

PUBLIC AFFAIRS PORTFOLIO

Fiscal Year 2019-2020



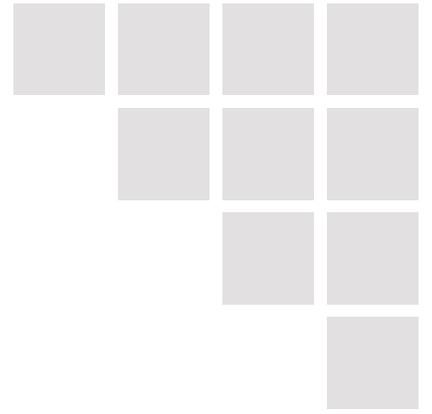
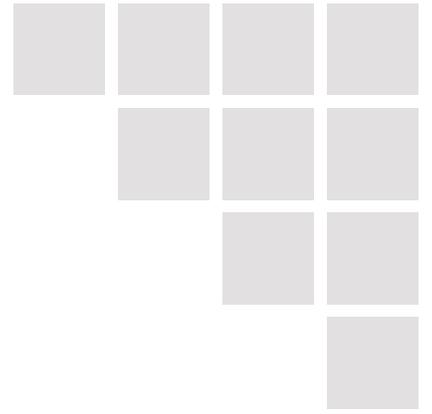


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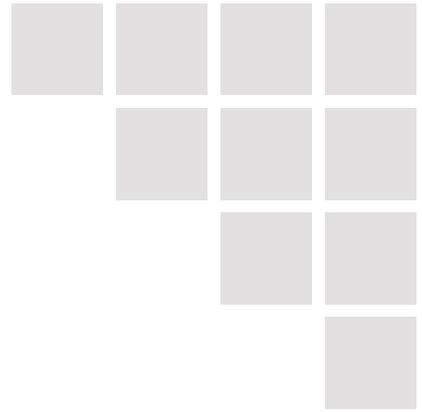
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OUTREACH

OUTREACH

Working with OCSD



DESIGN SERVICES OPPORTUNITIES

19AD Digester Facility at Plant No. 2
OCSD Project No. P-1728
Construction Estimate: \$50,100,000
Advertise for Bid: January 2020
Consultant RFP Advertise Date: January 2020

Replace the mesophilic anaerobic digester in Temperature-phased anaerobic digester (TPAD) configuration. This project will include new anaerobic digester, Clarifier, Marsh tank, cooling basins, and associated piping, pumping, electrical, power, distribution, and control.



WHO WE ARE

OCSD is a special district governed by a 55-member Board of Directors. OCSD provides wastewater collection, treatment, and recycling for approximately 2.6 million people living within a 479-square-mile of service area. OCSD provides wastewater collection, treatment, and recycling for approximately 155 million gallons of wastewater from 155 miles of sewer pipes and 15 pump stations, located throughout our service area.

Each day we treat approximately 155 million gallons of wastewater from residential, commercial, and industrial sources at two plants: Reclamation Plant No. 1 in Huntington Beach and Treatment Plant No. 2 in Huntington Beach, Plant No. 1 in Fountain Valley and Plant No. 2 in Huntington Beach.

VENDOR REGISTRATION

OCSD is a special district governed by a 55-member Board of Directors. OCSD provides wastewater collection, treatment, and recycling for approximately 2.6 million people living within a 479-square-mile of service area. OCSD provides wastewater collection, treatment, and recycling for approximately 155 million gallons of wastewater from 155 miles of sewer pipes and 15 pump stations, located throughout our service area.

For more information about vendor registration, visit www.ocsd.com/bids or call the Bid Line at 714.962.2411.

WORKING WITH OCSD



Reclamation Plant No. 1 (Administration Office)
10844 Ellis Avenue
Fountain Valley, California 92708

Treatment Plant No. 2
22212 Jett Road
Huntington Beach, California 92646

Phone: 714.962.2411
www.ocsd.com

Follow us on:





Brochure

CONSTRUCTION BID OPPORTUNITIES

HEADQUARTERS COMPLEX, OCSD PROJECT NO. P1-128A

Construction Estimate: \$69,100,000
Advertise for Bid: July 2020

Construct a new headquarters building to house administrative and engineering staff in the City of Fountain Valley. Includes surface parking and a pedestrian/utility bridge over Ellis Avenue to OCSD's Plant No. 1. The one 3-story building will be approximately 169,000 gross square feet of workspace including a lobby housing the Board Room Multipurpose Room. The proposed construction will be comprised of a hybrid mass timber and steel braced structure.



Primary rendering - view from Ellis Avenue

HEADWORKS REHABILITATION AT PLANT NO. 1, OCSD PROJECT NO. P1-105

Construction Estimate: \$29,180,000
Advertise for Bid: August 2020

Rehabilitates and upgrade facilities at the Plant No. 1 Headworks. Facilities to be rehabilitated include the Mixing and Chlorine Structures, the Bar Screen Building, the Bin Loading Building, the Main Sewage Pump Station, the Grit Basin, the Primary influent channels, the Headworks Color Control, Scumbers, and electrical power distribution and control systems. The project will also include demolition of the original Headworks No. 1 facilities and related Chlorine Building pumps.



Mixing and Chlorine Structure



Grit Chamber

A SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT NO. 2, OCSD PROJECT NO. P2-05A

Construction Estimate: \$143,000,000
Advertise for Bid: October 2020

Demolish and replace four existing A-Side Primary Clarifiers with flat covers; replace the South Scumbers Clarifier with a dual stage chemical dosing and control treatment system; replace existing utilities; demolition power building; and install a new power building.



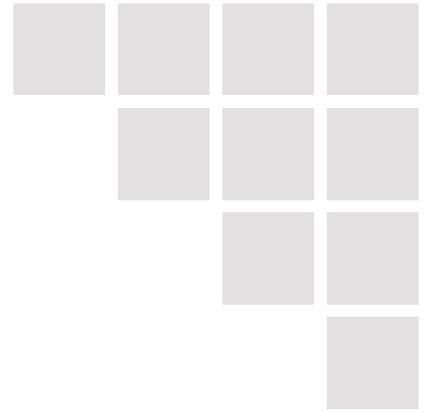
A-Side Primary Clarifiers



Primary Clarifier

OUTREACH

Construction



Orange County Sanitation District

THE MORE YOU KNOW!





SOURCE CONTROL
Through the Source Control Program, OCSD regulates and monitors industries to keep toxic pollutants out of the sewage system.



URBAN RUNOFF
Through the Urban Runoff Program, OCSD accepts the diversion of urban runoff to the sewer when it is not raining. The urban runoff is treated before being released into the ocean, or sent to the Orange County Water District for reclamation.



WASTEWATER TREATMENT
At OCSD, wastewater goes through preliminary, primary, and secondary treatment before being discharged into the ocean or sent to the Groundwater Replenishment System (GWRS).



GROUNDWATER REPLENISHMENT SYSTEM
GWRS is the world's largest advanced water purification system for potable reuse. This project is jointly sponsored by OCSD and the Orange County Water District.



NERISSA
On board the Nerissa, OCSD's 60-foot ocean research vessel, we sample 35 square miles of the ocean, testing and monitoring ocean sea life and sediments from the ocean floor to make sure no pollutants cause harm to marine life.

To take a tour visit us at OCSD.com/tours. Follow us on social media @ocsewers.



09/03/19

Notice

Orange County Sanitation District

MAINTENANCE / CONSTRUCTION

NOTICE

September 2019

Where
In the city of Huntington Beach, adjacent to the Santa Ana River Trail north of Hamilton Avenue along the fence line of the Sea Spray Condominium parking lot area.

What
Orange County Sanitation District (OCSD) will be placing erosion control measures consisting of dirt removal, grading, removal and replacement of fiber rolls, and other items as required. To ensure the safety of everyone, the pedestrian gate from the Sea Spray Condominium parking lot to the Santa Ana River Trail will be closed for the duration of the work.

When
Week of September 9, 2019
Work hours are 7 a.m. – 4 p.m., M - F
Dates and times are subject to change due to operational or inclement weather.

Why
Properties adjacent to the Santa Ana River have major pipelines and utilities owned and maintained by OCSD. Erosion control will be placed to protect these utilities and mitigate erosion.

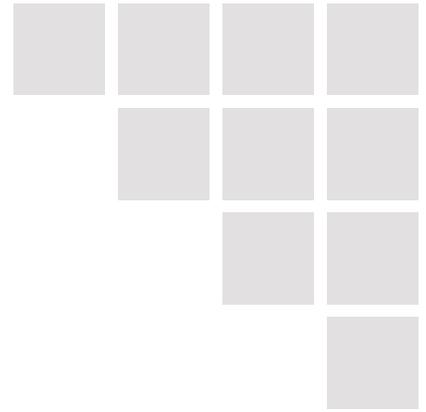
Who
OCSD is the public agency that provides regional wastewater collection, treatment, and recycling services for approximately 2.6 million people in central and northwest Orange County. OCSD operates two facilities – Reclamation Plant No. 1 in Fountain Valley and Treatment Plant No. 2 in Huntington Beach – and treat an average of 185 million gallons of wastewater each day.

For more information, please call our dedicated Community Liaison on the **Construction Hotline (714) 378-2965** or email constructionhotline@ocsd.com
10844 Ellis Ave., Fountain Valley, CA 92708-7018
www.ocsd.com | Connect with us on social media @ocsewers



OUTREACH

Construction



HOW WE INSTALL

Sewer Pipes

Orange County Sanitation District

- 1 TRAFFIC CONTROL**
First step is to establish the work zone by setting up lane closures, traffic cones, k-rail, etc. This helps provide a safe work area.
- 2 SEWER BYPASS**
A bypass system is installed to redirect the sewer flow to be able to replace the clogged pipe while maintaining sewer service. (If pipe is installed in new alignment bypass is not required).
- 3 PIPE INSTALLATION**
After area is excavated, sloped, and prepared, the pipe is installed segment by segment (pipe segments vary in length based on size of the pipe).
- 4 MANHOLE CONSTRUCTION**
Once pipe is installed, the manholes are constructed to allow access in the future for maintenance and operation of the line.
- 5 STREET RESTORATION**
Repair of medians and curb and gutter that may have been impacted. The last step is to pave and restripe the road back to its original condition.

ORANGE COUNTY SANITATION DISTRICT

Stay informed

Please sign up to receive text alerts and email notifications at www.OCSd.com/StateCollege or email us at ConstructionHotline@ocsd.com

For more information, please contact our dedicated Community Liaison at 657.208.7900.

Connect with us on social media @ocsewers

STATE COLLEGE SEWER CONSTRUCTION ALERT

Brochure

STATE COLLEGE SEWER CONSTRUCTION

Phase B of the Newhope Sewer Replacement Project

The Orange County Sanitation District (OCSd) is starting construction on State College Blvd. from just south of the 91 freeway to Orangewood Avenue in the City of Anaheim to replace four miles of sewer.

The work will be done in segments, please note the various time frames for each area highlighted on the map. Lane closures will be required for all work so we advise that you plan your commutes accordingly. Please refer to our website or the Construction Hotline for specific details.

*OCSd is a public agency that provides regional wastewater collection, treatment, and recycling services for approximately 2.6 million people in central and northwest Orange County.

PROJECT BEGAN IN SEPTEMBER 2018

Have Questions? Please Contact Our Community Liaison (657) 208-7900
ConstructionHotline@ocsd.com

Location: State College Blvd. from Underhill Ave. to south of SR-91
Timeframe: Summer 2019 – Winter 2020*

Location: State College Blvd. from Vermont Ave. to Underhill Ave.
Timeframe: Spring 2020 – Fall 2020* (Extended work hours required)

Location: State College Blvd. from Ball Rd. to Vermont Ave.
Timeframe: Spring - Summer 2019*

*lateral connections will occur at later date

City of Anaheim's water line infrastructure will be simultaneously upgraded with construction of the new sewer line.

Lincoln to La Palma Timeframe: Spring – Summer 2020

Location: Returning to intersection of State College Blvd. & Orangewood Ave
Timeframe: Winter 2019 (Angel's offseason)

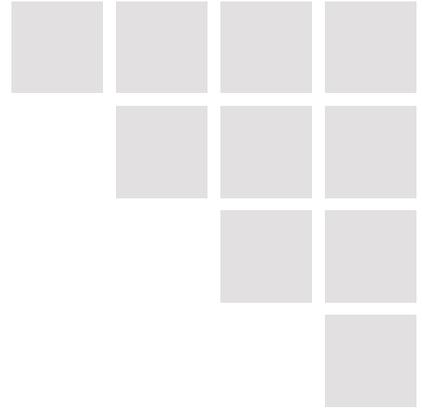
More information at www.OCSd.com/StateCollege Connect with us at [@ocsewers](https://twitter.com/ocsewers)

Rev. 7/18/19

(Dates are subject to change due to operational factors or inclement weather).

OUTREACH

Construction



Orange County Sanitation District

WESTMINSTER BLVD. SEWER PROJECT

THE FACTS



About us

The Orange County Sanitation District (OCSD) is a public agency that provides wastewater collection, treatment, and recycling services for approximately 2.6 million people in central and northwest Orange County. OCSD operates two facilities – Reclamation Plant No. 1 in Fountain Valley and Treatment Plant No. 2 in Huntington Beach – and treat an average of 185 million gallons of wastewater each day.

What is this project?
This project will replace and reconstruct nearly three miles of the existing sewer force main system consisting of two parallel 36-inch diameter sewer pipelines on Westminster Boulevard between Seal Beach Boulevard and Harmon Place/Rancho Road in the cities of Seal Beach and Westminster.

A force main system are pipes used to move wastewater under pressure by use of a pump station. Force mains are necessary when gravity flow is not sufficient to move wastewater.

Why is the project needed?
The aging infrastructure is over 40 years ago with only one of the two pipelines in service. This project is required to maintain a reliable and effective wastewater collection system expected to last 40-50 years.

When is the project scheduled?
Construction is scheduled to begin as early as Spring 2020 and last until late 2022.

What impacts can be expected?
OCSD is working diligently on this project to ensure every possible measure is taken to minimize public impacts. There may be traffic restrictions reducing the number of travel lanes. There may be elevated noise levels, vibration, and other related impacts. Mitigation measures will be put in place to ensure compliance with City ordinances as well as minimize the impacts to our neighbors. We are working closely with the cities, in addition to the OCTA 405 Improvement Project team.




Questions?
If you would like additional information, please call the OCSD Construction Hotline at (714) 378-2965 or e-mail ConstructionHotline@ocsd.com. For additional information on the Orange County Sanitation District please visit www.ocsd.com/westminster or through social media @ocsewers.

Mailer

Orange County Sanitation District

WESTMINSTER BLVD. SEWER PROJECT

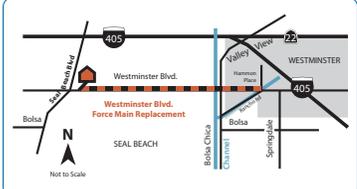


SEWER CONSTRUCTION IS STARTING

March 2020

Starting location
Work will commence in the City of Seal Beach on Westminster Blvd. between Seal Beach Blvd. and Bolsa Chica Rd. It is about a 2-mile stretch of work activity in the City of Seal Beach before work commences in the City of Westminster, east of Bolsa Chica Rd.

The Orange County Sanitation District (OCSD) is about to start construction on the Westminster Blvd. Sewer Project on nearly 3 miles of regional sewer pipelines.



Starting as early as April 2020 and concluding late 2022
Monday to Friday, 5 a.m. – 7 p.m.
Dates and times are subject to change due to operational factors or implement weather. Some locations will require night work hours and notice will be provided.

What to expect
Most work for the Seal Beach portion of Westminster Blvd. will be within the center median. The roadway will be widened, traffic lanes restriped, and k-rail set in place to accommodate the work in the median area. There will be periodic traffic delays and restrictions reducing the number of open travel lanes during nonpeak traffic hours.

Thank you for your patience, we appreciate your support as we work to improve Orange County's regional sewer.

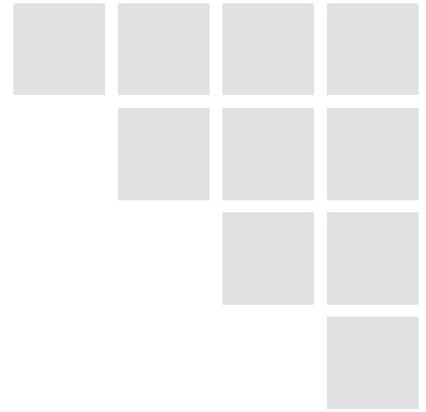
Stay informed
Visit the project website to learn more at www.OCSD.com/westminster.

Questions?
Contact the Construction Hotline 714.378.2965 or email ConstructionHotline@ocsd.com.



OUTREACH

Construction



STATE COLLEGE SEWER CONSTRUCTION

Orange County Sanitation District

NEIGHBORHOOD BULLETIN

Winter 2020

Why Is Construction Taking So Long?

We have installed about 60 percent of the pipe...so what is taking so long to finish? We are making great progress with the sewer installation along State College Blvd., however, it's a big job with a lot of puzzle pieces to put together so it takes quite a bit of time. Each area has to be done in stages. Let's take a look at some of the many "pieces" involved in sewer installation:

<p>Traffic Control and K-Rail Lane closures, traffic cones, and K-rail are put in place to establish construction zone area and provide a safe work space.</p>	<p>Manhole Construction and Connection of Lateral Lines Once the pipe is installed downstream, crews return to the area to construct manholes for future access of the pipe and to connect laterals to the new line. To do this, the area must once again be trenched and shored to initiate connection of the line. Once completed, the laterals will take water generated from homes and business to the newly installed sewer line.</p>
<p>Pipe Installation Crews work 20 feet below street level to safely install the pipe.</p>	<p>Removal of Shoring and Backfill The area is restored to allow for complete access of the road giving the illusion that the work is complete. This is a temporary step that needs to be done prior to us coming back to put the main line in service.</p>
<p>Excavation and Shoring Excavated trenches are 20 feet deep and need to be secured with large plates installed on both sides of the trench. This "shoring" prevents the trench from caving in, keeping the construction crew and all the necessary equipment in the trench safe. Once the site is secured, the dirt is removed.</p>	<p>Restoration: Street, Median, Landscaping This is the final step in the process. Repair medians, curbs and gutters, landscape, irrigation, and pave and re-stripe the road back to its original condition.</p>

Sign up to receive text alerts and e-notifications at www.ocsd.com/StateCollege

Mailer

Your Safety Matters

During construction of this project, extensive traffic control is required for the safety and welfare of everyone. We ask that you please drive carefully and obey all of the traffic signs posted. Pedestrians should exercise caution when crossing the street and only use the designated crosswalks. Safety is our priority.

State College Sewer Progress

Please support your local businesses and merchants along State College Blvd. during construction. They remain open and are always accessible.

Este boletín está disponible en español en nuestra página de internet
www.ocsd.com/StateCollege

Connect with us on social
@ocsewers

This project is one of life's necessities - updating the sewer system that flushes away waste and water from bathrooms, laundry, and dishwashers is vital to our community's health and safety.

We thank you for your patience as we complete this necessary project.

If you would like additional information, please call our dedicated **Community Liaison** on the **Construction Hotline (657) 208-7900** or e-mail constructionhotline@ocsd.com
10844 Ellis Avenue, Fountain Valley, CA 92708-7018 | www.ocsd.com

OUTREACH

Construction

CONSTRUCTION INFORMATION


|
FINAL EXPANSION

The Orange County Water District (OCWD) is constructing two large tanks and a pump station at the north end of the Orange County Sanitation District's (OCSD) Plant No. 2 in Huntington Beach. The tanks will have a combined capacity of six million gallons of reclaimable water that will be pumped 3.5 miles to the GWRS facility in Fountain Valley for treatment and injection into our groundwater basin.

Construction Activity: Current – Spring 2022

Work Hours: Monday – Friday, 7 a.m. – 7 p.m.

What to Expect: Construction activity, equipment and associated noise may be noticeable.
Please be assured that we adhere to all city ordinances and permit requirements.

We understand that construction can be an inconvenience and thank you for your patience.

Call: Construction Hotline **714.378.2965**
 Email: ConstructionHotline@ocsd.com
 Visit: www.ocsd.com/gwrs




Postcard


|
FINAL EXPANSION

Deep Soil Mixing

May 2020 – August 2020
Mon – Fri, 7 a.m. – 5 p.m.

Work dates and times are subject to change due to inclement weather, operational factors, and environmental impacts.



Deep soil mixing activity took place on the OCSD Ocean Outfall System project in July 2019.

Upcoming Construction Activity to Commence

As part of the Groundwater Replenishment System (GWRS) Final Expansion, the Orange County Water District (OCWD) is constructing two large tanks and a pump station at the north end of the Orange County Sanitation District (OCSD) Plant No. 2.

The contractor on the project is beginning to prep for deep soil mixing, a method for enhancing the ground capacity and strength by improving soils underneath the location of the future structures.

An auger is attached to a crane-supported equipment, the auger drills into the ground and constructs cement-mixed columns below the ground surface.

WHAT TO EXPECT

- Noise from construction equipment and activity may be noticeable for nearby residents.
- Any minor vibrations as a result from this activity will be closely monitored.
- Increased truck traffic may be noticeable. Please note we do not allow our contractors to stage on Brookhurst Street. They are immediately let in after clearing security. Any vehicles that queue along Brookhurst Street are not related to any projects taking place at OCSD.
- Please be assured that we adhere to all city ordinances and permit requirements.
- After the deep soil mixing activity is completed, excavation will take place at the location of the new tanks to be constructed. This will require trucks in and out of the facility.

ABOUT GWRS

GWRS is the world's largest potable water purification system, taking highly treated wastewater that would have previously been discharged into the Pacific Ocean and purifying it using a three-step advanced treatment process consisting of microfiltration, reverse osmosis, and ultraviolet with hydrogen peroxide.

For more information, please call our dedicated Community Liaison on the Construction Hotline (714) 378-2965 or email ConstructionHotline@ocsd.com.
 For general information about GWRS please visit www.OCWD.com/GWRS




Flyer


|
FINAL EXPANSION

An Orange County Regional Drought-Proof Infrastructure Project

Description

Water reuse project that creates additional drought-proof drinking water supply for a total of over one million people, by expanding highly-purified recycled water facilities from 100 million gallons per day to 130 million gallons per day at the lowest cost of water per drop for Southern California.

A Strong Investment

- Decreases the need for imported water from Northern California and the Colorado River.
- The Orange County Water District has a proven track record of successfully completing this type of project.
- When completed, the GWRS plant will produce the equivalent of one year's water supply for over one million people.
- The groundwater basin functions as an underground reservoir. Water is stored and pumped when needed for drinking water. Adding more water to the basin increases the available supply and helps during droughts.
- Featured on 60 Minutes, National Geographic, New York Times, The Wall Street Journal and winner of more than 50 national and international awards.

The Orange County Water District (OCWD) manages the vast Orange County Groundwater Basin that supplies 77 percent of the water supply to 2.5 million residents in north and central Orange County.

The Orange County Sanitation District (OCSD) provides wastewater collection, treatment, disposal, and recycling services for approximately 2.6 million people in central and northwest Orange County.

GWRS is a joint collaboration between OCWD and OCSD.

For more information on the GWRS: www.ocwd.com/gwrs

PRODUCT

30

million gallons per day of additional drought-proof drinking water supply

STATUS

Permitting: complete
 Feasibility Study: complete
 Engineering: complete
 Funding: complete

COST

\$310 million

CONSTRUCTION

begins 2019
 completed by 2023

JOBS

700

construction-related jobs for three years

For more information on the GWRS: www.ocwd.com/gwrs

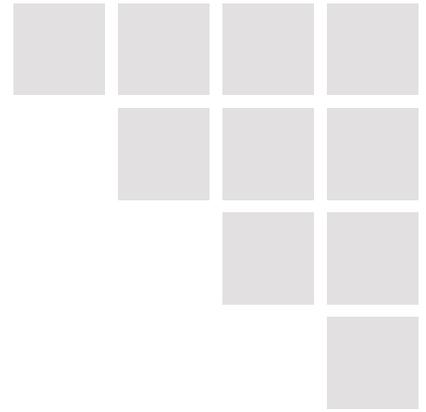



January 2020

Fact Sheet

OUTREACH

Construction



ORANGE COUNTY SANITATION DISTRICT

CONSTRUCTION ALERT

MACARTHUR PUMP STATION

Construction Activity at the MacArthur Pump Station August 2 – 4, 2019

What: Orange County Sanitation District (OCSD) will be replacing two existing valves at our MacArthur Pump Station.

A bypass pumping operation will be in place during the work to continue to provide uninterrupted wastewater services to the community while the pump station is temporarily out of service.

A temporary bypass system of pumps and above ground pipes will require traffic control and lane closures along southbound MacArthur Blvd. Driveways will remain accessible. Left turns will not be allowed for northbound MacArthur Blvd. between Newport Plaza Dr. and Birch St.



When: Continuous work starting Friday, August 2 at 8 p.m. to Sunday, August 4 at 8 p.m.

Where: MacArthur Pump Station located at 4219 MacArthur Blvd., Newport Beach

Above ground bypass pipes and traffic control will extend along MacArthur Blvd. between Michelson Dr. and Von Karman Ave./Newport Plaza Dr.

Why: Operational equipment are nearing the end of their useful life and need replacement. This work is being done during the weekend to minimize impacts to traffic.

The pump station is critical to the conveyance of wastewater to 2 regional treatment facilities located in Fountain Valley and Huntington Beach. If the pump station is not operational 24 hours a day, there could be a sewer back up eventually leading to a sewage spill.

If you would like additional information, please call our dedicated **Community Liaison** on the **Construction Hotline (714) 378-2965** or e-mail **ConstructionHotline@ocsd.com**

For immediate assistance while the work is taking place, please call the OCSD Control Center at (714) 593-7025

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Mailer

ORANGE COUNTY SANITATION DISTRICT
10844 Ellis Avenue, Fountain Valley, CA 92708-7018

CONSTRUCTION ALERT

SEE INSIDE
For More Information

Stay informed
Call the Construction Hotline at (714) 378-2965
Email ConstructionHotline@ocsd.com
Visit www.ocsd.com

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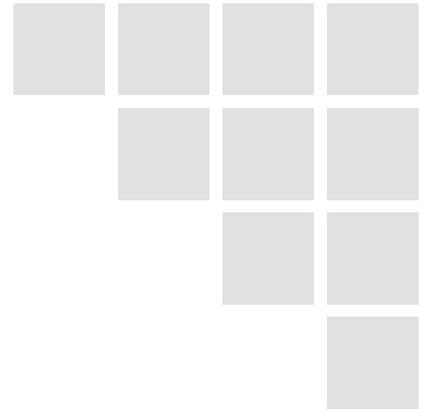


The Orange County Sanitation District is a public agency that provides regional wastewater collection, treatment, and recycling services for approximately 2.6 million people in central and northwest Orange County.



OUTREACH

Construction



Orange County Sanitation District

WARNING



No Parking



Monday - Friday, 9 a.m. to 1 p.m.

The Orange County Sanitation District maintenance crew needs access to the driveway for schedule maintenance work.

This odor control dosing station allows OCSD to keep the odorous smells away.

PLEASE NOTE: Costa Mesa Police Department will be **ISSUING CITATIONS** to individuals who do not comply.

Questions? Please refer to posted signs.

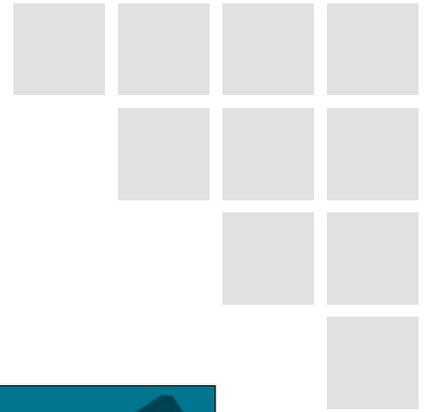


10844 Ellis Ave., Fountain Valley, CA 92708-7018
www.ocsd.com

Notice

OUTREACH

Construction



WORKING WITH **OCSD**

**Over the next ten years,
OCSD's Capital Improvement Program plans to
spend \$2.8 billion in projects, which include:**

**TPAD DIGESTER FACILITY AT PLANT
NO. 2, PROJECT NO. P2-128**

Construction Estimate: \$265,100,000
Consultant RFP Advertise Date:
January 2020

This project will enhance the existing
anaerobic digesters and build six new
thermophilic digesters, Class A batch
tanks, and cooling facilities.

**HEADWORKS REHABILITATION AT
PLANT NO. 1, PROJECT NO. P1-105**

Construction Estimate: \$291,800,000
Advertise for Bid: July 2020

Rehabilitate and upgrade facilities at
the Plant No. 1 Headworks, including
Metering and Diversion Structure, the
Bar Screen Building, the Bin Loading
Building, the Main Sewage Pump
Station, the Grit Basins, the Primary
influent channels, the Headworks Odor
Control Scrubbers, and electrical power
distribution and control systems.

**HEADQUARTERS COMPLEX,
PROJECT NO. P1-128A**

Construction Estimate: \$99,100,000
Advertise for Bid: July 2020

Construct a new headquarters building
to house administrative and engineering
staff in the City of Fountain Valley.

**A-SIDE PRIMARY CLARIFIERS
REPLACEMENT AT PLANT NO. 2,
PROJECT NO. P2-98A**

Construction Estimate: \$143,000,000
Advertise for Bid: October 2020

Demolish and replace four existing
A-Side Primary Clarifiers with flat
covers; replace the South Scrubber
Complex with a dual stage chemical
scrubbing odor control treatment system;
replace existing utilities; demolish
power building; and install a new power
building.

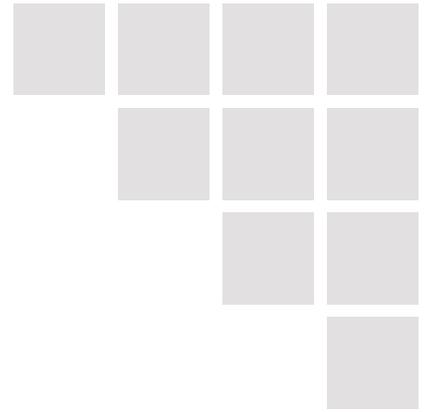
**For a list of all upcoming design consultant and construction
bid opportunities, visit www.ocsd.com/bids**



Event Sign

OUTREACH

Construction



the neighborhood connection



published by the orange county sanitation district

(Vol. 1, No. 7) Fall 2019

READY, SET, GO!

Construction Begins

The world's largest potable water reuse project is getting BIGGER. The **Final Expansion** of the **Groundwater Replenishment System** (GWRS) will allow us and the Orange County Water District (OCWD) to recycle an additional 30 million gallons of water per day (MGD) for a grand total of **130 MGD**. This system allows us to decrease our dependence on imported water by producing enough water for one million Orange County residents. We've shared with you in previous newsletter issues that in order to meet the 130 MGD goal we need to take flow from Plant No. 2 in Huntington Beach and pump it up to the GWRS facility in Fountain Valley. What we haven't told you is what that means for **Plant No. 2**.

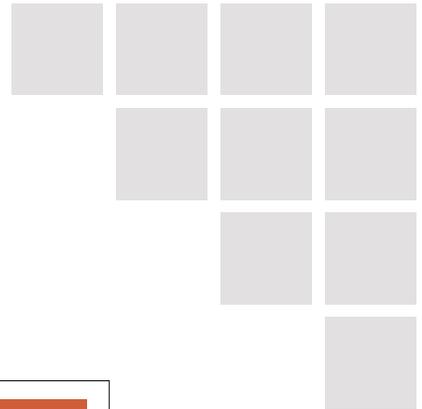
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Over the next several years, **Orange County Sanitation District's** (OCSD) Capital Improvement Program is focusing on infrastructure and resource recovery. This OCSD publication is to keep you, our neighbors, informed about construction activities at our Huntington Beach treatment facility (Plant No. 2).

Plant No. 2
Neighborhood Newsletter

OUTREACH

Construction



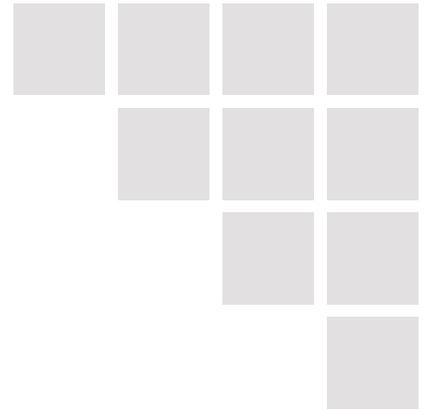
Thank You Card

City Planner
Marketing Piece
Sample Mug



OUTREACH

Construction



How we install SEWER PIPES

TRAFFIC CONTROL

First step is to establish the work zone by setting up lane closures, traffic cones, k-rail, etc. This helps provide a safe work area.

SEWER BYPASS

A bypass system is installed to redirect the sewer flow to be able to replace the aged pipe while maintaining sewer service.
(If pipe is installed a new alignment bypass is not required.)

PIPE INSTALLATION

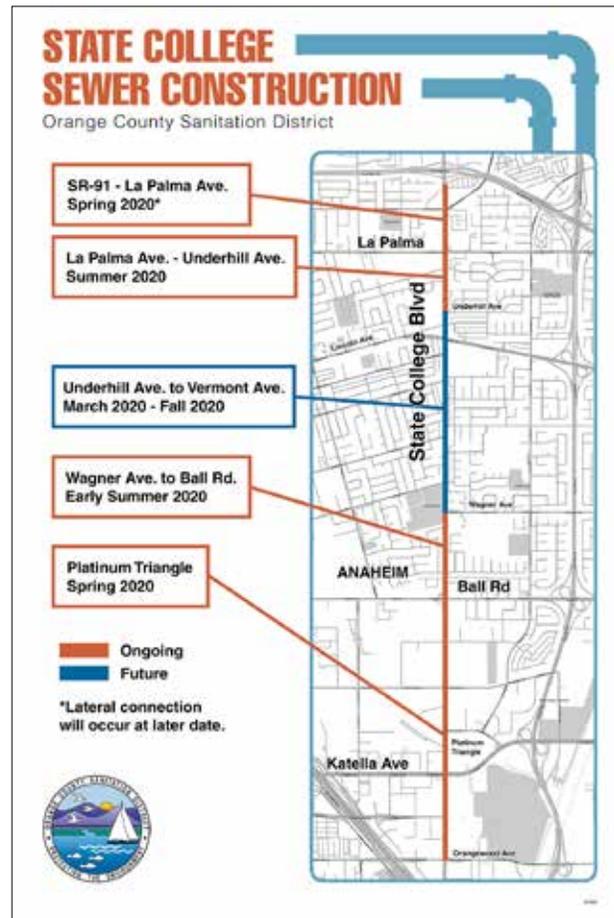
After area is excavated, shored, and prepared, the pipe is installed segment by segment (pipe segments vary in length based on size of the pipe).

MANHOLE CONSTRUCTION

Once pipe is installed, the manholes are constructed to allow access in the future for maintenance and operation of the line.

STREET RESTORATION

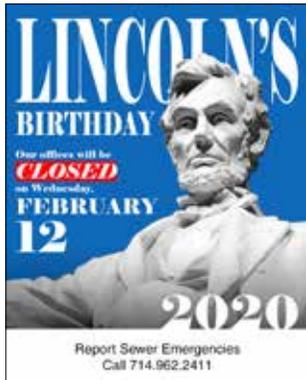
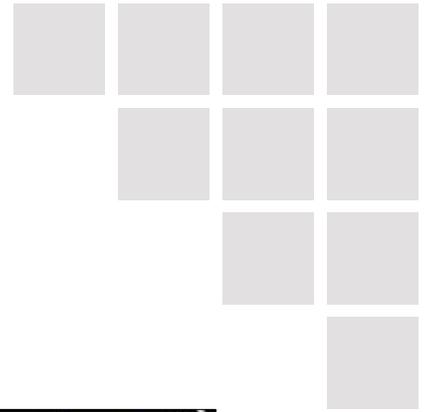
Repair of medians and curb and gutter that may have been impacted. The last step is to pave and restripe the road back to its original condition.



Poster

OUTREACH

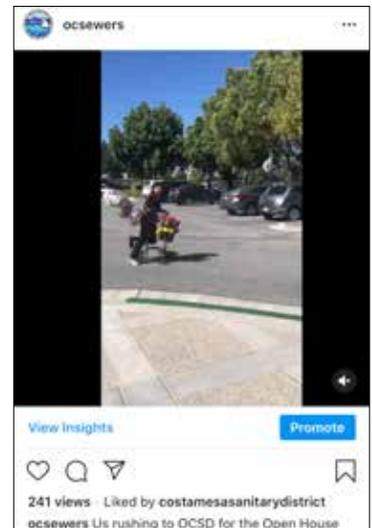
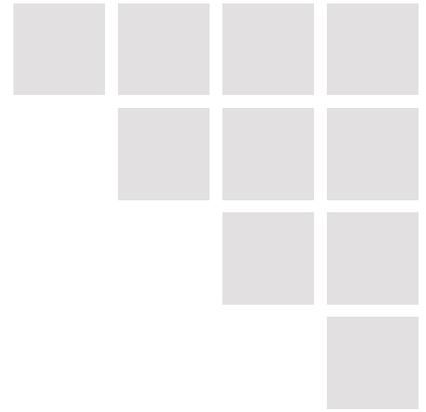
Social Media



Social Media Art

OUTREACH

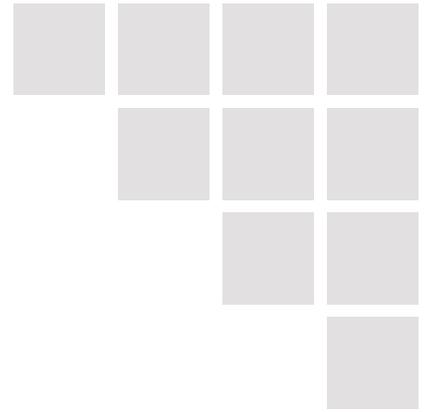
Videos



Videos

OUTREACH

Events



A SENSE OF PURPOSE

ORANGE COUNTY SANITATION DISTRICT

185 million gallons of wastewater a day. That's enough to fill Angel Stadium more than **2 times** in a 24 hour period.

We supply **130 mgd** of treated wastewater to OCWD for the **Groundwater Replenishment System**. It is used to produce **100 mgd of purified water**.

OCSD maintains nearly **400 miles** of regional sewer pipelines in Orange County.

Through the wastewater treatment process, we produce enough **electricity** to power a city the size of **Brea**.

WHAT 2 FLUSH

Do you know what should go down the drain that is **sewer safe**? It's simple, the toilet is only meant to flush the three Ps— **pee, poop, and paper**.

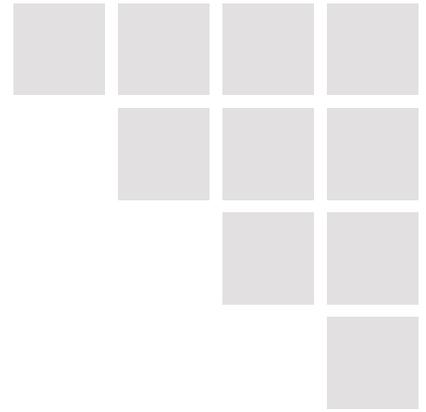
Follow us on social media @OCSEWERS.
Visit us at www.OCSD.com

CELEBRATING **65** YEARS
ORANGE COUNTY SANITATION DISTRICT

Event Sign

OUTREACH

Award





Planning for Future Risks: CLIMATE RESILIENCE

AT ORANGE COUNTY SANITATION DISTRICT

Climate Forces Considered as Part of the Study

OCS&D is constantly striving to be resilient, reliable, and forward-thinking. Recognizing the value of our infrastructure and the risks posed by different forces of nature, we have conducted a climate resiliency study to better prepare for the future.

Flooding threats: Infrastructure near the coast and major channels, including Plant No. 2 and a number of pump stations.



Coastal infrastructure is vulnerable to tsunamis.



Fire and flying embers are a risk to buildings near heavy vegetation.



Island areas are subject to higher temperatures and longer heat waves.



Greenhouse gases, such as carbon dioxide, impact the earth's atmosphere and climate.



Vulnerabilities

By focusing efforts on high priority infrastructure and understanding site-specific risks, OCS&D can provide resiliency and adaptability within upgrades to infrastructure and facilities.



Adaptation Planning for Infrastructure

Building Level Flood Protection



Boundary Level Flood Protection

Floodwall



A typical floodwall design to withstand storm

Achieving Greenhouse Gas (GHG) Emission Goals



Flooding in Orange County

Many of OCS&D's facilities are located near the coast, enclosed bays, or rivers, making flooding a major risk to the services provided by OCS&D.



Climate change is expected to result in more extreme storms, increased flood depths, and raised sea levels.



Safety and Access



Possible Sewer Backups



Water Quality Impacts and Environmental Damage



Flood Protection and Resiliency

Simple adaptations can be incorporated into individual facilities to protect against flooding. Building level solutions generally protect a greater number of assets at a lower cost than asset level solutions by preventing flood water from entering the facility.

Updating design - Incorporating flood and seawall design into the design process to ensure that all assets are protected.

Integrating equipment, operations, and maintenance - Incorporating design into emergency response plan.

Integrating climate resiliency into capital projects - Incorporating climate resiliency into the main goal of the project (i.e., in complying with permit that also provides flood protection).

Orange County Sanitation District Climate and Catastrophic Event Resilience Policy

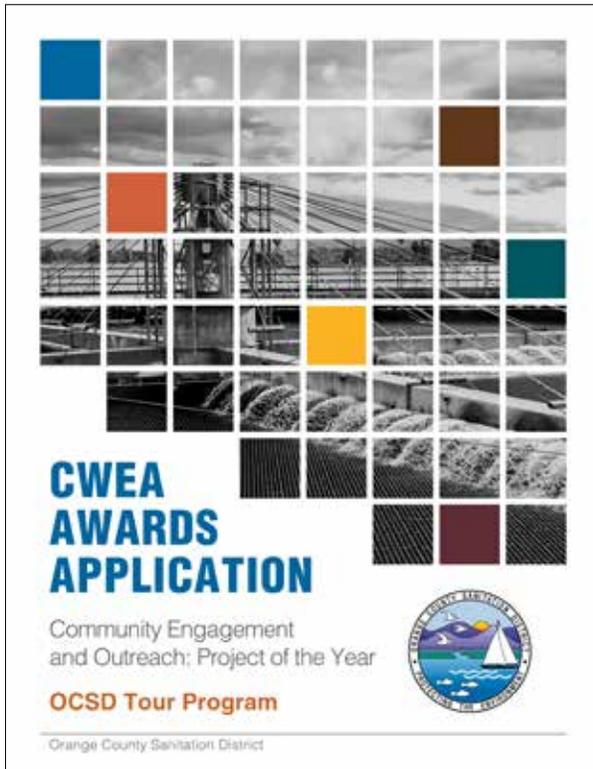
The Sanitation District aims to design, maintain, and operate valuable wastewater assets that withstand or adapt to adverse conditions in a reasonable manner that is both cost-effective and sustainable for present and future generations. These adverse conditions include heavy rains, flooding, sea level rise, earthquakes, tsunamis, extreme heat, wildfires, and electrical grid interruptions.



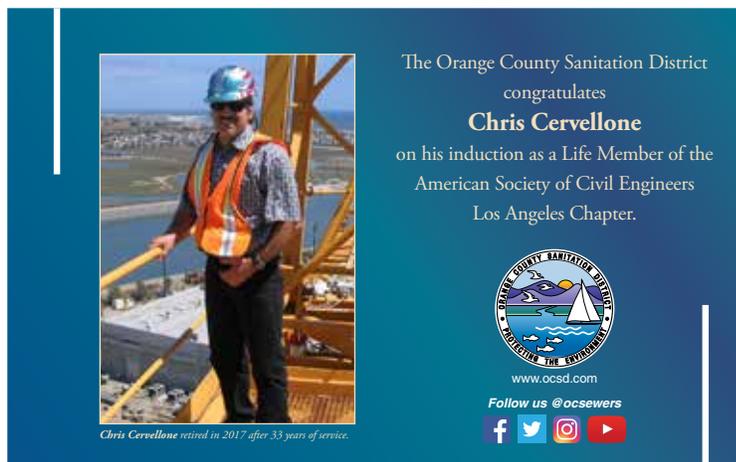
Poster

OUTREACH

Award



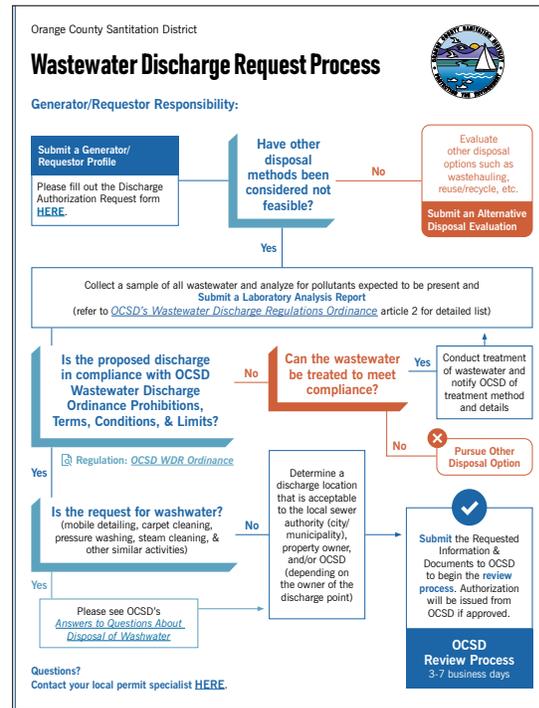
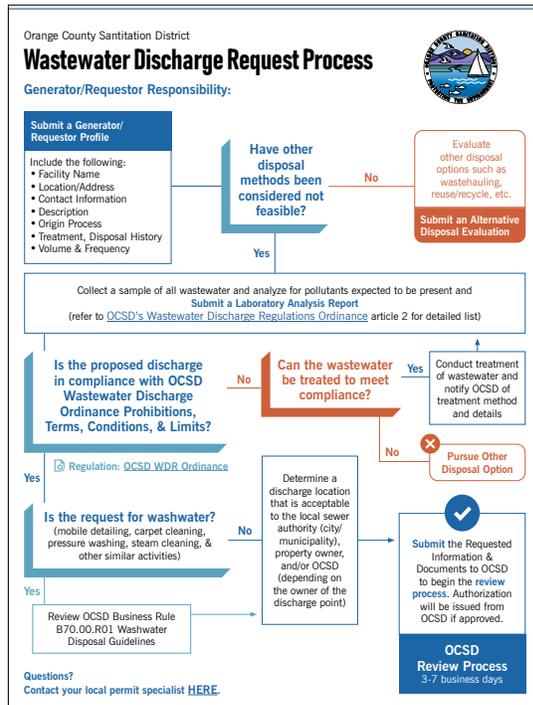
Application



Program Advertisement

OUTREACH

Other



Flyer

GUIDING PRIORITIES

- Seek funds for OCSD projects through grants, appropriations, or other means;
- Maintain local control over governance of special districts and other local entities;
- Oppose redundant regulatory requirements;
- Support legislative regulatory streamlining that promotes public health and the environment.

@OCSEwers

10844 Ellis Avenue, Fountain Valley, CA 92708, www.ocsd.com
 01/2019

ORANGE COUNTY SANITATION DISTRICT

**2020 LEGISLATIVE PRIORITIES
 KEY MESSAGE CARD**

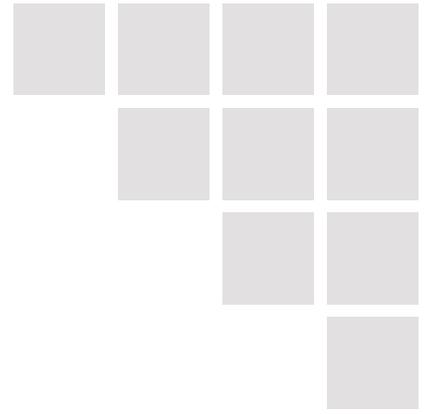
Legislative Card

STATE

- **Secure funding for infrastructure, collection improvements and renewable energy** at the Fountain Valley Plant No. 1 and Huntington Beach Plant No. 2.
- Support legislation or regulations that **restrict the use of microplastics or wipes** and the disposal into the sewer system.
- **Work with legislators to ensure that unrealistic regulations** are not placed on wastewater treatment facilities.

FEDERAL

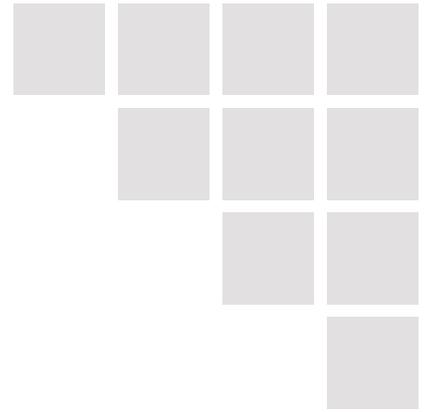
- **Advocate for federal water infrastructure funding** including State Revolving Fund and the Water Infrastructure Improvements for the Nation (WIIN) Act.
- **Work with the Administration and Congress to advance permitting processes** including 10-year National Pollutant Discharge Elimination System (NPDES) permits.
- **Promote restoration of federal deductibility of state and local tax payments** and oppose elimination or restriction on the use or availability of tax-exempt financing for public infrastructure.



SPECIAL EVENTS

SPECIAL EVENTS

Centrifuge Ribbon Cutting



CENTRIFUGE FACILITY
Ribbon Cutting

Saturday, July 27, 2019

Continental Breakfast and Networking

Welcome and Introductions
Supervisor, **Michelle Steel**

Opening Remarks
Board Chairman, **David Shawver**

Centrifuge Ribbon Cutting Presentation
General Manager, **Jim Herberg**

Official Ribbon Cutting and Conclusion
Vice Chairman, **John Withers**

Tour immediately following program



Invitation



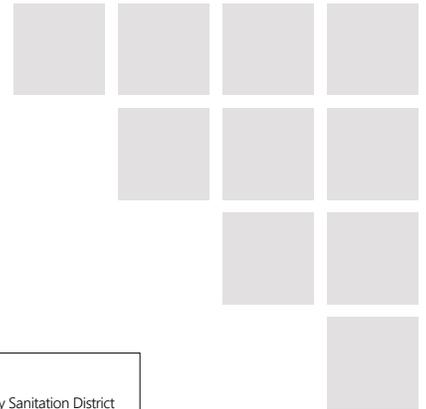
**CENTRIFUGE
FACILITY**

Ribbon Cutting

Poster

SPECIAL EVENTS

State of the District



Save the Date

Orange County Sanitation District

State of the District Breakfast

Friday, October 25, 2019
8 a.m. - 10 a.m.

Join our Board of Directors and General Manager as we discuss our accomplishments and exciting advances.

Mile Square Golf Course Clubhouse
10401 Warner Avenue
Fountain Valley, CA 92708

An optional tour of our Fountain Valley Plant No. 1 will take place immediately following the event.

For more information or questions email: forinformation@ocsd.com

— 65 Years of Impressions —

Save the date

Orange County Sanitation District

State of the District Breakfast

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— 65 Years of Impressions —

Invitation

Orange County Sanitation District

State 2019 of the District Program

Friday, October 25
8 a.m. - 10 a.m.

Breakfast and Networking

Call Meeting to Order
Board Chairman, David Shawver

Welcome and Pledge of Allegiance
Board Chairman, David Shawver

State of the District Presentation
General Manager, Jim Herberg

Adjourn Meeting
Board Chairman, David Shawver

Facility tour immediately following program. A bus will be available to take you to our OCSD Plant No. 1 Headquarters located at: 10844 Ellis Ave., Fountain Valley, CA

FOLLOW US @OCSEWERS
#OCSDStateOfTheDistrict

www.ocsd.com

— 65 Years of Impressions —

Program

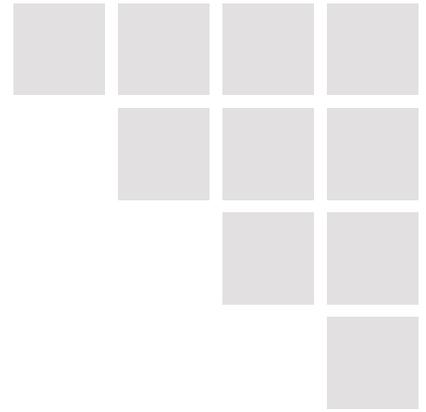
State of the District

65 Years of Impressions

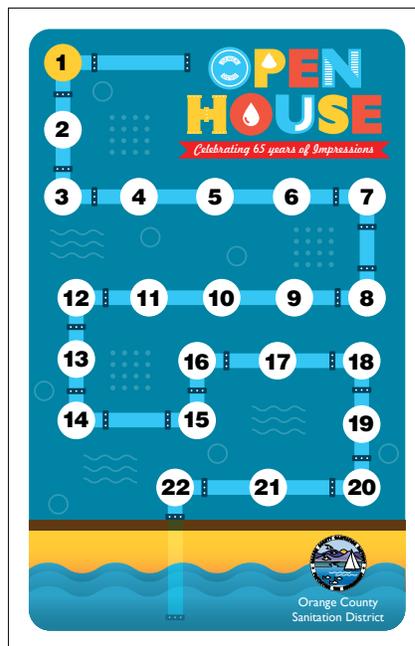
Lapel Pin

SPECIAL EVENTS

Open House



Banners



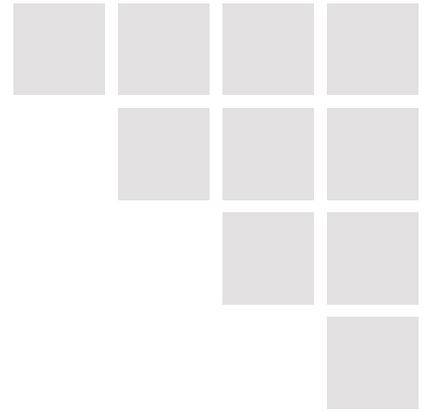
Passport



Banners

SPECIAL EVENTS

Open House



Poster



Poster

TESLA BATTERY STORAGE SYSTEM

Largest behind-the-meter battery storage system in the United States

How Many Battery Cells?

- 1,020 per pod
- 16,320 per Powerpack
- Over 2.4 million total

How Much Capacity?

- 5 megawatts, 31 megawatt hours
- Same number of battery cells as 547 Tesla Model 3s (long range model)
- Enough energy to supply 1,675 houses for a day (18.5 kwh/day per house)

Savings?

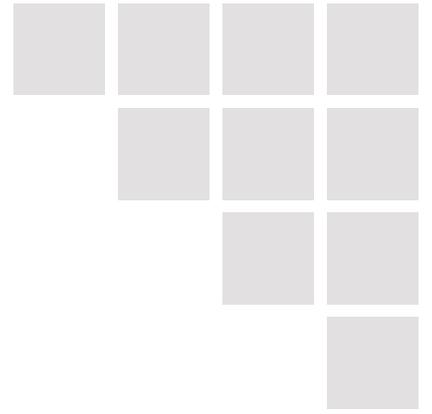
- Anticipate saving of \$450,000 per year
- Saving occurs by reducing peak energy demand charges
- Operates during peak power or when requested by the utility

Battery Cell (Tesla 2170)
Pod (16 per Powerpack)
Powerpack (900VDC)(148 Total)
Inverter (Converts 900VDC to 480VAC)
(8 Total)

Advanced Microgrid Solutions

50 YEARS

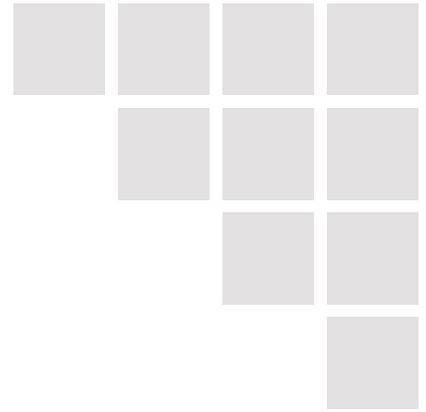
Poster



INTERNAL PROJECTS

INTERNAL PROJECTS

Employee Communications



ORANGE COUNTY SANITATION DISTRICT
pipe line
July/August 2019
YOUR SOURCE FOR OCSD NEWS AND INFORMATION

Summer Time Fun

Thank you to the following employees who shared their summer memories, vacations and adventures.

(a) Adam McMurdy, Senior Mechanic; (b) Paul Ayala, Engineering Associate; (c) Pinky Burke, Data Management Tech II; (d) Monica Sanchez, Contract/Purchasing Assistant; (e) Joshua Martinez, Info Tech Analyst II; (f) Brian Finkelstein, Associate Engineer; (g) Bobby Martinez, Storekeeper; and (h) Bob Bell, Maintenance Supervisor

Employee Bi-Monthly Newsletter

the digester
APRIL 2020
ORANGE COUNTY SANITATION DISTRICT

Social Distancing: A New Reality

We keep hearing that we need to implement social distancing to help stop or slow down the spread of COVID-19. What is social distancing? Put simply, it means avoiding crowds.

To comply please do the following:

- Stay at least 6 feet away from other people.
- Avoid handshaking, hugging or other intimate types of greetings – greet others with a wave, nod or bow instead.
- Avoid non-essential travel.
- Avoid crowds, especially in poorly ventilated spaces.
- Do not go out if you are sick or think you are sick. Immediately call your doctor.

Use Microsoft Teams to Communicate

As a reminder, Teams can be used to communicate effectively amongst individuals or groups.

Chats, conference calls, and sharing your desktop are all great ways to communicate from a distance.

If you have any questions, please contact the **Service Desk at x4357** or click **IT Services** on **MyOCSD**, scroll down to **Microsoft Teams**.

YOUR SMARTPHONE KNOWS ALL YOUR SECRETS

Put it on lockdown with these tips

- **Update your operating system and apps:** Many software updates contain bug fixes and security improvements that guard your smartphone against data breaches, intrusions and vulnerabilities.
- **Lock your smartphone:** Always engage a six-digit passcode to access your device. Consider fingerprint scanning and Face ID as a fast alternative.
- **Turn your Bluetooth and Wi-Fi off when not in use:** Bluetooth channels are a common form used by hackers to invade your privacy.

Lab Heroes – OCSD@Work

Thank you to the **Laboratory** team for preparing the first batch of bleach-based disinfection spray (150 bottles to be exact). This will help us keep common areas clean due to the COVID-19 pandemic.

In order to minimize disruption to regular laboratory operations, division managers are to submit orders/requests to the lab on behalf of their team and arrange pick up.

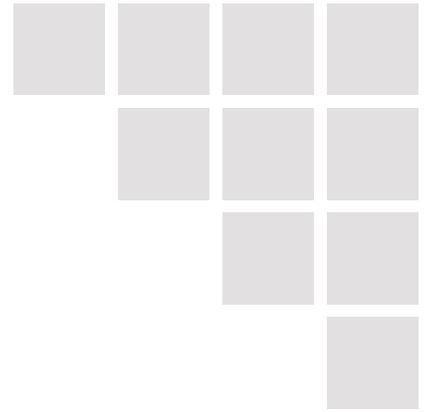
TOP: Elaine Galvez and Anthony Pimental; BOTTOM: Marie Duzak, Joel Finch, Joseph Robledo and Brandon Yokoyama, Civ. 630

Please be sure to obtain supervisor approval for all events and presentations during work hours.

Monthly Bulletin

INTERNAL PROJECTS

Employee Event - VIP Luncheon



Certificate

Staff
Appreciation
Giveaway



INTERNAL PROJECTS

Employee Event - Harvest Festival

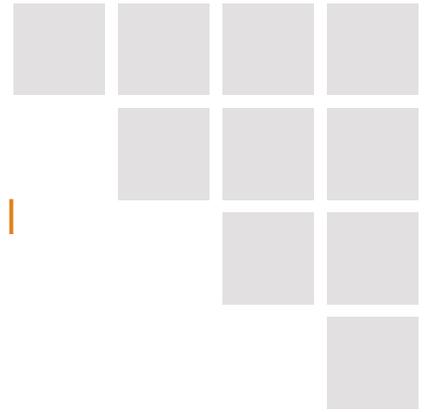


Table Tent



Backdrop



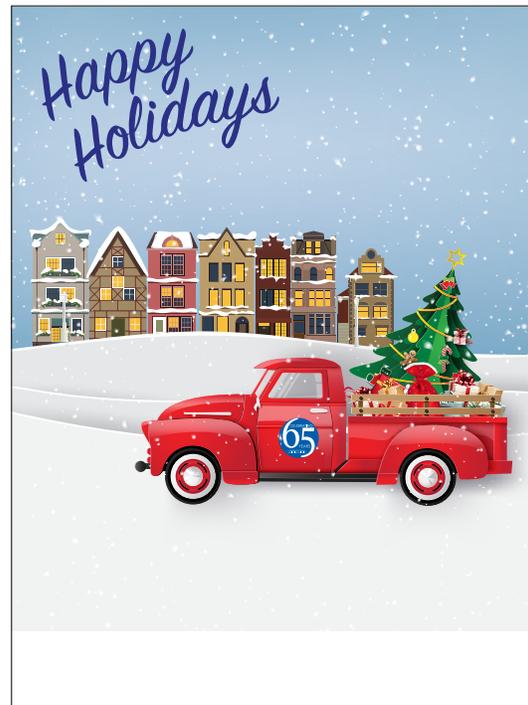
Web Banner

INTERNAL PROJECTS

Employee Event - Holiday Luncheon



MyOCSD Banner



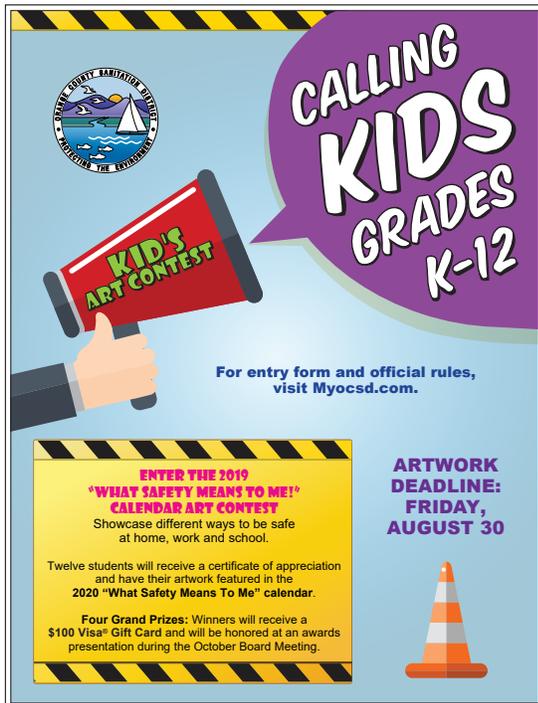
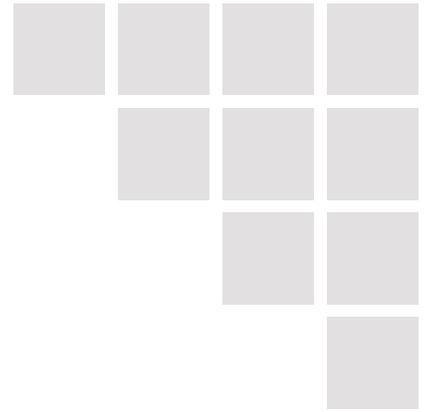
Backdrop



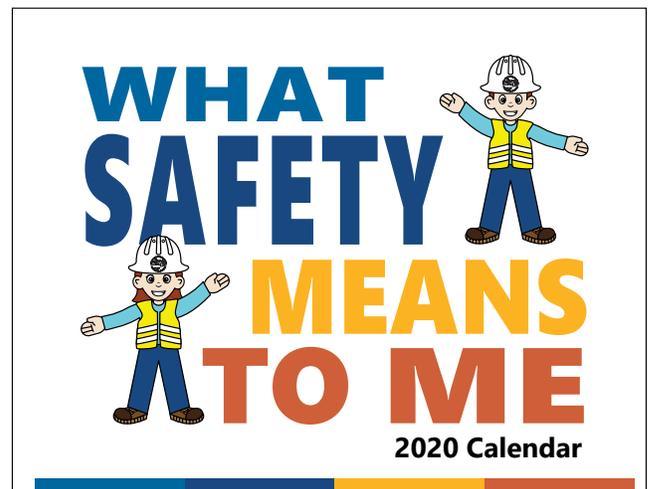
Staff
Appreciation
Giveaway

INTERNAL PROJECTS

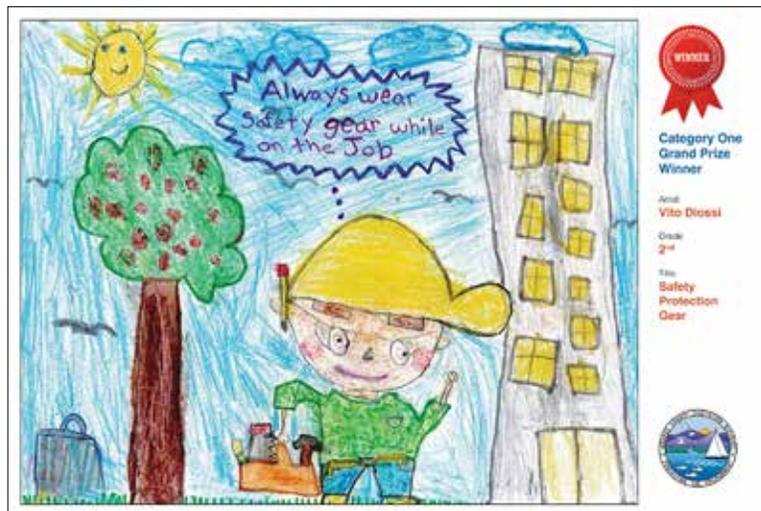
Safety Contest



Flyer



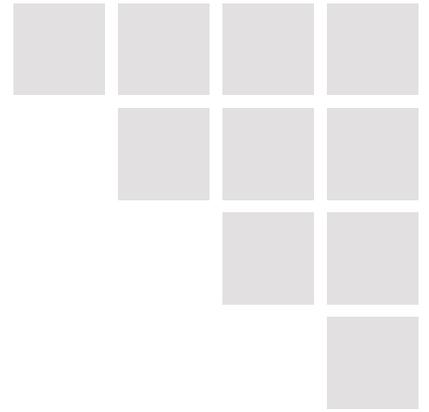
Calendar



Winning Poster

INTERNAL PROJECTS

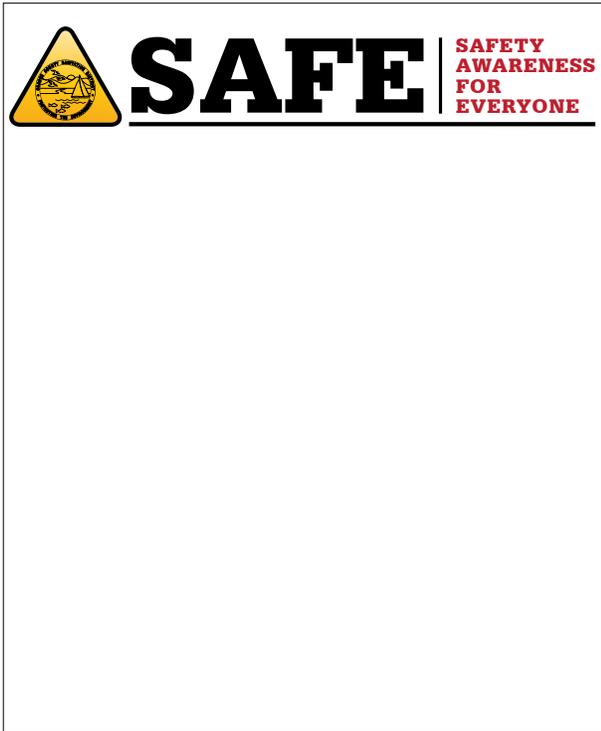
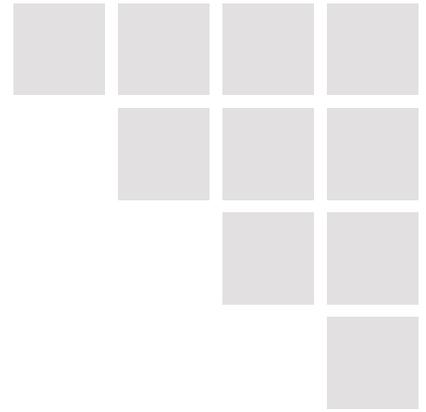
Cards



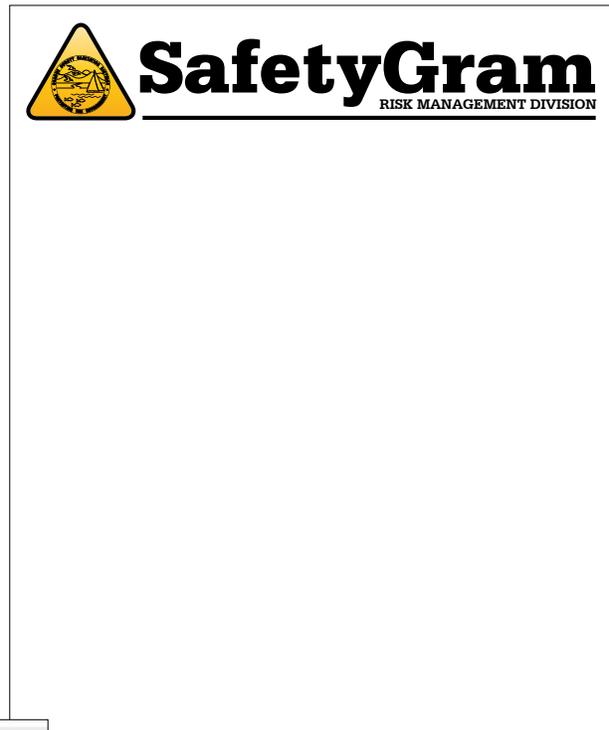
General Manager's
Holiday Card

INTERNAL PROJECTS

Risk



Bulletin



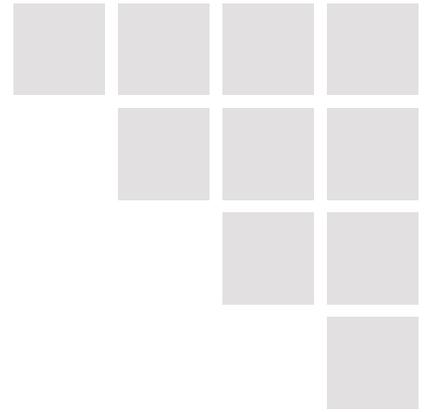
Gram



MyOCSD Sharepoint Page

INTERNAL PROJECTS

Employee Event



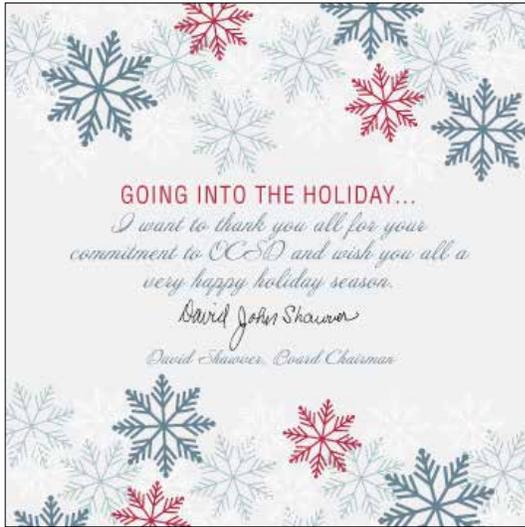
Poster



Sticker

INTERNAL PROJECTS

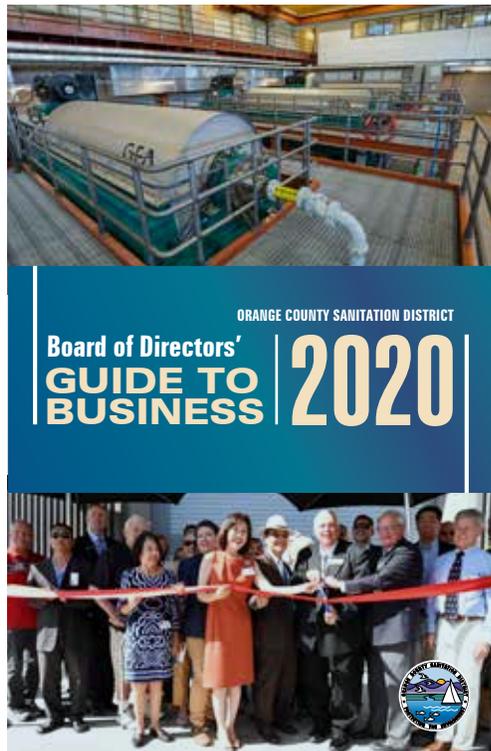
Board Member Outreach



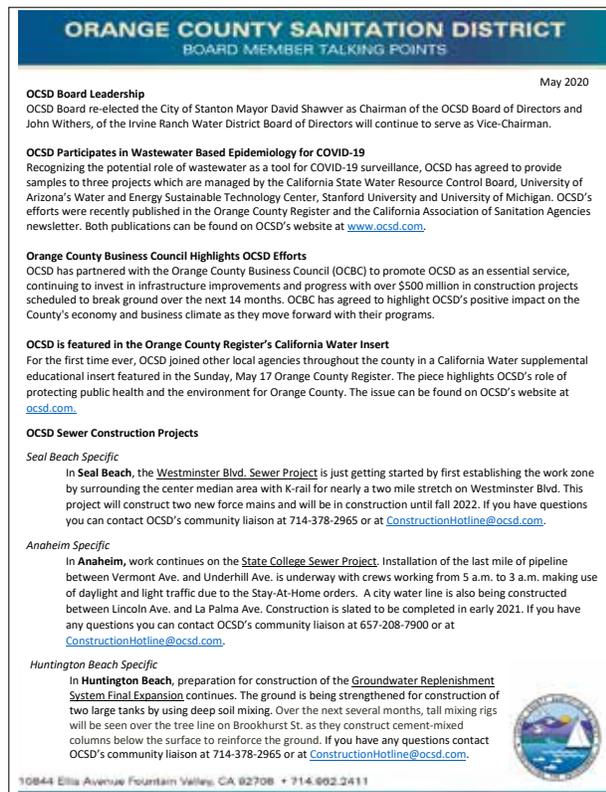
Email Message



MyOCSD Post



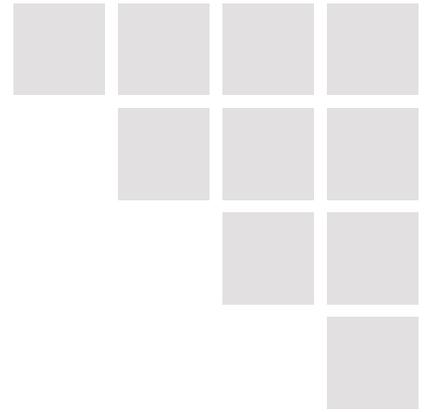
Board Member Book



Board Member Talking Points

INTERNAL PROJECTS

Human Resources



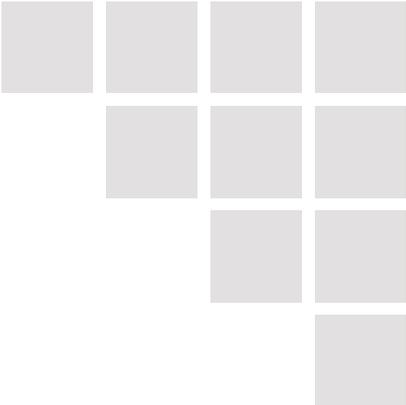
Postcard



Banner

INTERNAL PROJECTS

Human Resources



Poster



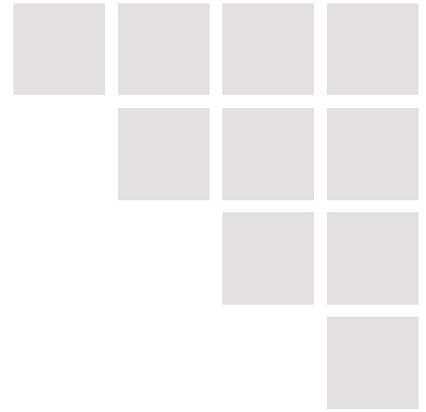
Retirement Slide



Sticker

INTERNAL PROJECTS

Human Resources



Ergonomics for Telecommuters

The purpose of these guidelines is to assist employees working from home with setting up an effective work space to improve safety, comfort and productivity.

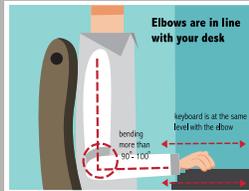


Designated Work Area

- Before beginning work, assess your work area to ensure it is free from trip hazards such as boxes, loose cords, open drawers, kid's toys, etc.
- Although it may be tempting to work from your bed, couch or bent over a coffee table, it is important to choose a standard table to improve comfort and overall body positioning. A couch or a bed does not provide stability and may cause discomfort to the body.
- Work at a desk or table with adequate knee and foot clearance so that you can sit/stand close to your laptop or monitor.
- Setup your work area with everything you need.
- Make sure your work area has adequate lighting.
- While on the phone, use a headset or handsfree device.

Chair Selection

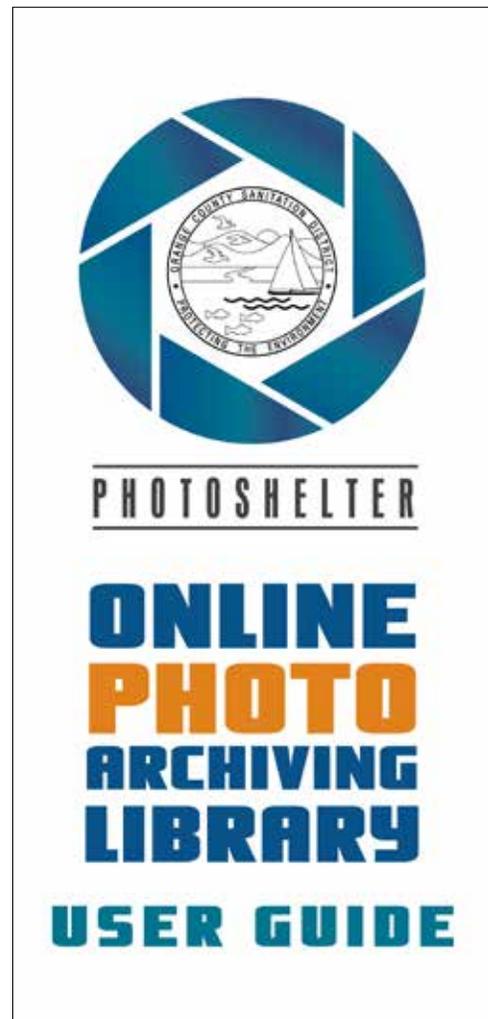
- If possible, use an adjustable chair to maintain a 90-degree bend in your knees, waist, and elbows.
- If needed, use a rolled-up hand towel for extra lower back support.
- If your chair is too low, sit on a cushion to raise your seat height or extend your feet to allow for proper blood circulation.
- If your chair is too high, use a box as a footrest for support.



Posture

- Maintain an upright posture, avoid slouching.
- If sitting, try to ensure that the small of your back is supported, your shoulders are relaxed (not slumped, not elevated), and that there is no unwelcome pressure on the back of your knees.
- If standing (e.g. at your kitchen worktop), keep your legs, torso, neck and head approximately in line and vertical – don't slouch, lean or twist to the side.
- Be cautious of resting body parts on edges which can create a contact stress.

Handout



Brochure

INTERNAL PROJECTS

Human Resources



GIS MATCHING TOOL

Looking for a rideshare partner? Try the new GIS Matching tool.

OCSD employees can identify and connect with other employees based on their ridesharing needs within their area. Employees can indicate their rideshare preferences and their general living vicinity without using their exact address!

Simple and easy!

- » Go to MyOCSD and click on Rideshare under Employee Center.
- » To find fellow rideshare users, click on the GIS Matching tool button.
- » To sign up for Rideshare Program, click on Employee Rideshare Interest button.

For more information, contact **Laurie Klinger** at ext. 7169 or **Adam Montoya** at ext. 7026



Flyer



The Rideshare Team is pleased to announce the new cash incentive pilot program is NOW AVAILABLE!

You can EARN CASH for your commute:

Mode of transportation	Incentive
Vanpool*	Up to \$55 monthly subsidy***
Walk/Bicycle	\$30 monthly subsidy***
Bus	\$20 monthly subsidy***
Carpool/Train/Electric Vehicles**	\$10 monthly Subsidy***

More information is available on MyOCSD.

To learn more about the Rideshare Program, visit MyOCSD's Employee Center Tab then choose Rideshare to see all the current incentives.

*Amounts are calculated monthly and vary based on vehicle size and number of participants. The maximum cash incentive for vanpooling is \$55 per month. Vanpool cash incentives are not taxable.

**To qualify for subsidy, vehicle must be designated as a Zero Emissions Vehicle (ZEV). A plug-in hybrid electric vehicle (PHEV) may only be considered if the entire home-to-work trip is made exclusively with electric power.

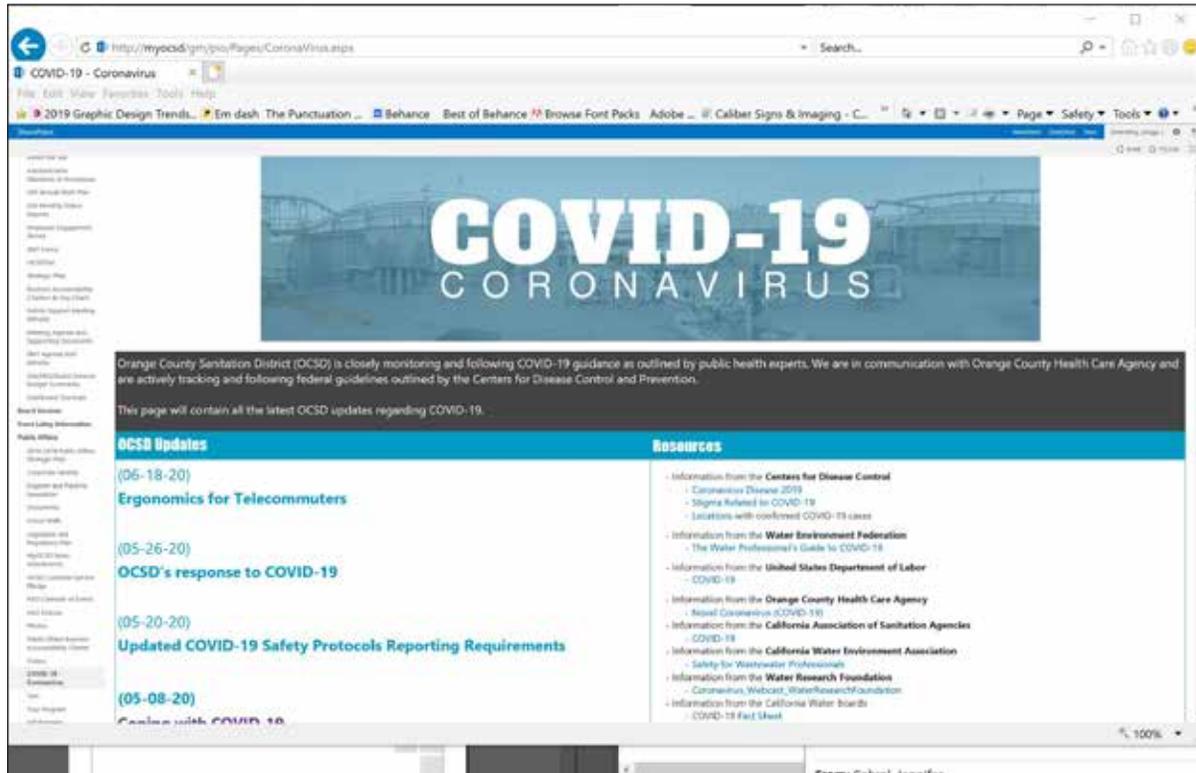
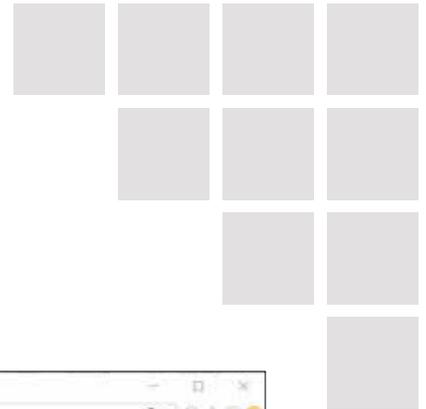
***Requires minimum monthly rideshare days depending on schedule: 5/8 = 10x; 9/80 = 9x; 4/70 = 8x; 3/12 = 7x



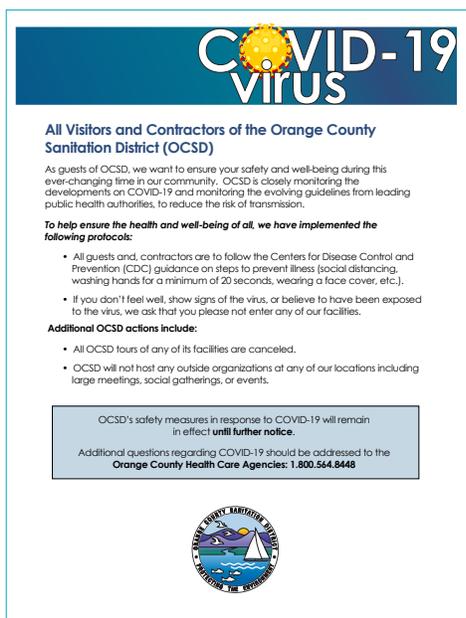
Incentive Flyer

INTERNAL PROJECTS

COVID-19 Communications



MyOCSD Covid-19 Page



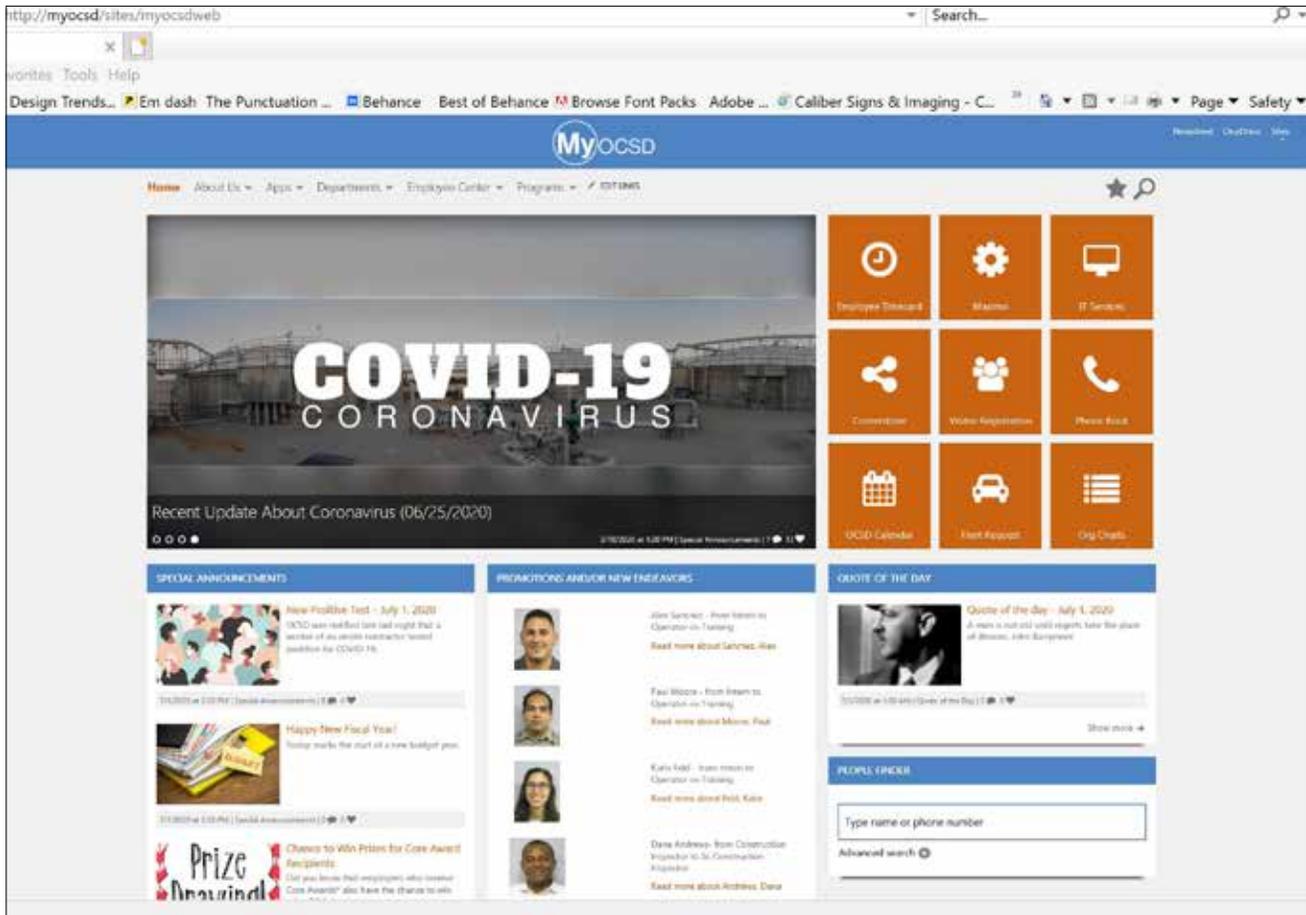
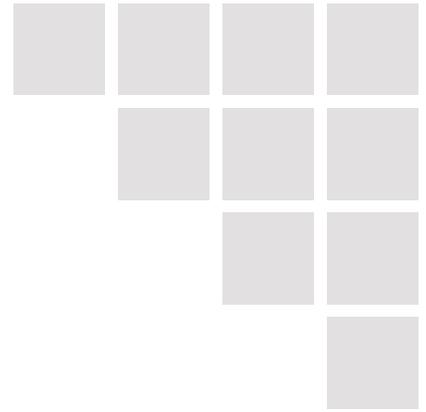
Signage



Face Mask

INTERNAL PROJECTS

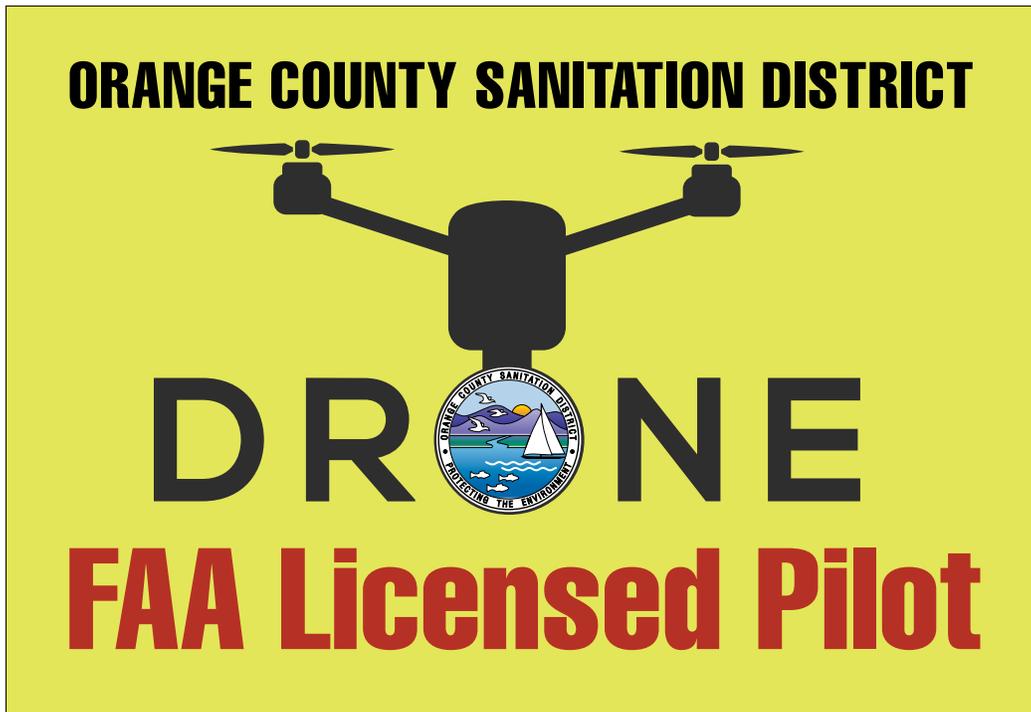
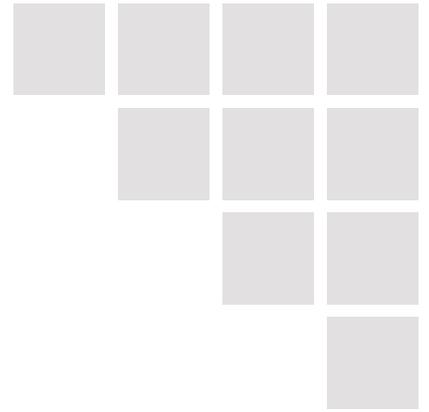
Employee Intranet Site



MyOCSD Home Page

INTERNAL PROJECTS

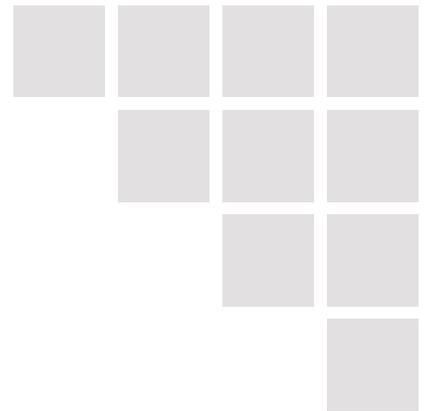
Other



Safety Vest Patch

INTERNAL PROJECTS

Other



OCSD Salutes Our Veterans Past and Present

Row 1: Jennifer Alexander, Gilbert Barela, Bob Bell, John Bellini, Jason Biedermann, Jesse Freeman, Bill Gilbert, Jed Gonzales, Derek Harp

Row 2: Donald Hawthorne, Steve Howard, Ludwig Lopez, Tony Loeb, Steve Lovelle, Adam McMurdy, Michael Moray, Paul Nguyen, Gary Prater

Row 3: Brian Reed, Larry Rebersen, Henry Rossas, Kevin Schuler, Dan Dillon, Patrick McNelly, Mark Mutz, Jim Tindle, Dave Usher

Biographies:

Jennifer Alexander — U.S. Navy, Construction Mechanic 1984-1992 • **Gilbert Barela** — U.S. Army, Corporal, 1992-1996
Bob Bell — U.S. Navy, Electricians Mate, Petty Officer 2nd Class, 1975-1982 • **John Bellini** — U.S. Navy, Boiler Tech, 3rd Class, 1977-1981
Jason Biedermann — U.S. Marine Corp, Corporal-Infantry Squad Leader, 1993-1997 • **Jesse Freeman** — Army National Guard, Sergeant E-5, 1999-2007
Bill Gilbert — U.S. Army, Specialist 4th Class, 1984-1990 • **Jed Gonzales** — U.S. Army, Chief Warrant Officer 3, 1990-1995 and Marine Engineer, 1996-2010
Derek Harp — CA Army National Guard, Captain, 1999-Current • **Donald Hawthorne** — U.S. Navy, 1st Class Engineman, 1984-1992
Steve Howard — U.S. Marine Corps, Sergeant, 1983-1987 • **Roger Kenerson** — U.S. Navy, Aviation Technician 2nd Class, 1970-1977 *(No photo available)*
Ludwig Lopez — U.S. Navy, Petty Officer 2nd Class, 1997-2003 • **Tony Loeb** — U.S. Army, Sergeant, 1973-1976
Steve Lovelle — U.S. Marine Corp, Lieutenant Colonel, 1994-2015 • **Adam McMurdy** — U.S. Army, Rank Specialist, 2000-2004
Michael Moray — U.S. Army, Engineer, 1984-1992 • **Paul Nguyen** — U.S. Air Force, Sergeant, 1985-1992
Brian Reed — U.S. Navy, Aviation Structural and Hydraulics Specialist, 1983-1990 • **Larry Rebersen** — U.S. Air Force, Sergeant, 1991-1999
Henry Rossas — U.S. Navy, Machinist Mate 2nd Class Petty Officer, 1980-1987 • **Kevin Schuler** — U.S. Marine Corps, Sergeant, 1987-1993

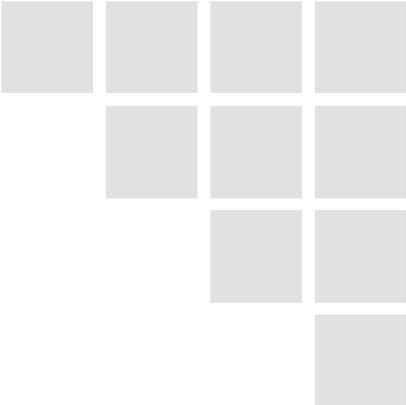
OCSD Retirees
Dan Dillon — U.S. Marine Corp, Sergeant, 1968-1971 • **Patrick McNelly** — U.S. Army, Specialist 5, 1968-1971 • **Mark Mutz** — U.S. Army, Sergeant, 1982-1986
Gary Prater — U.S. Army, Sergeant E-5, 1973-1977 • **Jim Tindle** — U.S. Navy, Petty Officer 1st Class, 1979-1987 • **Dave Usher** — U.S. Marine Corp, 1982-1986

THESE REPRESENT THOSE WHO SUBMITTED PHOTOS TO EMPTON/NDL

Veterans Day Poster

INTERNAL PROJECTS

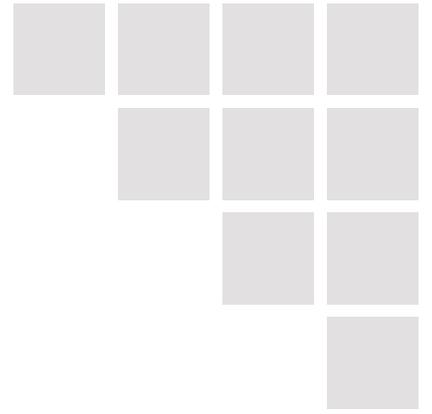
Other



Toy Drive Poster



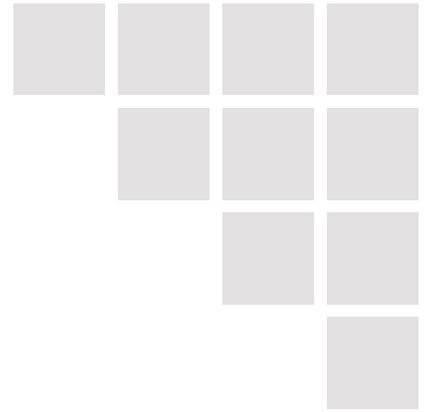
MyOCSD Banner Ad



BRANDING

BRANDING

OCSD University



Logo Concepts

BRANDING

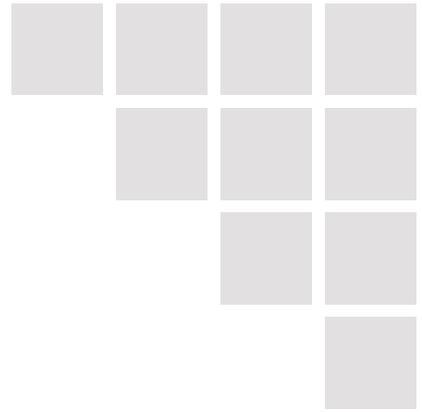
Green Vehicle Branding



Vehicle Signage

BRANDING

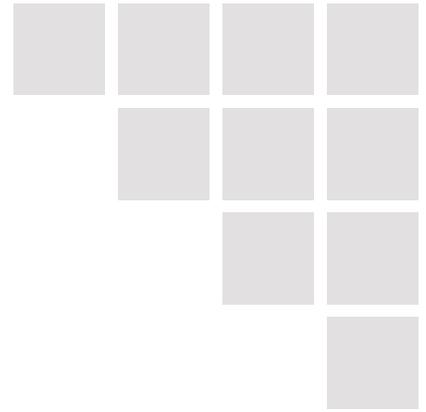
OC SAN Logos



Logo Concepts

BRANDING

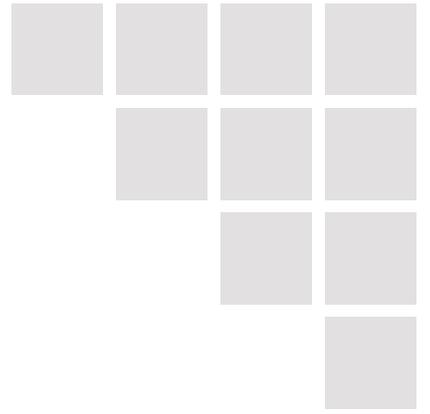
Website



Website Home Page

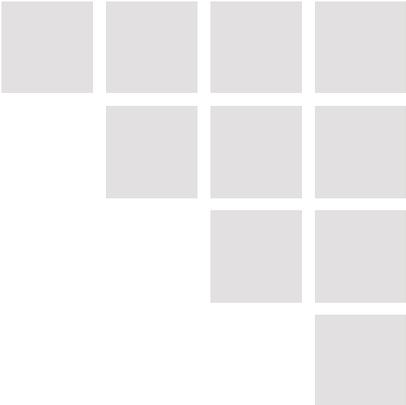


Website — In The News Page



REPORTS

REPORTS



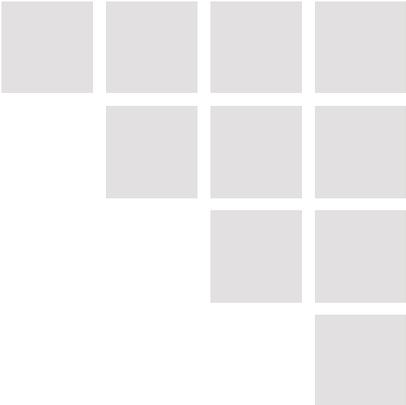
ANNUAL REPORT | 2018-19

**CELEBRATING
65 YEARS OF
IMPRESSIONS**

A collage of nine images showing various water treatment and infrastructure projects. The images include: a large blue and white water tower; a modern white building with a curved facade; a large concrete structure with a ramp; a construction site with scaffolding; a large industrial building; a night view of a water treatment facility with lights; a large circular tank; a construction site with a crane; and a large circular tank with a curved ramp.

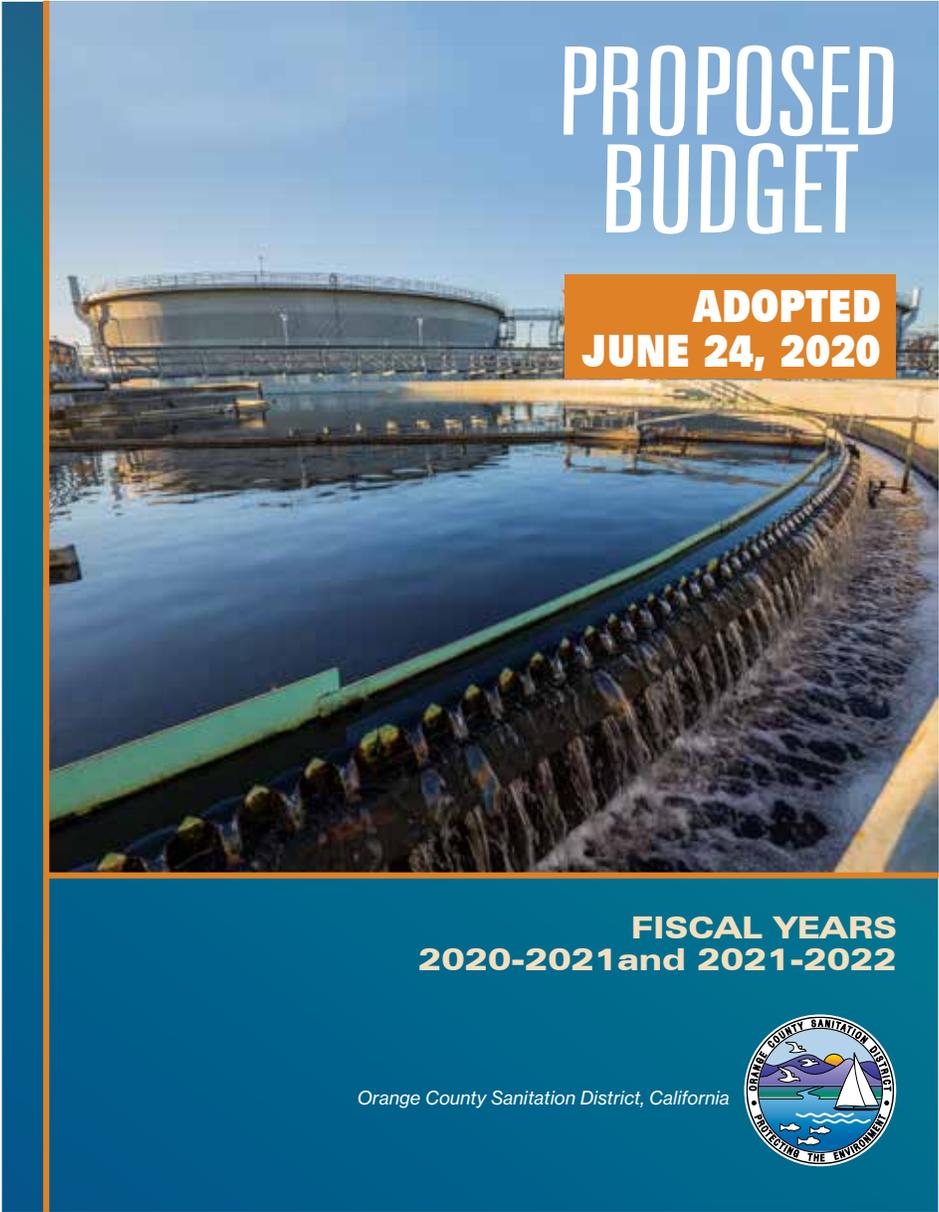
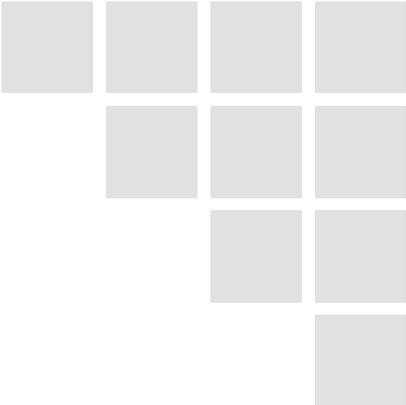
Annual Report

REPORTS



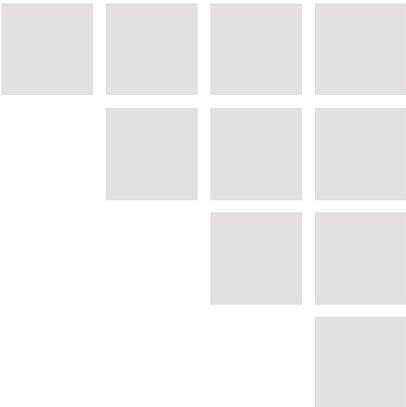
Biosolids Report Cover Design

REPORTS



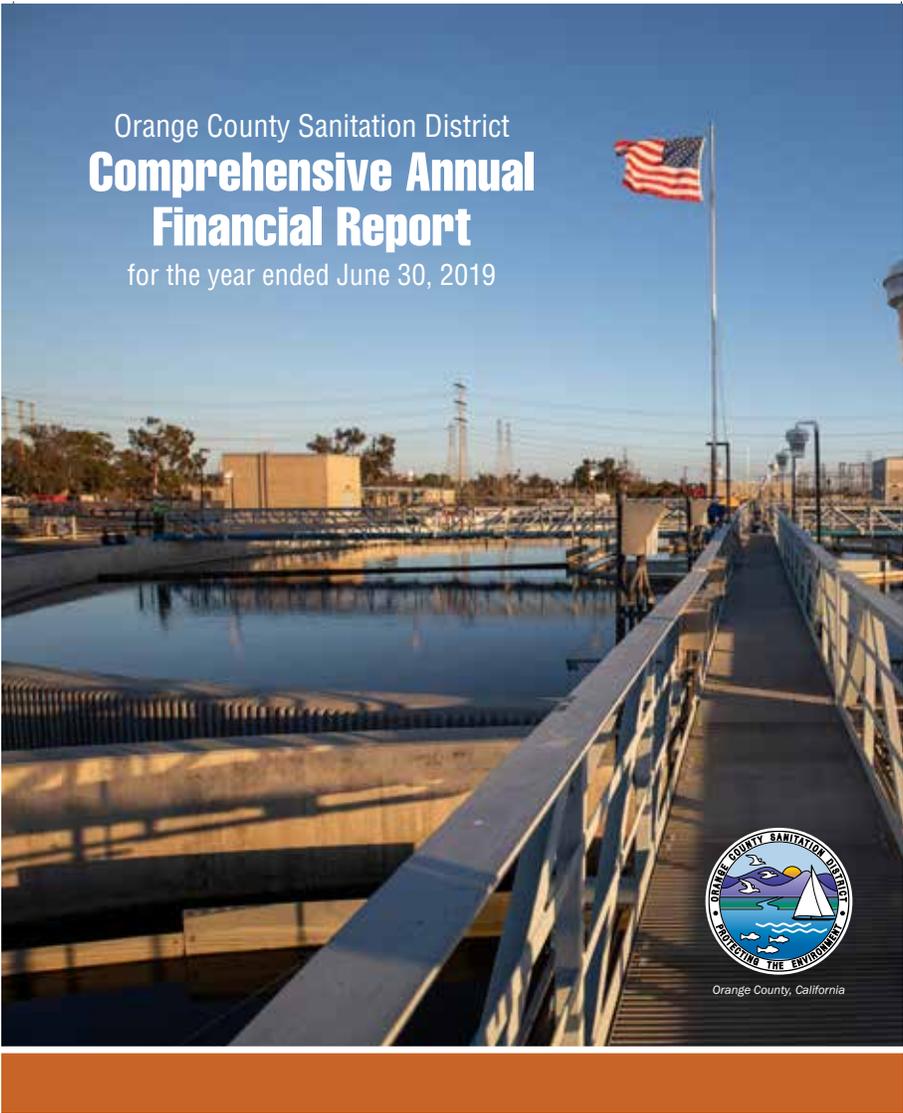
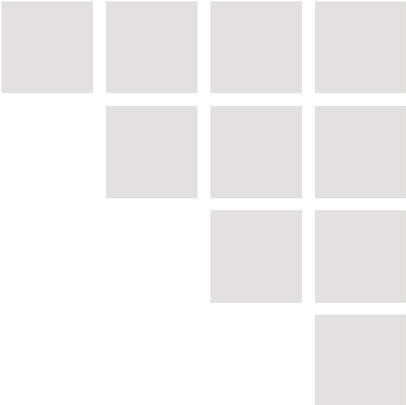
Budget Book

REPORTS



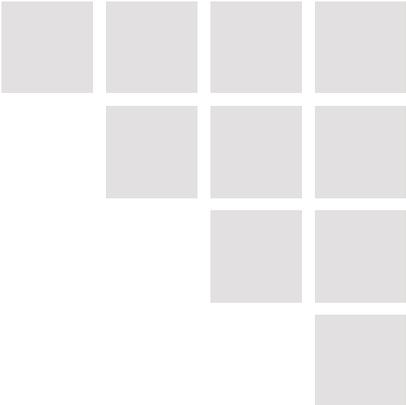
CIP Annual Report

REPORTS



Financial Report Cover Design

REPORTS



Orange County Sanitation District

First Quarter Financial Report

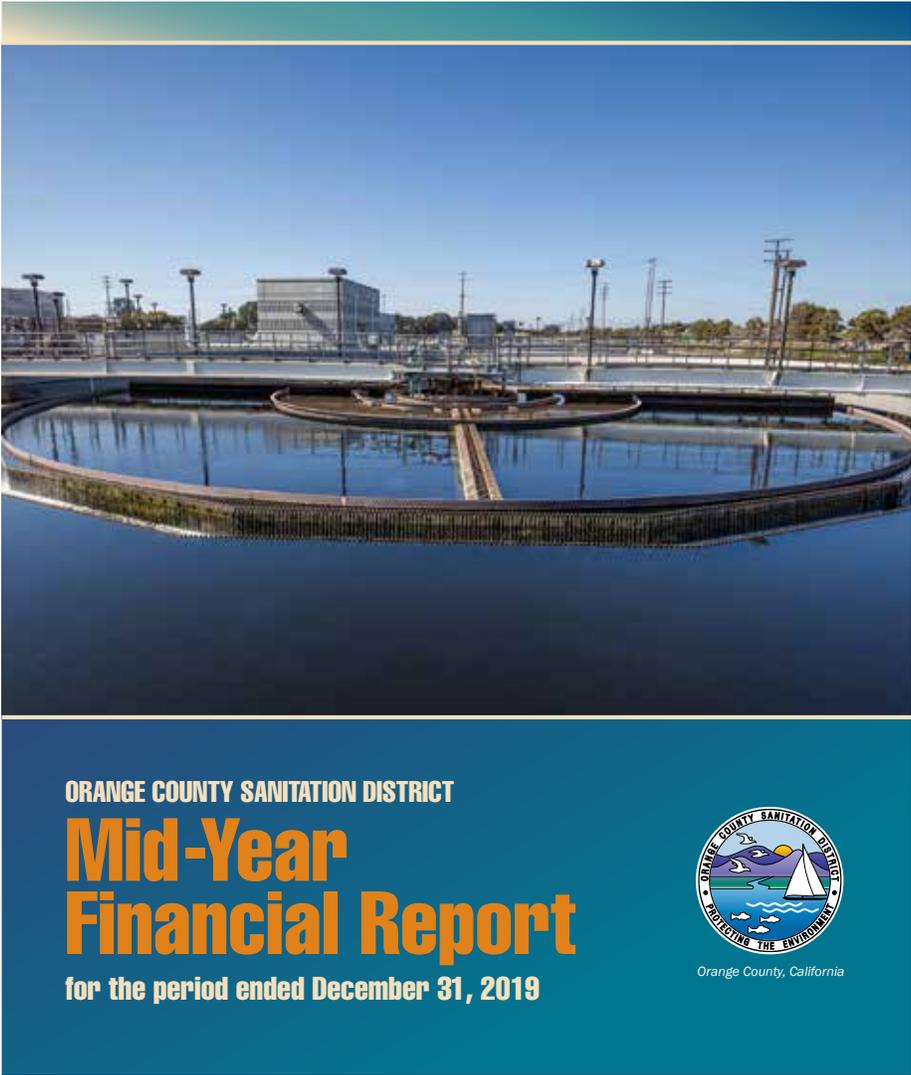
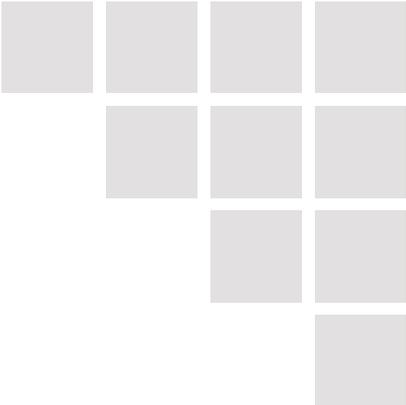
for the period ended September 30, 2019



Orange County, California

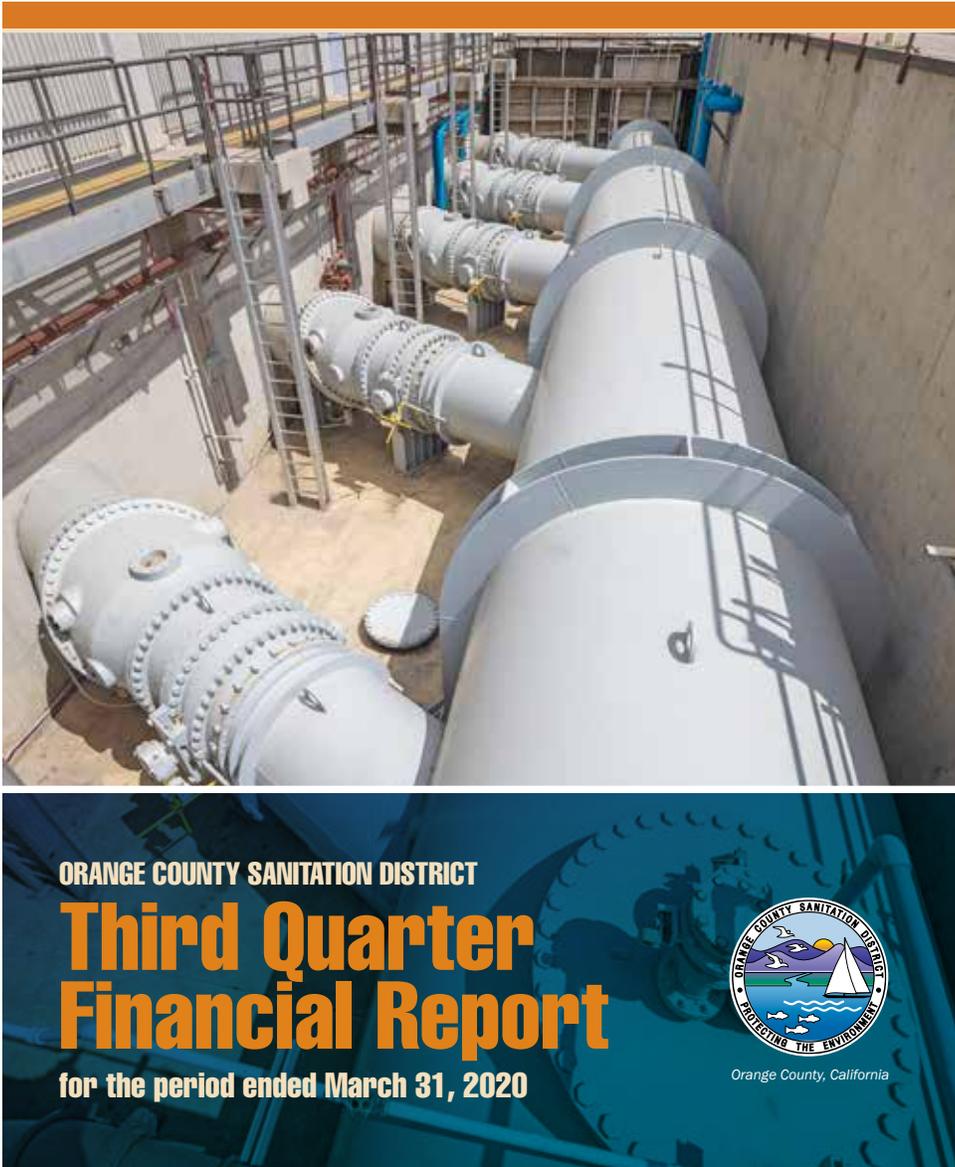
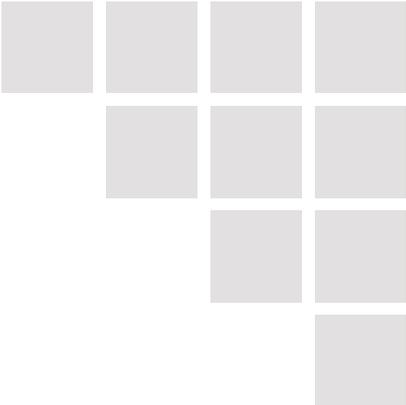
Financial Report Cover Design

REPORTS



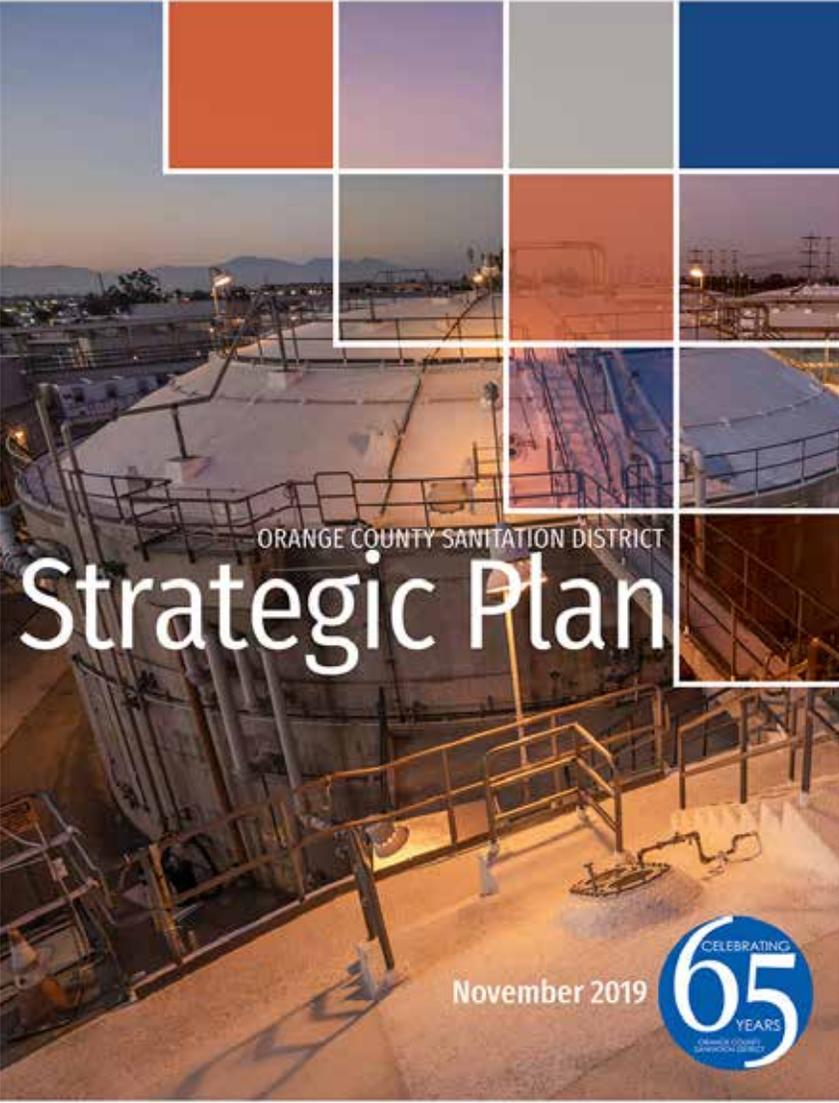
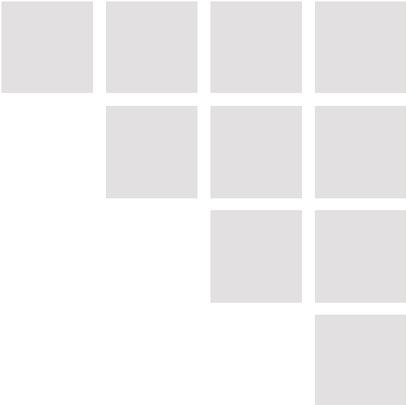
Financial Report Cover Design

REPORTS



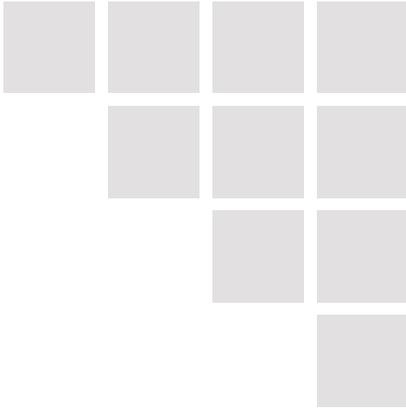
Financial Report Cover Design

REPORTS



Strategic Plan Cover Design

REPORTS



Executive Management Team

ANNUAL RETREAT

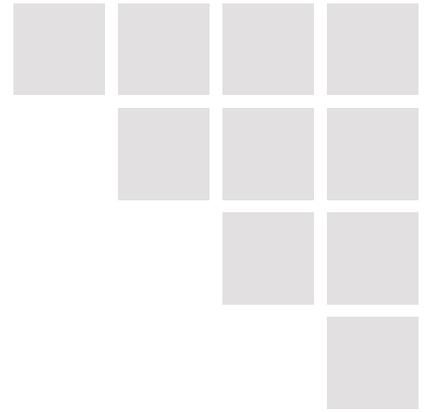
Thursday, August 1, 2019
7:30 a.m. - 3 p.m.

SCCWRP
3535 Harbor Boulevard
Suite 110
Costa Mesa, CA 92626



Management Retreat Cover Design

REPORTS



2018-19
Annual Report
RESOURCE PROTECTION DIVISION

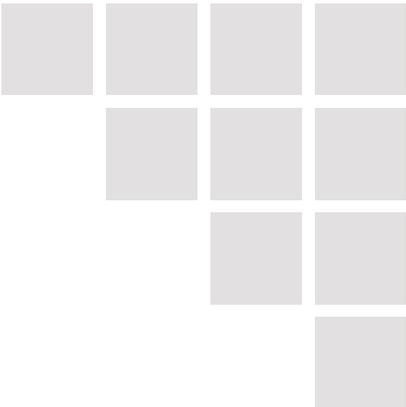
PRETREATMENT PROGRAM



Orange County
Sanitation District

Resource Protection Report Cover Design

REPORTS



INVESTMENT POLICY

Calendar Year 2020
Adopted December 18, 2019

Orange County Sanitation District



Investment Policy Cover Design



Public Affairs Division
10844 Ellis Avenue | Fountain Valley, CA 92708