



MONTEREY PENINSULA

**WATER SUPPLY
PROJECT**

NEWSLETTER

2018/2Q

PIPELINE PROJECT NEARS COMPLETION

PIPELINE BRIDGE CONSTRUCTED IN 2 NIGHTS



ALSO INSIDE

**PIPELINE SCHEDULE/PROGRESS
UPDATED PROJECT SCHEDULE**

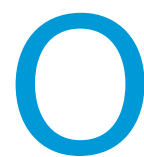
WATER SUPPLY ON TRACK

PAGE 4

PIPELINE BRIDGE INSTALLATION



MILESTONE REACHED IN WATER SUPPLY PROJECT



ver two nights in early June, California American Water built the Monterey pipe bridge, which now holds the final segment the Monterey Pipeline – a seven-mile, 36" water main that has been constructed across the Monterey Peninsula over the past 18 months. Ninety-nine percent of the pipeline is located underground, except the bridge segment, which represents the 1 percent above ground.

The nighttime construction, which took place June 4th and June 5th, started at 9:00 p.m. and finished around 2:00 a.m. -- necessitating closure of one side of Highway 68. At the end of the two days, the new bridge was complete.

"Several months of preparation resulted in the success of the bridge installation," said Project Manager Chris Cook. "The work done to prepare for the girders occurred both onsite and at the fabrication site. This approach allowed for rapid completion, saving cost and impact to motorists."

The pipe bridge, located over Highway 68, is designed to look like an adjacent road bridge, blending the structure into existing surroundings. It consists of two girders, connected in the middle by a column. Each girder weighs 100 tons and is 125 feet long. The girders were fabricated offsite and trucked in on the day of installation. Putting the girders in place required a 500 ton crane, among the largest available for construction use.

Pipeline construction began in early 2017. While the pipeline is now fully installed, work including final paving, appurtenance installation and

commissioning will continue into the fall. All work will now be taking place off roadways, lessening the traffic interruptions that were necessary during earlier phases of the project.

Completion of the pipeline is one of many important milestones the Monterey Peninsula Water Supply Project is expected to make this year. In the first half of 2018, the California Public Utilities Commission (CPUC) and Monterey Bay National Marine Sanctuary (MBNMS) released the Final Environmental Impact Report (EIR) for the project. The report selected a 6.4 MGD desal plant combined with 3,500 AFY of advanced-treatment water from the Pure Water Monterey project as the environmentally preferred project to meet the Monterey Peninsula's current and future water needs. A final decision on the project is expected from the California Public Utilities Commission in September, which will keep California American Water on track to comply with pumping reduction requirements on the Carmel River.

If the project is approved by the CPUC, it will mark the most significant progress made toward resolving the Monterey Peninsula's water supply shortage in decades. While previous projects have also received CPUC approval, the extent to which project components have been constructed or are in the process of being constructed is unprecedented.

"We are really coming into the home stretch," Cook said. "We're optimistic the pipeline work will wrap up in the coming months and the upcoming decision from the CPUC will allow us to continue moving forward into the next phase of the Water Supply Project."

READ EIR/EIS ONLINE

Folks looking for information on the EIR/EIS, can do so by visiting the project's website www.water-supplyproject.org/eir.





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An underwater photograph of a kelp forest. Sunlight filters through the water, creating a bright, hazy glow in the center. Dark, silhouetted kelp fronds and blades are visible against the lighter background, some reaching towards the surface.

PIPELINE UPDATES ONLINE

Folks looking for information on the pipeline installation schedule, traffic impacts and informative maps can do so by visiting the project's website www.watersupplyproject.org/pipeline. Similar information can also be found on the project's facebook page www.facebook.com/Monterey_Water. Those with any concerns or special request can call California American Water's pipeline hotline at: **831-646-3297**. All calls will be followed up with in a timely manner.

ABOUT THE PROJECT

The Monterey Peninsula is facing a severe water supply problem. That’s because the State Water Resources Control Board has ordered California American Water to significantly reduce its pumping of water from the Carmel River.

This order coupled with pumping restrictions in other parts of the county means that nearly 70 percent of the Monterey Peninsula community’s historic water supply must be replaced.

The current project is comprised of three elements:

- [Desalination](#)
- [Aquifer Storage and Recovery](#)
- [Pure Water Monterey: A Groundwater Replenishment Project](#)

This multi-faceted approach brings numerous advantages over a single-source solution. For one, it will enable California American Water to build a smaller desalination plant that will reduce the project’s environmental footprint.

Secondly, this strategy will build-in redundancy that is critical for all municipal water supply systems, allowing the water system to continue to provide water if one component becomes temporarily unavailable.

DESALINATION

The Monterey Peninsula Water Supply Project consists of sub-surface slant intake wells, a desalination plant, and related facilities including source water pipelines, product water pipelines and brine disposal facilities.

The desalination plant will produce 6,250 acre-feet of treated water per year. One acre-foot is

equal to one acre filled with one foot of water, which is typically enough water to support four households on the Monterey Peninsula for a year. California American Water purchased a 46-acre parcel of land located off of Charles Benson Road in Marina as the site for the proposed desalination plant.

California American Water has also secured access to and the ability to purchase permanent easements for locations to host its slant intake wells. California American Water’s project will use a series of slant wells located near the coastline in the North Marina area designed to draw ocean water.

The slant wells will be up to 800 feet long. The final location, layout and configuration will be based on the results of the slant test well and groundwater modeling work. In addition to the plant and its intake wells, other pipeline, storage and pump facilities will need to be constructed to ultimately deliver water to customers.

PURE WATER MONTEREY

The proposed Pure Water Monterey project, a partnership between Monterey One Water and the Monterey Peninsula Water Management District, recycles wastewater through an advanced treatment process. The resulting highly purified drinking water will be injected into the Seaside groundwater basin.

A new, advanced water treatment plant will be constructed for the project in addition to a number of supporting facilities. Source water for this project will go through a three-step treatment and purification process of microfiltration, reverse osmosis and oxidation with ultraviolet light and hydrogen peroxide — all commonly used in numerous industries and food manufacturing.

AQUIFER STORAGE AND RECOVERY

California American Water will expand its current ASR project – a partnership with the Monterey Peninsula Water Management District – which captures excess winter flows from the Carmel River for storage in the Seaside Aquifer and withdrawal during the dry, summer months. Winter flows are considered excess only when they exceed what is needed to protect the river’s threatened population of steelhead.

For the Monterey Peninsula Water Supply Project, the company plans to construct two additional ASR wells that will increase capacity of the program and allow the desalination plant to be smaller than would be needed without the wells.

BUDGET*

Subsurface Intake System: \$80M
(31% spent to date)

Desalination Plant: \$132M
(18% spent to date)

Pipeline Facilities: \$117M
(63% spent to date)

*NOTE: These figures are based on a 6.4 MGD desalination facility. Pre-construction costs are not included in the \$329-million project total. Further breakdown of the above components will occur after the CPUC issues a Certificate of Public Convenience and Necessity permit for the MP-WSP. These figures include financing and some contingency costs and therefore differ from the capital costs listed in the settlement.



For more information on the pipeline construction schedule and traffic impacts, please visit the project’s website: www.watersupplyproject.org

Here you will find informaton on where construction crews will be and when. You can also sign up to receive a weekly email with traffic alerts and general project progress.

PROJECT SCHEDULE

