2020 – September 2021

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- Total usable system storage as of May 1, 2020 is **29,720** acre-feet.
  - To avoid mandatory water rationing, **19,456** acre-feet of carryover storage is required.
  - Accordingly, the current amount of carryover storage is sufficient to begin Water Year 2021 with a full year's supply in reserve.



# Long-Term Water Supply Forecast: May 2020 – September 2021

## **Recommendation:**

- Receive the *Long-Term Water Supply Forecast for the Monterey Peninsula Water Resource System* for the May 2020 through September 2021 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.