

# the neighborhood connection

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## THAT'S A WRAP

### Construction Completed Ahead of Schedule

A project to rehabilitate two large pipelines recently completed construction six months ahead of the original fall 2019 completion date. Crews worked inside the pipeline wrapping the interior of the pipe using glass- and carbon-fiber reinforced polymers and installed protective weld strips for repairs. The rehab of the 84-inch pipe is the longest continuous repair of the size using this material known to exist in the United States. The rehabilitation efforts have extended the life of the pipes by another 50 years.

OCSD has three existing large diameter underground pipelines adjacent to the Santa Ana River



Inspection and walk through inside the 120-inch pipeline.

Trail interconnecting Plant No. 1 in Fountain Valley and Plant No. 2 in Huntington Beach. The pipelines measure 66, 84, and 120-inches in diameter and over 3.5 miles in length. The two larger pipelines are in service as part of OCSD's everyday wastewater treatment process. The smaller pipeline is currently not in use, but there is a future project to put this pipeline in service as part of the final expansion of the Groundwater Replenishment System, the world's largest water purification system for indirect potable reuse; which is a collaboration between OCSD and the Orange County Water District.

**This Orange County Sanitation District (OCSD)** publication is to keep you, our neighbors, informed about construction activities at our Huntington Beach treatment facility (Plant No. 2).

Over the next several years, OCSD's Capital Improvement Program is focusing on our infrastructure and maximizing resource recovery with many construction projects taking place at Plant No. 2.

**FUN FACT:** It would take 18,480,000 gallons of water (about 28 Olympic-sized swimming pools) to fill up both the 84-inch and 120-inch pipelines between Plant Nos. 1 and 2.



## OCSD is staying earthquake ready

Living in Southern California, earthquakes are a reality. They can happen at any time. All we can do is be prepared for when the next one occurs. The Newport-Inglewood Fault runs through Huntington Beach and Newport Beach, which includes through Plant No. 2. In the course of recent projects, certain areas of the Plant have been investigated and active fault zones identified. An upcoming study will conduct physical investigations and geotechnical analysis to document where there may be other active faults on the Plant site. The information will be used for planning and prioritizing future projects on the site.

As part of the study, seismic data will be collected. This will require the use of a specialized truck equipped with a low impact vibration system. This may need to occur at night when there are fewer cars on the road as vibration from other vehicles can impact the results. The activity may be noticed by nearby residents along Brookhurst Street. A notice for the area will be provided as the schedule and details are finalized.

# DOWN THE PIPELINE

Projects starting construction

## SPRING 2019

### Ocean Outfall Rehabilitation

Construction Budget: \$98.5 million

This five-year project rehabilitates the Ocean Outfall Booster Station, constructs a new outfall low flow pump station and new plant water pump station, and replaces the existing fiber optic process control network.

## SUMMER 2019

### Primary Clarifiers Repair

Construction Budget: \$6.8 million

This is a two-year project that will make structural repairs to 10 out of 14 primary clarifiers. Primary clarifiers are large basins where wastewater settles, allowing heavier solids to sink to the bottom and less dense materials called scum float to the top.

## FALL 2019

### Return Activated Sludge Piping Replacement

Construction Budget: \$7 million

Two-and-a-half year project to replace piping and associated components of the Activated Sludge facility built in 1979. The activated sludge process introduces aerobic micro-organisms to wastewater to help break it down.

# BOOSTING OUR SYSTEM

Construction on the rehabilitation of the Ocean Outfall System will be starting soon. With a construction budget just shy of \$100 million, there are major components to the project. The system responsible for conveying water through the ocean outfall will undergo rehabilitation of the mechanical, electrical, and civil systems at the Ocean Outfall Booster Station, construction of a new low flow pump station, and replacement of the existing plant water pump station. This will allow future separation of flow for the Groundwater Replenishment System Final Expansion, as well as a new power monitoring and control system.

Most noticeable construction activities will take place by the Ocean Outfall Booster Station which is adjacent to the Santa Ana River Trail, located opposite the Plant No. 2 main entrance on Brookhurst Street (*see aerial map to the right*). The start of the five year construction will include removing the existing asphalt and excavating the area, followed by deep soil mixing to stabilize the soil. The first activity you may notice is increased truck hauls of equipment and excavated material which cannot be reused on-site. Please visit our website for further details on this project and its connection to the GWRS.

[www.ocsd.com/construction](http://www.ocsd.com/construction)



Deep soil mixing stabilizes and strengthens the soil with the use of a large auger mixing soil with cement at depths of approximately 50 feet.



## Tell us what you think...

This newsletter is for you, our neighbors, so we want to know what you want to read about. Please answer the following questions and help us make this newsletter better for you. Once answered, cut out and put directly in the mail, no postage required. Thank you for your time.

1. Are you satisfied with the content of the newsletter? Yes

2. What are topics of interest for future issues?

\_\_\_\_\_

3. What do you want to see more of for future issues?

\_\_\_\_\_

4. What do you want to see less of for future issues?

\_\_\_\_\_

5. Would you be interested in electronic only publications? Yes

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## What's over the fence?

**Did you know that raw sewage is 99.9% water? Come for a tour of our Huntington Beach facility and learn about our treatment process.**

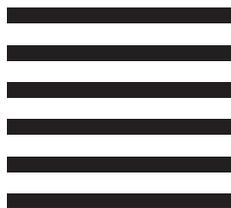
### Upcoming tour dates:

**Friday, March 1, 2019 at 9:30 a.m.  
Saturday, April 13, 2019 at 9:30 a.m.  
Friday, May 17, 2019 at 9:30 a.m.**

**RSVP by emailing: [forinformation@ocsd.com](mailto:forinformation@ocsd.com) or call 714.593.7135.  
Registration is required a minimum of one week prior to the tour date.**



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need more  
information on Plant  
No. 2 activities, or  
want to know what  
is coming up?**

Check out our website  
at **[www.ocsd.com/  
construction](http://www.ocsd.com/construction)**.

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