

I hereby certify that the following Agenda was posted at least 72 hours prior to the time of the Board Meeting so noticed below, at the usual agenda posting location of the South Orange County Wastewater Authority [SOCWA] and at www.socwa.com.



Betty Burnett, General Manager
SOCWA and the Board of Directors thereof

*Regular Meeting of The
South Orange County Wastewater Authority
Board of Directors*

October 6, 2022
8:30 a.m.

PHYSICAL MEETING LOCATION:

Dana Hills Tennis Center
24911 Calle De Tennis
Dana Point, CA 92629

IN ACCORDANCE WITH AB361, MEMBERS OF THE PUBLIC ARE INVITED TO PARTICIPATE AND MAY JOIN THE MEETING VIA ONLINE FOR VISUAL INFORMATION ONLY (USE ZOOM LINK BELOW) AND BY TELECONFERENCE PHONE NUMBER FOR AUDIO PARTICIPATION (USE PHONE NUMBERS BELOW). THIS IS A PHONE CALL MEETING AND NOT A WEB-CAST MEETING SO PLEASE REFER TO AGENDA MATERIALS AS POSTED ON THE WEBSITE AT WWW.SOCWA.COM. ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION.

PUBLIC COMMENTS WILL BE TAKEN DURING THE MEETING FOR ORAL COMMENTS. COMMENTS MAY ALSO BE SUBMITTED PRIOR TO THE MEETING VIA EMAIL TO ASSISTANT SECRETARY DANITA HIRSH AT DHIRSH@SOCWA.COM.

IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST DISABILITY RELATED ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE BY PHONE REQUEST MADE TO THE AUTHORITY ADMINISTRATIVE OFFICE AT 949-234-5452. THE AUTHORITY ADMINISTRATIVE OFFICES ARE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"), BUT ARE NOT OPEN TO THE PUBLIC DURING THE PERIOD OF STAY AT HOME ORDERS. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE SENT TO PARTICIPANTS REQUESTING VIA EMAIL DELIVERY. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IMMEDIATELY ON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES.

THE PUBLIC MAY PARTICIPATE REMOTELY BY VIRTUAL MEANS. FOR AUDIO OF MEETING USE THE CALL IN PHONE NUMBERS BELOW AND FOR VIDEO USE THE ZOOM LINK BELOW.

Join Zoom Meeting
<https://socwa.zoom.us/>

Meeting ID: 818 4679 4608
Passcode: 144287

Dial by your location:

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South Orange County Wastewater Authority
Board of Directors Meeting
October 6, 2022

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1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ORAL COMMUNICATIONS

Members of the public may address the board regarding an item on the agenda or may reserve this opportunity during the meeting at the time the item is discussed by the board. There will be a three-minute limit for public comments.

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4. AB361 – ALLOWING FOR VIRTUAL MEETINGS – Findings and Approval to continue Virtual meetings 1

ACTION The staff recommends that the Board of Directors approve the following findings and actions:

- A. The Board hereby FINDS AND DECLARES that it has considered the circumstances of the proclaimed state of emergency declared by the Governor on March 4, 2020 relating to the Covid-19 pandemic;
- B. Based on the information provided in this staff report and pursuant to the information and discussion presented in the October 6, 2022 Board meeting, the Board hereby FINDS AND DECLARES that as a result of the Covid-19 pandemic, meeting in person presents imminent risks to the health or safety of attendees, and that state and/or local officials continue to impose or recommend measures to promote social distancing;
- C. The Board hereby makes these findings and approves for the upcoming 30-day period, **October 6, 2022 to November 5, 2022**, regular and special meetings of the SOCWA Board and its Standing Committees and Project Committees may continue to be virtual meetings held in accordance with AB 361's Public Notice and Public Participation requirements.
- D. The Board of Directors hereby delegates authority to the Standing Committees of SOCWA to make the necessary findings to continue holding virtual meetings in accordance with AB 361 if necessary.
- E. Staff is hereby directed to notice the upcoming board and committee meetings as virtual meetings if the proclaimed state of emergency remains, unless staff makes special arrangements to hold the Board or Committee Meetings at a location that will allow for social distancing in which case the meeting may be held in person, and to place AB 361 findings on the agenda for consideration at the next occurring meeting(s) so that, at that point in time, a determination can be made regarding whether as a result of the emergency, meeting in person would continue to present imminent risks to the health or safety of attendees.

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5. SANTA MARGARITA WATER DISTRICT (SMWD) – ALTERNATIVE WASTEWATER DELIVERY (Verbal Update) 15
- ACTION Information item
6. IRVINE RANCH WATER DISTRICT (IRWD) – NOTICE OF INTENT TO ASSIGN IT'S SOCWA RIGHTS TO EL TORO WATER DISTRICT (ETWD) 15
- ACTION Information item
7. CONSENT CALENDAR
- A. Minutes of Board of Directors 24
- Board of Directors Regular Meeting of September 1, 2022
- ACTION The Board will be requested to approve subject Minutes.
- B. Minutes of Finance Committee 32
- Finance Committee Meeting of August 16, 2022
- ACTION The Board will be requested to receive and file subject Minutes.
- C. Financial Reports for the Month of June 2022 (Preliminary – Close of Fiscal Year), and July 2022 36
- The reports included are as follows:
- June 2022 Preliminary Financial Reports:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)
 - FY 2021-22 Fringe Pool and Fringe Rate (Exhibit E-5)
 - July 2022 Financial Reports:
 - a. Summary of Disbursements for July 2022 (Exhibit A-1);
 - b. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
 - c. Schedule of Cash and Investments (Exhibit C)
 - d. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
 - e. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

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- ACTION The Finance Committee recommends that the Board of Directors (i) receive and file the June 2022 (Preliminary) Financial Reports, (ii) ratify the July 2022 disbursements for the period from July 1, through July 31, 2022, totaling \$4,925,747.
- D. Preliminary Draft Use Audit, O&M only, FY 2021-22 Budget vs. Actual including UAL and OPEB Expense Distribution by Member Agencies 66
- ACTION Information item
- E. Operations Report (*August 2022*) 81
1. Monthly Operational Report
 2. SOCWA Ocean Outfall Discharges by Agency
 3. Beach Ocean Monitoring Report
 4. Recycled Water Report
 5. Pretreatment Report (*August and September*)
- ACTION The Board will be requested to receive and file subject reports as submitted.
- F. Rockwell TechConnect Support Agreement Annual Renewal (via OneSource Distributors, Inc.) for \$56,891.52 [Project Committee Nos. 2, 15, and 17] 124
- ACTION Staff recommends that the Board of Directors authorize the General Manager to execute the Rockwell TechConnect Support Agreement with OneSource Distributors Inc. to renew SOCWA's Annual SCADA system licenses in the amount of \$56,891.52.
- G. Capital Improvement Program Status Report (*September 2022*) 126
- ACTION Information item, receive and file.
- H. Capital Improvement Construction Projects Progress and Change Order Report (*September*) [Project Committees 2, 15, and 17] 130
- ACTION
1. The Engineering Committee recommends that the PC 17 Board of Directors approve JR Filanc Change Order 4 for \$0, including 234 additional days for a total of \$0 with 234 additional days, and a revised contract value of \$1,812,531.02 for the RTP Aeration Diffuser Project; and
 2. Staff recommends the Board of Directors receive and file the Report as an information item.

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8. ENGINEERING MATTERS

- A. JB Latham Treatment Plant Package B Liquids Contingency Increase
[Project Committee 2] 143

ACTION The Engineering Committee recommends that the PC 2 Board of Directors approve the addition of \$250,000 of contingency to the JB Latham Package B Liquids Improvements (3220-000).

9. GENERAL MANAGER'S REPORTS

- A. Small Capital Automatic Self-Cleaning Strainer Model A for \$52,779.00 (plus tax, shipping, and fees) [Project Committee 15] 145

ACTION Staff recommends that the Board of Directors authorize the General Manager to purchase a Model A Kinney Automatic Self-Cleaning Strainer at CTP at the cost of \$52,779.00, plus shipping costs, fees, and additional tax that are determined at the time the units are shipped.

- B. Temporary Staffing Services 147

ACTION Staff recommends that the Board of Directors authorize the General Manager to continue to use AppleOne Employment Services and execute the agreement not to exceed \$30,000 for 2022/2023.

- C. New 5-Year Lease to Replace Two Xerox C60 MFP's with Two New Xerox 9070 MFP's [Project Committee 2] 148

ACTION Staff recommends that the Board of Directors approve the proposed 5-year contract with MRC/Xerox for two new Xerox 9070 MFPs.

- D. Stanford Wastewater Based Epidemiology SCAN Program Engagement (Special Guest, Alexandria Boehm of Stanford University to attend meeting virtually) 150

ACTION Staff is seeking recommendation from Member Agencies for expanding the previous CTP sampling, to the RTP, and the JBL facility. Staff is also seeking interested Member Agencies to partner on this effort for a regional sampling strategy for trends in coronavirus, influenza, and emerging communicable diseases in step with guidance from the CDC.

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- E. Asset Management Plans for San Juan Creek Ocean Outfall (SJCOO) and Aliso Creek Ocean Outfall (ACOO) Permit Compliance 156
- Permit Compliance Update
- ACTION Information item.
- F. New Electric Truck Purchase 2022 [Project Committee Nos. 2, 15, and 17] 246
- ACTION Staff recommends that the Board of Directors authorize the General Manager to purchase an electric pickup truck for an amount not to exceed \$75,000.
- G. Update MNWD Request to Operate the AWT at the Regional Treatment Plant (RTP) [Project Committee 17] (*items to be delivered Under Separate Cover*).....
- ACTION Information item; Direct Staff.
- H. Cost of Service Restructure Opportunities for SOCWA 248
- ACTION Board consideration and comments. Direction to Staff to investigate services needed to pursue development of cost of service restructure opportunities.
- I. South Coast Water District (SCWD) Desalination – Project Support Request..... 250
- ACTION Board consideration and comments. Direction to Staff to prepare correspondence and participate in support of the South Coast Water District desalination project.
- J. General Counsel's Updates (verbal reports).....
- ACTION Information Items, Board Discussion and Direction
- K. General Manager's Status Report 252
- ACTION Information Items, Board Discussion and Direction
- L. Resolution No. 2022-04: A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY HONORING TONI ISEMAN FOR 24 YEARS OF SERVICE TO THE CITY OF LAGUNA BEACH..... 258
- ACTION Staff recommends that the Board of Directors adopt Resolution No. 2022-04: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Honoring Toni Iseman for 24 Years of Service to the City of Laguna Beach.

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M. Upcoming Meetings Schedule:

- October 2022 – PC-15 Committee Meeting – Actual Date to Be Determined to discuss CTP Capital Funding Options
- October 6, 2022 – Board of Directors Meeting
- October 13, 2022 – Engineering Committee Regular Meeting
- October 2022 PC-2 Committee Meeting (*Tentative*)
- October 18, 2022 – Finance Committee Special Meeting

ACTION Information Item

10. CLOSED SESSION

A. A Closed Session Conference with legal counsel pursuant to Government Code Section § 54957.

- Public employee performance evaluation – Title: General Manager

B. Report out of Closed Session.

11. OTHER MATTERS

Determine the need to take action on the following item(s) introduced by the General Manager which arose subsequent to the agenda being posted. [Adoption of this action requires a two-thirds vote of the Board, or if less than two-thirds are present a unanimous vote.]

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
NOVEMBER 3, 2022

Agenda Item

4

Board of Directors Meeting

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

SUBJECT: AB 361 – Allowing for Virtual Meetings - Findings and Approval to continue virtual meetings

BACKGROUND

On March 4, 2020, the Governor declared a state of emergency arising from the Covid-19 pandemic. Pursuant to Government Code 54953(e)(1), if a state of emergency exists, and state or local officials have imposed or recommended measures to promote social distancing, or if a majority of the Board determines that meeting in person would present imminent risks to the health and safety of attendees, then the Board can utilize telephonic or virtual meetings without compliance with the telephonic agenda provisions of the Brown Act found in Government Code 54953(b)(3). Consistent with findings made and the action taken at the September 1, 2022 Board Meeting, the SOCWA Board held its August Board, committee, and PC meetings virtually under AB 361. The Board's 30-day findings expired on October 1, 2022.

California continues to be in a proclaimed state of emergency. The Omicron variant is highly transmissible and has been identified in Orange County. The current County of Orange Health Officer's Orders and Strong Recommendations revised August 19, 2022 (attached to this staff report) contain "strong recommendations" promoting social distancing for vulnerable populations, which include individuals over 65 years old and those with underlying health conditions. In light of the ongoing state of emergency and these local recommendations, the SOCWA Board of Directors may conduct today's meeting virtually pursuant to Government Code 54953(e)(1)(A). In order to continue holding virtual board, special, committee, and PC meetings over the next 30 days, the SOCWA Board of Directors must make the required findings set forth below, and must continue making these findings every 30 days thereafter. The Board of Directors may also delegate this authority to the Standing Committees of SOCWA to allow them to make the necessary findings at a duly noticed public meeting.

DISCUSSION

AB 361 amends the Brown Act and allows for public organizations to use virtual meetings through January 1, 2024 if any of the following circumstances are met:

- (A) The legislative body holds a meeting during a proclaimed state of emergency, and state or local officials have imposed or recommended measures to promote social distancing.
- (B) The legislative body holds a meeting during a proclaimed state of emergency for the purpose of determining, by majority vote, whether as a result of the emergency, meeting in person would present imminent risks to the health or safety of attendees.

- (C) The legislative body holds a meeting during a proclaimed state of emergency and has determined, by majority vote, that, as a result of the emergency, meeting in person would present imminent risks to the health or safety of attendees.

In accordance with AB No. 361, when a board wants to continue holding virtual meetings because a state of emergency continues, the board must make findings every 30 days that 1) the Board has reconsidered the circumstances of the state of emergency and 2) the state of emergency continues to directly impact the ability of the members to meet safely in person or state or local officials continue to impose or recommend measures to promote social distancing.

The County of Orange Health Officer's Orders and Strong Recommendations, revised September 23, 2022 (attached), contain a "strong recommendation" that vulnerable populations, including older persons and individuals with underlying health conditions, take preventive measures for Covid-19 including social distancing and mask-wearing when around people from different households. The Covid-19 data and information regarding positive cases, deaths and hospitalizations are available at this website: <https://occovid19.ochealthinfo.com/coronavirus-in-oc>. Board Members are encouraged to review the local data in making determinations to support the recommended findings. As of September 22, 2022, the OC Health Care Agency reported 1,824 positive weekly cases, 24 weekly deaths, 124 current hospitalizations, and 21 current cases in ICU.

THEREFORE, IN LIGHT OF THE ABOVE, STAFF RECOMMENDS THE BOARD OF DIRECTORS APPROVE THE FOLLOWING FINDINGS AND ACTIONS:

- A. The Board hereby FINDS AND DECLARES that it has considered the circumstances of the proclaimed state of emergency declared by the Governor on March 4, 2020 relating to the Covid-19 pandemic;
- B. Based on the information provided in this staff report and pursuant to the information and discussion presented in the October 6, 2022 Board meeting, the Board hereby FINDS AND DECLARES that as a result of the Covid-19 pandemic, meeting in person presents imminent risks to the health or safety of attendees, and that state and/or local officials continue to impose or recommend measures to promote social distancing;
- C. The Board hereby makes these findings and approves for the upcoming 30-day period, **October 6, 2022 to November 5, 2022**, regular and special meetings of the SOCWA Board and its Standing Committees and Project Committees may continue to be virtual meetings held in accordance with AB 361's Public Notice and Public Participation requirements.
- D. The Board of Directors hereby delegates authority to the Standing Committees of SOCWA to make the necessary findings to continue holding virtual meetings in accordance with AB 361 if necessary.
- E. Staff is hereby directed to notice the upcoming board and committee meetings as virtual meetings if the proclaimed state of emergency remains, unless staff makes special arrangements to hold the Board or Committee Meetings at a location that will allow for social distancing in which case the meeting may be held in person, and to place AB 361 findings on the agenda for consideration at the next occurring meeting(s) so that, at that point in time, a determination can be made regarding whether as a result of the emergency, meeting in person would continue to present imminent risks to the health or safety of attendees.



REGINA CHINSIO-KWONG, DO
COUNTY HEALTH OFFICER/
CHIEF MEDICAL OFFICER

MATTHEW ZAHN, MD
DEPUTY COUNTY HEALTH OFFICER, PUBLIC HEALTH SERVICES/
MEDICAL DIRECTOR CDCD

405 W. 5TH STREET, 7TH FLOOR
SANTA ANA, CA 92701
www.ocalthinfo.com

**COUNTY OF ORANGE HEALTH OFFICER'S
ORDERS AND STRONG RECOMMENDATIONS
(Revised September 16, 2022)**

In light of recent updated COVID-19 State Public Health Officer Orders on vaccine requirements and testing recommendations, the following Orders and Strong Recommendations shall revise and replace the prior Orders and Strong Recommendations of the County Health Officer that were issued on August 19, 2022. The Orders and Strong Recommendations issued on August 19, 2022, are no longer in effect as of September 16, 2022.

Pursuant to California Health and Safety Code sections 101030, 101040, 101470, 120175, and 120130, the County Health Officer for County of Orange orders and strongly recommends the following:

ORDERS

Effective immediately, and continuing until further notice, the following shall be in effect in unincorporated and incorporated territories of Orange County, California:

I. Self-Isolation of Persons with COVID-19 Order

NOTE: This Self-Isolation Order DOES NOT in any way restrict access by first responders to an isolation site during an emergency.

1. Persons who are symptom-free but test positive for COVID-19.

If you do not have any COVID-19 symptoms (as defined below in this Order) but test positive for COVID-19, you shall immediately isolate yourself in your home

or another suitable place for at least 5 days from the date you test positive and may end your self-isolation after day 5:

- If you continue not having any COVID-19 symptoms and a diagnostic specimen collected on day 5 or later tests negative.
 - While an antigen test, nucleic acid amplification test (NAAT), or LAMP test are acceptable, use of an antigen test is recommended. Use of Over-the-Counter tests are also acceptable to end isolation.

Exceptions.

- If you are unable or choose not to test on day 5 or after, or if you test positive after day 5, you shall continue your self-isolation through day 10 from the date of your initial positive test and may end your self-isolation after 10 days from the date of your initial positive test.
- If you develop COVID-19 symptoms during the time of your self-isolation, you shall isolate yourself for at least 10 days from the date of symptom(s) onset. You may end your self-isolation sooner if a diagnostic specimen collected on day 5 (or later) from the date of symptom(s) onset tests negative.

All persons who test positive for COVID-19 should continue to wear a well-fitting mask at all times around other people through day 10.

2. Persons who have COVID-19 symptoms.

If you have COVID-19 symptoms, you shall immediately isolate yourself in your home or another suitable place for 10 days from the date of your symptom(s) onset and may end your self-isolation sooner under any of the following conditions:

- If a diagnostic specimen collected as early as the date of your symptom(s) onset tests negative.
 - While an antigen test, nucleic acid amplification test (NAAT), or LAMP test are acceptable, use of an antigen test is recommended. Use of Over-the-Counter tests are also acceptable to end isolation.
 - Note: A negative PCR or antigen test collected on day 1-2 of symptom onset should be repeated in 1-2 days to confirm negative status. While isolation may end after the first negative test, it is

strongly recommended to end isolation upon negative results from the repeat test.

- If you obtain an alternative diagnosis from a healthcare provider.

Exception:

If you have COVID-19 symptoms and test positive for COVID-19, you shall isolate yourself for at least 10 days from the date of symptom(s) onset. You may end your self-isolation sooner if a diagnostic specimen collected on day 5 (or later) from the date of symptom(s) onset tests negative.

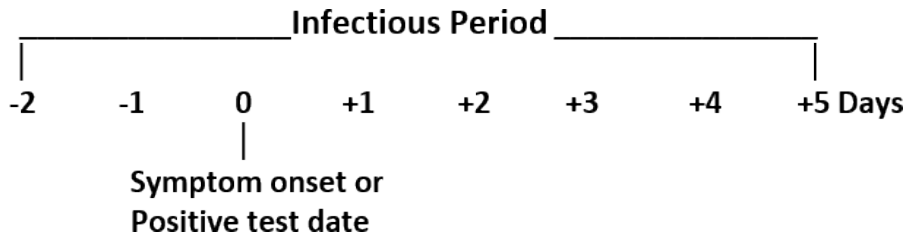
You are not required to self-isolate for more than 10 days from the date of your COVID-19 symptom(s) onset regardless of whether your symptoms are present on Day 11.

All persons who have COVID-19 symptoms should continue to wear a well-fitting mask at all times around other people through at least Day 10.

3. Additional Considerations for Self-Isolation.

- A person who is self-isolated may not leave his or her place of isolation except to receive necessary medical care.
- If a more specific and individualized isolation order is issued by the County Health Officer for any county resident, the resident shall follow the specific order instead of the order herein.
- People who are severely ill with COVID-19 might need to stay in self-isolation longer than 5 days and up to 20 days after symptoms first appeared. People with weakened immune systems should talk to their healthcare provider for more information.
- Rebound: Regardless of whether an individual has been treated with an antiviral agent, risk of transmission during COVID-rebound can be managed by following CDC's guidance on isolation (<https://www.cdc.gov/coronavirus/2019-ncov/your-health/quarantine-isolation.html>). An individual with rebound may end re-isolation after 5 full days of isolation with resolution of their fever for 24 hours without the use of fever-reducing medication and if symptoms are improving. The individual should wear a mask for a total of 10 days after rebound symptoms started.
 - More information can be found at <https://www.cdph.ca.gov/Programs/OPA/Pages/CAHAN/CAHAN-Paxlovid-Recurrence-06-07-22.aspx>.

Timing for "Day 0" - As noted in CDPH Isolation and Quarantine Q&A, the 5-day clock for isolation period starts on the date of symptom onset or (day 0) for people who test positive after symptoms develop, or initial test positive date (day 0) for those who remain asymptomatic. If an asymptomatic person develops symptoms, and test positive, date of symptom onset is day 0.



NOTE: In workplaces, employers and employees are subject to the Isolation and quarantine requirements as stated in the CalOSHA COVID-19 Emergency Temporary Standards (ETS) as modified by the Governor's Executive Order N-5-22 or in some workplaces the Cal/OSHA Aerosol transmissible Diseases (ATD) Standard.

Information about CalOSHA COVID-19 Emergency Temporary Standards (ETS) can be found at <https://www.dir.ca.gov/dosh/coronavirus>.

Definition.

Whenever the term "symptom" or "*COVID-19 symptom*" is used, it shall mean COVID-19 symptom. People with COVID-19 have had a wide range of symptoms reported – ranging from mild symptoms to severe illness. Symptoms may appear 2-14 days after exposure to the virus. Anyone can have mild to severe symptoms. People with these symptoms may have COVID-19:

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache
- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea
- The list above does not include all possible symptoms.

II. Face-Coverings/Masks:

To help prevent the spread of droplets containing COVID-19, all County residents and visitors are required to wear face coverings in accordance with the Guidance for the Use of

Face Coverings issued by CDPH, dated April 20, 2022. The Guidance is attached herein as Attachment "A" and can be found at:

A: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/guidance-for-face-coverings.aspx>.

Masks are required for all individuals in the following indoor settings, regardless of vaccination status:

- Homeless shelters, Emergency shelters and cooling and heating centers.
- Healthcare settings (applies to all healthcare settings, including those that are not covered by State Health Officer Order issued on July 26, 2021).
- Local correctional facilities and detention centers.
- Long Term Care Settings & Adult and Senior Care Facilities.

NOTE:

1) When using public transit, individuals shall follow the guidance and requirements set by the Federal government. More information about the guidance on public transportation can be found at <https://www.cdc.gov/quarantine/masks/face-masks-public-transportation.html>.

2) In workplaces, employers are subject to the Cal/OSHA COVID-19 Prevention Emergency Temporary Standards (ETS) or in some workplaces the Cal/OSHA Aerosol Transmissible Diseases (ATD) Standard (PDF) and should consult those regulations for additional applicable requirements, as modified by the Governor's Executive Order N-5-22. Additional information about how CDPH isolation and quarantine guidance affects ETS-covered workplaces may be found in Cal/OSHA FAQs.

No person shall be prevented from wearing a mask as a condition of participation in an activity or entry into a business.

Exemptions to masks requirements.

The following individuals are exempt from this mask order:

- Persons younger than two years old.
- Persons with a medical condition, mental health condition, or disability that prevents wearing a mask. This includes persons with a medical condition for whom wearing a mask could obstruct breathing or who are unconscious, incapacitated, or otherwise unable to remove a mask without assistance.

- Persons who are hearing impaired, or communicating with a person who is hearing impaired, where the ability to see the mouth is essential for communication.
- Persons for whom wearing a mask would create a risk to the person related to their work, as determined by local, state, or federal regulators or workplace safety guidelines.
- Additional exceptions to masking requirements in high-risk settings can be found at <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Face-Coverings-QA.aspx>.

III. COVID-19 Vaccine Requirement Order

- **Health Care Workers COVID-19 Vaccine Requirement Order:**

To help prevent transmission of COVID-19, all workers who provide services or work in facilities described below shall comply with the COVID-19 vaccination and booster dose requirements as set forth in the September 13, 2022, State Health Officer Order. A copy of the State Health Officer Order is attached herein as Attachment "B" and can be found at the following link:

B: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Health-Care-Worker-Vaccine-Requirement.aspx>

Facilities covered by this order include:

- General Acute Care Hospitals
- Skilled Nursing Facilities (including Subacute Facilities)
- Intermediate Care Facilities
- Acute Psychiatric Hospitals
- Adult Day Health Care Centers
- Program of All-Inclusive Care for the Elderly (PACE) and PACE Centers
- Ambulatory Surgery Centers
- Chemical Dependency Recovery Hospitals
- Clinics & Doctor Offices (including behavioral health, surgical)
- Congregate Living Health Facilities
- Dialysis Centers
- Hospice Facilities
- Pediatric Day Health and Respite Care Facilities
- Residential Substance Use Treatment and Mental Health Treatment Facilities

The word, "worker," as used in this Order shall have the same meaning as defined in the State Health Officer's Order, dated September 13, 2022.

- **Local Correctional Facilities and Detention Centers Health Care Worker Vaccination Requirement.**

To prevent the further spread of COVID-19 in local correctional facilities and detention centers, all individuals identified in the State Health Officer Order, effective September 13, 2022, shall comply with the State Health Officer's Order with regards to obtaining COVID-19 vaccination and booster doses. A copy of the State Health Officer Order is attached herein as Attachment "C" and can be found at the following link:

C: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Health-Care-Worker-Vaccine-Requirement.aspx>

- **Adult Care Facilities and Direct Care Worker Vaccination Requirements.**

To help prevent transmission of COVID-19, all individuals specified below shall comply with the COVID-19 vaccination and booster dose requirements as set forth in the September 13, 2022, State Health Officer Order. A copy of the State Health Officer Order is attached herein as Attachment "D" and can be found at the following link:

D: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Adult-Care-Facilities-and-Direct-Care-Worker-Vaccine-Requirement.aspx>

Individuals covered by this order include:

- All workers who provide services or work in Adult and Senior Care Facilities licensed by the California Department of Social Services;
- All in-home direct care services workers, including registered home care aides and certified home health aides, except for those workers who only provide services to a recipient with whom they live or who are a family member of the recipient for whom they provide services;
- All waiver personal care services (WPCS) providers, as defined by the California Department of Health Care Services, and in-home supportive services (IHSS) providers, as defined by the California Department of Social Services, except for those workers who only provide services to a recipient with whom they live or who are a family member of the recipient for whom they provide services;
- All hospice workers who are providing services in the home or in a licensed facility; and
- All regional center employees, as well as service provider workers, who provide services to a consumer through the network of Regional Centers serving

individuals with developmental and intellectual disabilities, except for those workers who only provide services to a recipient with whom they live or who are a family member of the recipient for whom they provide services.

IV. Seasonal Flu Vaccination Order:

Seasonal Flu Vaccination for Certain County Residents.

All individuals who reside or work in Orange County and fall under one of the following categories, shall obtain the seasonal flu vaccination unless a medical or religious exemption applies: (i) current providers for congregate settings; (ii) current health care providers; and (iii) current emergency responders. However, nothing herein shall be construed as an obligation, on the part of employers, public or private, to require employees obtain the seasonal flu vaccination as a term or condition of employment.

- *Emergency responder* shall mean military or national guard; law enforcement officers; correctional institution personnel; fire fighters; emergency medical services personnel; physicians; nurses; public health personnel; emergency medical technicians; paramedics; emergency management personnel; 911 operators; child welfare workers and service providers; public works personnel; and persons with skills or training in operating specialized equipment or other skills needed to provide aid in a declared emergency; as well as individuals who work for such facilities employing these individuals and whose work is necessary to maintain the operation of the facility.
- *Health care provider* shall mean physicians; psychiatrists; nurses; nurse practitioners; nurse assistants; medical technicians; any other person who is employed to provide diagnostic services, preventive services, treatment services or other services that are integrated with and necessary to the provision of patient care and, if not provided, would adversely impact patient care; and employees who directly assist or are supervised by a direct provider of diagnostic, preventive, treatment, or other patient care services; and employees who do not provide direct health care services to a patient but are otherwise integrated into and necessary to the provision those services – for example, a laboratory technician who processes medical test results to aid in the diagnosis and treatment of a health condition. A person is not a health care provider merely because his or her employer provides health care services or because he or she provides a service that affects the provision of health care services. For example, IT professionals, building maintenance staff, human resources personnel, cooks, food services workers, records managers, consultants, and billers are not health care providers, even if they work at a hospital of a similar health care facility.

STRONG RECOMMENDATIONS

Effective immediately, and continuing until further notice, the following shall be in effect in unincorporated and incorporated territories in Orange County, California:

1. Self-quarantine of Persons Exposed to COVID-19

- If you are known to be exposed to COVID-19 (regardless of vaccination status, prior disease, or occupation), it is strongly recommended to follow CDPH Quarantine guidance found at <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Guidance-on-Isolation-and-Quarantine-for-COVID-19-Contact-Tracing.aspx>.
- **K-12 Schools and Child Care**
 - Schools/school districts are advised to follow CDPH COVID-19 Public Health Guidance for K-12 Schools in California, 2022-2023 School Year found at: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/K-12-Guidance-2022-23-School-Year.aspx>
 - Child care providers and programs are advised to follow CDPH Guidance for Child Care Providers and Programs found at: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Child-Care-Guidance.aspx>.
- **Workplaces**
 - In workplaces, employers and employees are subject to the Quarantine requirement as stated in the Cal/OSHA COVID-19 Emergency Temporary Standards (ETS) as modified by the Governor's Executive Order N-5-22 or in some workplaces the Cal/OSHA Aerosol Transmissible Diseases (ATD) Standard.

Exposed to COVID-19 or exposure to COVID-19 means sharing the same indoor space (e.g. home, clinic waiting room, airplane, etc.) for a cumulative total of 15 minutes or more over a 24-hour period (for example, three individual 5- minute exposures for a total of 15 minutes) during an infected person's (laboratory-confirmed or a clinical diagnosis) infectious period.

2. **For Vulnerable Populations.** In general, the older a person is, the more health conditions a person has, and the more severe the conditions, the more important it is to take preventive measures for COVID-19 such as getting vaccinated, including boosters, social distancing and wearing a mask when around people who don't live in the same household, and practicing hand hygiene. For more information see <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html>.

3. **COVID-19 Vaccination for County Residents.** All Orange County residents should receive COVID-19 vaccination in accordance with the Federal Food and Drug Administration (FDA) and CDC guidance. Minors, who are eligible to receive COVID-19 vaccination in accordance with the applicable CDC guidelines, should be vaccinated in the presence of their parent or legal guardian.

CDC Guidance can be found at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.html> and <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/specific-groups.html>

4. **Seasonal Flu Vaccination for County Residents.** All County residents who are six months of age or older should obtain the seasonal flu vaccination unless a medical or religious exemption applies.
5. **COVID-19 Vaccination and Testing for Emergency Medical Technicians, Paramedics and Home Healthcare Providers.** To help prevent transmission of COVID-19, it is strongly recommended that all Emergency Medical Technicians, Paramedics, and Home Healthcare Providers (including In Home Supportive Services Program workers) remain up-to-date as defined by CDC with COVID-19 vaccination. CDC Guidance can be found at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/specific-groups.html>

GENERAL PROVISIONS

1. The Orders and Strong Recommendations, above, shall not supersede any conflicting or more restrictive orders issued by the State of California or federal government. If any portion of this document or the application thereof to any person or circumstance is held to be invalid, the remainder of the document, including the application of such part or provision to other persons or circumstances, shall not be affected and shall continue in full force and effect. To this end, the provisions of the orders and strong recommendations are severable.
2. The Orders contained in this document may be enforced by the Orange County Sheriff or Chiefs of Police pursuant to California Health and Safety Code section 101029, and California Government Code sections 26602 and 41601. A violation of a health order is subject to fine, imprisonment, or both (California Health and Safety Code section 120295).

REASONS FOR THE ORDERS AND STRONG RECOMMENDATIONS

1. On February 26, 2020, the County of Orange Health Officer declared a Local Health Emergency based on an imminent and proximate threat to public health from the introduction of COVID-19 in Orange County.
2. On February 26, 2020, the Chairwoman of the Board of Supervisors, acting as the Chair of Emergency Management Council, proclaimed a Local Emergency in that the imminent and proximate threat to public health from the introduction of COVID-19 created

conditions of extreme peril to the safety of persons and property within the territorial limits of Orange County.

3. On March 2, 2020, the Orange County Board of Supervisors adopted Resolutions No. 20-011 and No. 20-012 ratifying the Local Health Emergency and Local Emergency, referenced above.
4. On March 4, 2020, the Governor of the State of California declared a State of Emergency to exist in California as a result of the threat of COVID-19.
5. As of September 16, 2022, the County has reported a total of 664,361 recorded confirmed COVID-19 cases and 7,405 of COVID-19 related deaths.
6. Safe and effective authorized COVID-19 vaccines and updated booster vaccines are recommended by the CDC for eligible individuals. According to CDC, anyone infected with COVID-19 can spread it, even if they do NOT have symptoms. The novel coronavirus is spread in 3 ways: 1) Breathing in air when close to an infected person who is exhaling small droplets and particles that contain the virus. 2) Having these small droplets and particles that contain virus land on the eyes, nose, or mouth, especially through splashes and sprays like a cough or sneeze. 3) Touching eyes, nose, or mouth with hands that have the virus on them.
See <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.html>
and <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html>.
7. The CDPH issued a revised Guidance for the Use of Face Coverings, effective April 20, 2022, available at: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/guidance-for-face-coverings.aspx>
8. According to the CDC and CDPH, older adults, individuals with medical conditions, and pregnant and recently pregnant persons are at higher risk of severe illness when they contract COVID-19. See <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/index.html>
9. The Orders and the Strong Recommendations contained in this document are based on the following facts, in addition to the facts stated under the foregoing paragraphs: (i) Safe and effective FDA authorized COVID-19 vaccines have been widely available, but certain populations have been hesitant to get vaccinated or boosted (ii) the current consensus among public health officials for slowing down the transmission of and avoiding contracting COVID-19 is for at-risk persons to complete a COVID-19 vaccination series and receive a booster if eligible, wear well-fitted mask in indoor settings when around others outside of their household, practice distancing, frequently wash hands with soap (iii) some individuals who contract COVID-19 have no symptoms or have only mild symptoms and so are unaware that they carry the virus and are transmitting it to others; (iv) current evidence shows that the novel coronavirus can survive on surfaces and can be indirectly transmitted between individuals; (v) older adults and individuals with medical conditions are at higher risk of severe illness; (vi) sustained COVID-19 community transmission continues to occur; (vii) the age, condition, and

health of a portion of Orange County's residents place them at risk for serious health complications, including hospitalization and death, from COVID-19; (viii) younger and otherwise healthy people are also at risk for serious negative health outcomes and for transmitting the novel coronavirus to others.

10. The orders and strong recommendations contained in this document are necessary and less restrictive preventive measures to control and reduce the spread of COVID-19 in Orange County, help preserve critical and limited healthcare capacity in Orange County and save the lives of Orange County residents.
11. The California Health and Safety Code section 120175 requires the County of Orange Health Officer knowing or having reason to believe that any case of a communicable disease exists or has recently existed within the County to take measures as may be necessary to prevent the spread of the disease or occurrence of additional cases.
12. The California Health and Safety Code sections 101030 and 101470 require the county health officer to enforce and observe in the unincorporated territory of the county and within the city boundaries located with a county all of the following: (a) Orders and ordinances of the board of supervisors, pertaining to the public health and sanitary matters; (b) Orders, including quarantine and other regulations, prescribed by the department; and (c) Statutes relating to public health.
13. The California Health and Safety Code section 101040 authorizes the County of Orange Health Officer to take any preventive measure that may be necessary to protect and preserve the public health from any public health hazard during any "state of war emergency," "state of emergency," or "local emergency," as defined by Section 8558 of the Government Code, within his or her jurisdiction. "Preventive measure" means abatement, correction, removal, or any other protective step that may be taken against any public health hazard that is caused by a disaster and affects the public health.
14. The California Health and Safety Code section 120130 (d) authorizes the County of Orange Health Officer to require strict or modified isolation, or quarantine, for any case of contagious, infectious, or communicable disease, when such action is necessary for the protection of the public health.

IT IS SO ORDERED:

Date: September 16, 2022



Regina Chinsio-Kwong, DO
County Health Officer
County of Orange



AGENDA ITEM 6

September 1, 2022

Via email

To: South Orange County Wastewater Authority
Attention: Ms. Betty Burnett, General Manager and
the members of the South Orange County Wastewater Authority ("SOCWA"):

City of Laguna Beach
City of San Clemente
El Toro Water District
Emerald Bay Services District

Moulton Niguel Water District
Santa Margarita Water District
South Coast Water District
Trabuco Canyon Water District

Re: **NOTICE OF IRWD'S INTENT TO ASSIGN ITS SOCWA RIGHTS TO EL TORO
WATER DISTRICT**

Betty and Members of SOCWA:

Attached is the draft Assignment and Assumption Agreement between the Irvine Ranch Water District ("IRWD") and El Toro Water District ("ETWD"). As described in the draft agreement, which remains subject to final approval by IRWD and ETWD and is expected to become effective July 1, 2023, IRWD will assign to ETWD all of IRWD's interests in SOCWA facilities, including specifically IRWD's interests in the Effluent Transmission Main and Aliso Creek Ocean Outfall, and all rights and obligations arising out of Project Committees 8, 12, 21 and 24.

Concurrently, IRWD plans to withdraw from SOCWA, and ETWD will assume all of IRWD's rights and duties in connection with SOCWA and its Project Committees. Any remaining charges or liabilities associated with IRWD's participation in SOCWA will be assumed by ETWD. IRWD will continue to comply with the *Interagency Agreement* with SOCWA related to pretreatment.

This draft Assignment and Assumption Agreement is scheduled for approval by the two Boards in late October 2022. The final approved Agreement and IRWD's Notice of Intent to Withdraw from SOCWA, effective on the last day of the 2022-2023 fiscal year, will be delivered at that time.

Please contact me directly with any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Paul A. Cook", is written over a horizontal line.

Paul A. Cook, P.E.
General Manager

Assignment and Assumption Agreement (El Toro-IRWD SOCWA Facilities)

This Assignment and Assumption Agreement ("**Agreement**") is between Irvine Ranch Water District ("**IRWD**") and El Toro Water District ("**El Toro**"), each of which are a "**Party**," and together are the "**Parties**." This Agreement is effective as of July 1, 2023 ("**Effective Date**").

A. Overview. The South Orange County Wastewater Authority ("**SOCWA**") is a Joint Powers Agency made up of several water purveyors and/or wastewater service providers within the San Juan Creek and/or Aliso Creek watershed. SOCWA owns and operates wastewater treatment facilities, transmission mains, and outfalls. SOCWA was created pursuant to the Joint Exercise of Powers Agreement Creating South Orange County Wastewater Authority ("**SOCWA**") dated July 1, 2001 (the "**Joint Powers Agreement**"). The current members of SOCWA are the City of Laguna Beach, the City of San Clemente, Capistrano Valley Water District, El Toro, Emerald Bay Services District, IRWD, Moulton Niguel Water District, Santa Margarita Water District, South Coast Water District, and Trabuco Canyon Water District (collectively, the "**Member Agencies**"). The City of San Juan Capistrano assigned all of its rights, title, interests, duties and obligations arising from its participation in SOCWA to Capistrano Valley Water District effective July 1, 2022.

B. Project Committees. If a SOCWA project or facility involves less than all of the SOCWA's Member Agencies, the affected Member Agencies form a "**Project Committee**" (or "**PC**") that is responsible for the construction, operation, and maintenance of that facility. IRWD is currently a member of PC 8 (Pretreatment Program), PC 21 (Effluent Transmission Main), and PC 24 (Aliso Creek Ocean Outfall), and is a former or non-participating member of PC 12 (Water Reclamation Permits). El Toro is also a member of these four PCs, among others.

C. Project Committee 21 (Effluent Transmission Main). IRWD, El Toro and Moulton Niguel (together, the "**PC 21 Member Agencies**") are the participating Member Agencies of Project Committee 21 ("**PC 21**") (originally established as Project Committee No. 2), which governs Reaches B, C, D, and E of the Effluent Transmission Main (the "**Effluent Transmission Main**"). The Parties (or their predecessors) are signatories to the *Agreement for Design, Construction, Use, Operation, Maintenance, Repair and Replacement of Aliso Creek Interceptor Sewer and Pumping Stations for Aliso Water Management Agency For and On Behalf of Project Committee No. 2*, dated January 22, 1975, as amended on October 7, 1999; October 2, 2003; and May 19, 2005; as well as the *Memorandum of Understanding Regarding Allocation of Costs, Grant Funds, and the Use of Facilities Funded by Project Committee No. 2* (together, the "**PC 2/21 Agreement**"). Pursuant to the terms of the PC 2/21 Agreement, the Participating Members (as defined in those agreements) collaborated with AWMA to design, construct, operate, and maintain the Effluent Transmission Main. The AWMA was a joint powers agency established for the purpose of constructing a regional program for wastewater collection, treatment, and disposal. It was consolidated with two other regional water joint powers authorities to form SOCWA in 2001.

D. PC 21 Facility Usage Allocations. SOCWA's Effluent Transmission Main is segmented into 4 reaches, known as Reaches B, C, D and E. Pursuant to the PC 2/21 Agreements, in Reaches B, C, and D, IRWD and El Toro each maintain 50% capacity allocation. In Reach E, IRWD and El Toro each maintain a 23.29% capacity allocation, and Moulton Niguel maintains 53.42% capacity allocation. In addition to the capacity allocation, the PC 2/21 Agreement's Amendment No. 3 provides the terms and conditions under which IRWD may discharge its Shallow Groundwater Unit Effluent (SGU Effluent) and Reverse Osmosis Brine Discharge (RO Brine Discharge) from the Irvine Desalter Project Potable Treatment Plant into the Effluent Transmission Main.

E. Project Committee 24 (Aliso Creek Ocean Outfall). IRWD, El Toro, Moulton Niguel, South Coast, Laguna Beach, and Emerald Bay (together, the "**PC 24 Member Agencies**") are the participating Member Agencies of Project Committee 24 ("**PC 24**") (originally established as Project Committee No. 11-A), which governs the Aliso Creek Ocean Outfall. The PC 24 Participating Members are signatories to the *Agreement for Acquisition of Capacity Construction, Use, Operation, and Maintenance of Outfall Facilities For Aliso Water Management Agency and For Such Agency On Behalf of Project Committee No. 11-A*, dated September 24, 1976, and subsequently amended five times between November 1976 and June, 1996 (the "**PC 24 Agreement**"). The PC 24 Agreement governed the financing, construction, operation, and maintenance of the Aliso Creek Ocean Outfall, as well as set capacity and use restrictions for each Participating Member Agency in PC 24.

F. PC 24 Facility Capacity Allocations. Pursuant to the PC 24 Agreement and the agreement of the PC 24 Member Agencies, the current capacity allocations of the 50.0 million gallons per day peak flow in the Aliso Creek Ocean Outfall are as follows:

IRWD	15.76%
El Toro	16.302%
Moulton Niguel	43.848%
South Coast	12.31%
Laguna Beach	11.00%
Emerald Bay	0.78%
Total	100.00%

G. Project Committee 8 (Pretreatment Program). SOCWA's Project Committee 8 ("**PC 8**") manages SOCWA's Pretreatment Program, including NPDES permits, for its facilities including the Effluent Transmission Main and Aliso Creek Ocean Outfall. IRWD, as successor to the Los Alisos Water District, and SOCWA, as the successor to the Aliso Water Management Agency ("**AWMA**"), are parties to the 1994 *Interagency Agreement Between the Aliso Water Management Agency (AWMA) and the Los Alisos Water District (LAWD) Facilitating the Pretreatment Program and Contracting With AWMA To Operate The Los Alisos Pretreatment Program* (the "**Interagency Agreement**"), attached as Exhibit 1, that provides for joint administration and enforcement of an industrial pretreatment program designed to ensure compliance with NPDES and other regulatory requirements in connection with IRWD's use of the Effluent Transmission Main and Aliso Creek Ocean Outfall. In compliance with federal and state law, IRWD intends to continue to fulfill its duties relating to pretreatment, including the adoption and enforcement of a Pretreatment Ordinance, consistent with SOCWA's pretreatment program and the Interagency Agreement.

H. Project Committee 12 (Water Reclamation Permits). IRWD is a former or non-participating member of PC 12, which handles recycled water permitting. Although IRWD ceased participation in PC 12 in 2018, IRWD has continuing unfunded actuarial liability arising out of unfunded pension obligations ("**UAL**") and other post-employment employment benefits ("**OPEB**") obligations.

I. IRWD Withdrawal from SOCWA. IRWD has determined that it could achieve efficiencies with respect to its participation in and use of SOCWA's programs and facilities by assigning its interests in SOCWA to El Toro, withdrawing from SOCWA, and contracting directly with El Toro for use of capacity in the Effluent Transmission Main and Aliso Creek Ocean Outfall. On [REDACTED] 2022 IRWD gave notice to SOCWA and all its member agencies of its intent to withdraw from SOCWA effective June 30, 2023. Coterminal with the effectiveness of

that withdrawal, IRWD hereby assigns all of its rights and duties in SOCWA and its facilities to El Toro, except that IRWD will continue to comply with SOCWA's pretreatment program requirements and any future amendments or modifications to the pretreatment requirements pursuant to IRWD's *Interagency Agreement* with SOCWA.

J. **Assignment of Capacity to El Toro.** Pursuant to this Agreement, IRWD will assign to El Toro, and El Toro will accept from IRWD, IRWD's 50% capacity allocation in Reaches B, C, and D of the Effluent Transmission Main; IRWD's 23.29% capacity allocation in Reach E of the Effluent Transmission Main; IRWD's 15.76% capacity allocation in the Aliso Creek Ocean Outfall; and all of its rights and obligations pursuant to the PC 2/21 and PC 24 Agreements, including the right to discharge Shallow Groundwater Unit Effluent (SGU Effluent) and Reverse Osmosis Brine Discharge (RO Brine Discharge) into the Effluent Transmission Main and Aliso Creek Ocean Outfall.

The Parties therefore agree as follows:

1. **Purpose.** The Parties intend by this Agreement to provide for: IRWD's assignment of its rights and duties in SOCWA and its facilities to El Toro; IRWD's payment to El Toro for all SOCWA liabilities arising out of IRWD's use of SOCWA facilities, programs, and services; IRWD's payment of all UAL/OPEB liabilities associated with IRWD's historic membership in SOCWA; IRWD's concurrent withdrawal as a member agency from SOCWA; and confirmation of IRWD's continued participation in the *Interagency Agreement* relating to the NPDES permit and related pre-treatment program requirements.

2. **Assignment and Acceptance of Capacity Interests.** IRWD hereby assigns to El Toro and El Toro hereby accepts all of IRWD's capacity interests in SOCWA facilities including specifically the interests in the Effluent Transmission Main and Aliso Creek Ocean Outfall described above, and all rights and obligations pursuant to the PC 2/21 and PC 24 Agreements. The resulting capacity allocations within the Effluent Transmission Main and the Aliso Creek Ocean Outfall, effective as of the Effective Date, are as follows:

Effluent Transmission Main (PC 2/21) Capacity Allocation Following Assignment		
Reaches B, C, D	El Toro	100%
Reach E	El Toro	46.58%
	Moulton Niguel	53.42%

Aliso Creek Ocean Outfall (PC 24) Capacity Allocation Following Assignment	
El Toro	32.062%
Moulton Niguel	43.848%
South Coast	12.31%
Laguna Beach	11.00%
Emerald Bay	0.78%
Total	100.00%

3. **Continued Discharge Capacity.** IRWD shall have the right to continue to discharge into the Effluent Transmission Main and Aliso Creek Ocean Outfall in an amount not

to exceed its pre-assignment capacity allocation, including its discharge of SGU Effluent and RO Brine Discharge from the Irvine Desalter Project.

4. **Withdrawal.** As of the Effective Date, IRWD is no longer a member of SOCWA and therefore no longer a member of the SOCWA Board of Directors, Project Committees 8, 12, 21, 24, or any other committee. Pursuant to the terms of this Agreement, El Toro will assume all of IRWD's rights and duties in connection with SOCWA and its Project Committees (including the right to discharge SGU Effluent and RO Brine Discharge into the Effluent Transmission Main and Aliso Creek Ocean Outfall) and UAL/OPEB obligations, except for compliance with the Interagency Agreement.

5. **Effect on SOCWA Board Membership.** Nothing in this Agreement is intended to affect the governance of SOCWA, except that upon the Effective Date IRWD will cease being a Member Agency. El Toro will not obtain an additional seat on the SOCWA Board of Directors or any Project Committee as a result of this assignment and assumption; the Parties understand that the number of directors on the SOCWA Board of Directors will be reduced by one director as a result of IRWD's withdrawal.

6. **Costs.**

6.1 After the Effective Date, any costs relating to IRWD's former capacity or its historic UAL/OPEB liabilities will be borne by El Toro pursuant to Section 6.2 and 6.3. Furthermore, the Parties understand that general fund costs will be allocated among remaining SOCWA member agencies based on a formula that does not allocate IRWD's former general fund costs solely to El Toro, but instead under a formula that allocates those costs either equally among the remaining agencies, or based on a formula consistent with that used in the 2022-23 fiscal year among Member Agencies.

6.2 **UAL/OPEB Liability.** IRWD acknowledges its responsibility to pay for IRWD's proportional share of any UAL/OPEB arising out of IRWD's participation in SOCWA, including its historical participation in PC 8, 12, 21, and 24. IRWD hereby assigns and El Toro hereby accepts IRWD's share of UAL/OPEB liability subject to IRWD's duty to reimburse El Toro for those costs.

6.3 The annual costs associated with the operation and maintenance of the Effluent Transmission Main and Aliso Creek Ocean Outfall, including costs associated with the administration of SOCWA's pretreatment program and general administrative costs, are allocated between the existing participating member agencies of the respective Project Committees on an annual basis through SOCWA's budgeting process. After the Effective Date, El Toro shall pay to SOCWA all costs assessed by SOCWA relating to IRWD's use of the Effluent Transmission Main and Aliso Creek Ocean Outfall, and all IRWD share of costs in PC 8 and PC 12, including all of IRWD's share of UAL/OPEB liabilities. IRWD shall pay El Toro for IRWD's share of all costs and expenses related to its discharge, including annual operation and maintenance costs, pretreatment program costs, costs of depreciation, any upgrade, expansion, or other capital, administrative, overhead or shared costs, including all of IRWD's share of UAL/OPEB liabilities on an ongoing basis, in proportion to IRWD's pre-assignment capacity allocation in each facility.

6.4 El Toro will invoice IRWD for the costs attributable to IRWD's PC 8, 12, 21, and 24 expenses on a quarterly basis, or more or less frequently as determined by the Parties. Within 30 days following receipt of an invoice from El Toro related to any SOCWA audit

or expense reconciliation, the Parties will reconcile any over- or under-payments identified in that audit or reconciliation.

6.5 **Administrative Fee.** In addition to costs assessed by SOCWA for IRWD's PC-related expenses, IRWD shall pay to El Toro an annual administrative fee of \$10,000. IRWD will pay the full administrative fee along with the first invoice by El Toro each fiscal year. The Administrative Fee amount will increase by 3% at the beginning of each fiscal year. Within 30 days after the Effective Date, IRWD shall also pay to El Toro a one-time payment of \$ [REDACTED] to reimburse El Toro for its legal costs related to preparing this Agreement.

7. Permitting and Pretreatment.

7.1 IRWD shall continue to fulfill its duties relating to waste discharge requirements and pretreatment, including the adoption of a pretreatment ordinance and enforcement response plan consistent with SOCWA's pretreatment program. IRWD shall enforce all requirements established by SOCWA with respect to the discharge of wastes to SOCWA facilities, and shall cooperate in any enforcement response or proceeding as requested by SOCWA or El Toro.

7.2 IRWD shall pay El Toro for its proportional share of costs associated with the pretreatment, permitting, and other activities of SOCWA's PC 8, pursuant to Section 6.

8. **Liability.** IRWD shall defend, indemnify, and hold harmless El Toro from any costs, losses, claims, legal actions, or other liabilities (including legal fees and costs) arising out of El Toro's assumption of IRWD's capacity rights in SOCWA, including any legal actions brought by third parties challenging the validity of this Agreement. It is the intent of the Parties to achieve operational efficiencies by way of this Agreement; it is also the intent of the Parties that El Toro not assume any additional liability as a result of assuming IRWD's rights and obligations under this Agreement.

9. **Incremental Additional Costs and/or Liability Resulting From Assignment.** As stated in Section 8, it is the intent of the parties that El Toro not assume or incur any additional costs and/or liability as a result of assuming IRWD's capacity rights and obligations under this Agreement. As such, IRWD shall reimburse El Toro an amount equal to any costs and/or liability assessed on or incurred by El Toro as a consequence of El Toro accepting IRWD's assignment of capacity herein that arises from any claims relating to the debts, liabilities, obligations, or facilities owned or operated by SOCWA or any of its Project Committees, that arise on or after the Effective Date of this Agreement. For example, if the amount of any such costs and/or liability is calculated on the basis of capacity interest owned by ETWD, inclusive of that capacity assigned herein, the amount of reimbursement due ETWD from IRWD shall be the amount by which the assigned capacity herein increases the amount of said unforeseen costs and/or liability incurred by El Toro. under this Agreement. However, El Toro shall notify IRWD at the earliest reasonable time of the amount of said costs and/or liability, the basis for and/or calculation of said costs and/or liability, and allow IRWD a reasonable time to review or audit said costs and/or liability to ensure compliance with this Section 9, and to request that El Toro consider or request that SOCWA consider a monetary adjustment if called for by that review or audit.

10. **Effect on Prior Rights.** The terms of this Agreement govern the Parties and supersede all contrary terms in prior agreements between the Parties, including but not limited to the *Joint Exercise of Powers Agreement Creating South Orange County Wastewater Authority* dated July 1, 2001.

11. **Termination.** This Agreement will continue in full force and effect until terminated by mutual written agreement of the Parties.

12. **Reconveyance and Termination Upon SOCWA Dissolution.** If SOCWA at any time ceases to own the Facilities, then El Toro may, in its sole discretion and upon reasonable notice to IRWD, reconvey back to IRWD any Facilities or Capacity assigned and assumed under this Agreement, and IRWD shall timely accept those Facilities or that Capacity and this Agreement will terminate.

13. **Amendment.** This Agreement may be amended from time to time with the prior written approval of both Parties. If the governance of SOCWA or the ownership of the Effluent Transmission Main or Aliso Creek Ocean Outfall is changed in any way that would make continued implementation of this Agreement impracticable or impossible, then the Parties will meet and confer and work in good faith to arrange for a form of continued partnership on the Effluent Transmission Main and Aliso Creek Ocean Outfall to provide for the mutual benefit of both Parties.

14. **Duty of Good Faith and Fair Dealing.** The Parties anticipate that in connection with the Effluent Transmission Main and Aliso Creek Ocean Outfall their interests are identical and non-competitive. El Toro shall ensure that if any issues arise at SOCWA in which El Toro's interests and IRWD's interests diverge, then El Toro shall keep IRWD apprised of those issues and meet and confer with IRWD about any future actions. El Toro shall advise IRWD of any material changes to SOCWA or its Project Committees that could affect IRWD's interests under this Agreement.

15. **Miscellaneous.**

15.1 *Integration, Governing Law, Amendment.* This Agreement represents the entire understanding of the Parties as to: IRWD's assignment of its capacity rights in all SOCWA facilities to El Toro; IRWD's payment of all unfunded pension liabilities associated with IRWD's membership in SOCWA; IRWD's withdrawal as a member agency from SOCWA; confirmation of IRWD's continued participation in the Interagency Agreement relating to the NPDES permit and related pre-treatment program requirements; and the Parties' interests and obligations relating to the Effluent Transmission Main or the Aliso Creek Ocean Outfall. To the extent that it contradicts or varies from this Agreement, no prior oral or written understanding shall be of any force or effect with respect to the matters covered by this Agreement. This Agreement is governed by the laws of the State of California and shall be construed as if drafted by both Parties. This Agreement may not be modified except in writing, approved and executed by both Parties.

15.2 *Third Parties.* This Agreement does not create any third-party beneficiary or any rights in any person or party other than the Parties.

15.3 *Signing Authority.* Each Party represents and warrants that each person or persons executing this Agreement on its behalf is duly authorized to do so by the respective Party and that this Agreement shall bind the Parties.

15.4 *Notices.* Any written notice required by this Agreement shall be made by U.S. mail or by reliable overnight courier and delivered to the following address, together with a courtesy copy by email:

To IRWD: Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618
Attn: General Manager/Paul A. Cook
(949) 453-5300
cc by email to cook@irwd.com

To El Toro: El Toro Water District
24251 Los Alisos Blvd.
Lake Forest, CA 92630
Attn: General Manager/Dennis Cafferty
cc by email to: dcafferty@etwd.com

Either party may, by written notice to the other, designate a different address or addressee, which will be substituted immediately for that specified above.

15.5 *Severability.* If any provision of this Agreement, for any reason, is held to be invalid, illegal, or unenforceable in any respect, that invalidity, illegality, or unenforceability will not affect any other provision of this Agreement, but this Agreement will be construed as if the invalid, illegal, or unenforceable provision had never been set forth herein, and the remainder will be enforceable to the fullest extent permitted by law.

15.6 *Successors & Assigns.* The terms of this Agreement are binding upon and will inure to the benefit of and be enforceable by the respective successors and assigns of the Parties.

15.7 *Counterparts.* This Agreement may be executed in counterparts, each of which is an original, but all of which together will constitute one and the same instrument.

The Parties are signing this Agreement as of the Effective Date.

IRVINE RANCH WATER DISTRICT

Dated: _____

By: _____
Paul A. Cook, General Manager

Approved as to Form:
Hanson Bridgett, LLP

By: _____
District Counsel

[Signatures continue on following page]

EL TORO WATER DISTRICT

Dated: _____

By: _____
Dennis Cafferty, General Manager

Approved as to Form:
Redwine & Sherrill, LLP

By: _____
District Counsel

**MINUTES OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
Board of Directors**

DRAFT

September 1, 2022

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held in-person and via teleconference on September 1, 2022, at 8:30 a.m. at the Dana Hills Tennis Center located at 24911 Calle De Tennis, Dana Point, California. The following members of the Board of Directors were present for the Meeting:

KATHRYN FRESHLEY	El Toro Water District	Director [in-person]
MATT COLLINGS	Moulton Niguel Water District	Director [in-person]
STEPHEN DOPUDJA	Trabuco Canyon Water District	Director [Zoom]
TONI ISEMAN	City of Laguna Beach	Director [Zoom]
DAN FERONS	Santa Margarita Water District	Director [in-person]
SCOTT GOLDMAN	South Coast Water District	Director [in-person]
DAVE REBENDSOLF	City of San Clemente	Director [In-person]

Absent:

MIKE DUNBAR	Emerald Bay Service District	Director
DOUG REINHART	Irvine Ranch Water District	Director

Staff Present:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
DAVID BARANOWSKI	Director of Engineering
RONI YOUNG	Associate Engineer
AMBER BAYLOR	Director of Environmental Compliance
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accounting
ANNA SUTHERLAND	Accounts Payable
DINA ASH	HR Administrator
JEANETTE COTINOLA	Procurement/Contracts Manager
SEAN PEACHER	Environmental Compliance Safety Risk Manager
MATT CLARKE	IT Administrator
MIKE MATSON	Support Services Manager
DANITA HIRSH	Executive Assistant

Also Present:

ADRIANA OCHOA	Procopio Law
DENNIS CAFFERTY	El Toro Water District
MIKE GASKINS	El Toro Water District
RICK SHINTAKU	South Coast Water District
JEREMY JUNGREIS	Rutan & Tucker
PAM ARENDS-KING	South Coast Water District
DAVID SHISSLER	City of Laguna Beach
FERNANDO PALUDI	Trabuco Canyon Water District
ERICA CASTILLO	Santa Margarita Water District
DON FROELICH	Moulton Niguel Water District
SHERRY WANNIGER	Moulton Niguel Water District
ROD WOODS	Moulton Niguel Water District
BILL MOOREHEAD	Moulton Niguel Water District
DIANE RIFKIN	Moulton Niguel Water District

1. Call to Order

Chairman Collings called the meeting to order at 8:33 a.m.

2. Pledge of Allegiance – Director Dave Rebensdorf

3. Oral Communications

None.

4. AB 361 – ALLOWING FOR VIRTUAL MEETINGS – Findings and Approval to continue Virtual Meetings

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Freshley to approve the findings and actions:

- A. The Board hereby FINDS AND DECLARES that it has considered the circumstances of the proclaimed state of emergency declared by the Governor on March 4, 2020 relating to the Covid-19 pandemic;
- B. Based on the information provided in this staff report and pursuant to the information and discussion presented in the September 1, 2022 Board meeting, the Board hereby FINDS AND DECLARES that as a result of the Covid-19 pandemic, meeting in person presents imminent risks to the health or safety of attendees, and directly impacts the ability of the members to meet safely in person; and that state and/or local officials continue to impose or recommend measures to promote social distancing;
- C. The Board hereby makes these findings and approves for the upcoming 30-day period, September 1, 2022 to October 1, 2022, regular and special meetings of the SOCWA Board and its Standing Committees and Project Committees may continue to be virtual meetings held in accordance with AB 361's Public Notice and Public Participation requirements.
- D. The Board of Directors hereby delegates authority to the Standing Committees of SOCWA to make the necessary findings to continue holding virtual meetings in accordance with AB 361 if necessary.
- E. Staff is hereby directed to notice the upcoming board and committee meetings as virtual meetings if the proclaimed state of emergency remains, unless staff makes special arrangements to hold the Board or Committee Meetings at a location that will allow for social distancing in which case the meeting may be held in person, and to place AB 361 findings on the agenda for consideration at the next occurring meeting(s) so that, at that point in time, a determination can be made regarding whether as a result of the emergency, meeting in person would continue to present imminent risks to the health or safety of attendees.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 2
Director Dunbar	Absent
Director Freshley	Aye
Director Dopudja	Aye
Director Collings	Aye
Director Reinhart	Absent
Director Iseman	Aye
Director Ferons	Aye
Director Goldman	Aye
Director Rebensdorf	Aye

5. CONSENT CALENDAR

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Goldman to approve the remaining Consent Calendar as submitted.

(5.A. thru 5.M.)

- A. 1. Minutes of Special Board of Directors May 19, 2022
- 2. Minutes of Regular Board of Directors August 4, 2022
- B. Minutes of Joint PC-2/Engineering Committee August 4, 2022
- C. 1. Minutes of Engineering Committee April 14, 2022
- 2. Minutes of Engineering Committee May 11, 2022
- 3. Minutes of Engineering Committee June 9, 2022
- D. 1. Minutes of Finance Committee April 19, 2022
- 2. Minutes of Finance Committee May 10, 2022
- E. Financial Reports for the Month of May 2022, and June 2022 Disbursements
- F. Adoption of Other Post-Employment Benefits (OPEB) PARS Trust Account Investment Guidelines and the GM Signature Authority as the Plan Administrator
- G. Other Post Employment Benefits (OPEB) Trust Account Annual Review
- H. Draft GASB 68 Report for the Fiscal Year Ended June 30, 2022
- I. Bartel Associates, LLC was acquired by Foster & Foster Consulting Actuaries, Inc. Effective July 1, 2022
- J. Operations Report (July 2022)
- K. Capital Improvement Program Status Report (August 2022)
- L. Capital Improvement Construction Projects Progress and Change Order Report (*August*) [Project Committees 2, 15, and 17]
- M. One (1) Year Contract Extension Award to Miles Chemical for Ferric Chloride

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 2
Director Dunbar	Absent
Director Freshley	Aye
Director Dopudja	Aye
Director Collings	Aye
Director Reinhart	Absent
Director Iseman	Aye
Director Ferons	Aye
Director Goldman	Aye
Director Rebensdorf	Aye

6. GENERAL MANAGER'S REPORT

- A. Aliso & San Juan Creek Ocean Outfall Inspections [Project Committee Nos. 5 and 24]

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Ferons to authorize awarding the contract for both outfall inspections to SubSea Global Solutions for an amount not to exceed \$89,600. Staff recommends that the Finance Department be instructed to retain \$90,000 cash on hand for the project with the close of the Fiscal Year Use Audit 2021-22 (cost to be shared equally between PC 5 and 24).

(continuation of agenda item 6.A.)

Motion carried:	Aye 6, Nay 0, Abstained 0, Absent 2
PC 24	Director Dunbar Absent
PC 24	Director Freshley Aye
PC 5 & 24	Director Collings Aye
PC 24	Director Iseman Aye
PC 24	Director Reinhart Absent
PC 5	Director Ferons Aye
PC 5 & 24	Director Goldman Aye
PC 5	Director Rebensdorf Aye

B. Stanford Wastewater Based Epidemiology SCAN Program Engagement

Ms. Amber Baylor, Director of Environmental Compliance updated the Board on her attendance at the 2022 CASA Conference noting Alexandria Boehm, Engineering Professor at Stanford, provided a presentation on the past and current work on the Sewer Coronavirus Alert Network. The update included a request for sampling at facilities outside of the Bay Area. Ms. Baylor stated the SCAN program has private funding for support through January 2024 and the only cost for Member Agency engagement is for sampling and shipping three times per week to the contract lab for SCAN. She stated there may also be potential for a stipend for this engagement and the request of the Board is for discussion on sampling coordination for interested facilities within the ten wastewater treatment facilities under permit through SOCWA. An open discussion ensued.

ACTION TAKEN

There was consensus of the Board of Directors to direct staff to inform Stanford Professors of the Member Agencies interests in seeking a better understanding of the scope of the study and to obtain additional written details of the scope, how the results will be used, and what are the next steps to be brought back to the next Board of Directors meeting.

C. Flows and Solids Data for FY 2021-22 (Use Audit Related)

Ms. Baylor reported on the Use Audit flow allocation methodology commenting on the historical practice for allocation of costs. She stated the intent of this agenda item is to review the methodology per Project Committee (PC) and provide comments, and approval for use in the annual Use Audit for FY 2021-22. She noted that PC 5 and PC 24 are attributed to fixed costs. An open discussion ensued.

This was an information item; no action was taken.

D. Renewal of MSDS Online and 24/7 On Call Services with VelocityEHS For \$4,907.00
[Project Committee Nos. 2, 15, 17]

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Collings to authorize the General Manager to execute the third year of the 3-year contract with VelocityEHS for \$4,907.00, for a total contract amount not to exceed \$14,721.00.

(continuation of agenda item 6.D.)

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1
PC 15 & 17	Director Dunbar Absent
PC 17	Director Freshley Aye
PC 2, 15, & 17	Director Collings Aye
PC 15 & 17	Director Iseman Aye
PC 2	Director Feronis Aye
PC 2, 15, & 17	Director Goldman Aye

E. Aptean Tabware Software Renewal for \$41,822.32 [Project Committee
Nos. 2, 15, and 17]

Director Collings suggested SOCWA Staff consider restructuring the purchasing policy to address annual license renewals and may be approved by Staff to simplify the approval process or place these types of items on the Consent Calendar.

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Feronis to approve an annual Contract renewal with Aptean for \$41,822.32 [Tabware Software].

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1
PC 15 & 17	Director Dunbar Absent
PC 17	Director Freshley Aye
PC 2, 15, & 17	Director Collings Aye
PC 15 & 17	Director Iseman Aye
PC 2	Director Feronis Aye
PC 2, 15, & 17	Director Goldman Aye

F. Cintas Corporation Extension to Uniform Rental and Laundry Service

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Freshley to authorize the General Manager to execute a one-year contract extension with Cintas Corporation at current prices (approximately \$6,000 per month).

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1
PC 15 & 17	Director Dunbar Absent
PC 17	Director Freshley Aye
PC 2, 15, & 17	Director Collings Aye
PC 15 & 17	Director Iseman Aye
PC 2	Director Feronis Aye
PC 2, 15, & 17	Director Goldman Aye

G. Eurofins Eaton Analytical Services Lab - Contract Extension 1 Year [PC. 5 & 24]

Ms. Baylor reported on the San Juan Creek and Aliso Creek Ocean Outfalls required chemistry monitoring for the NPDES permit. An open discussion ensued.

(continuation of agenda item 6.G.)

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Freshley to authorize the General Manager to extend the Eurofins Eaton Analytical Lab Services, 1 year contract at an estimated cost of \$5,000.

Motion carried:	Aye 6, Nay 0, Abstained 0, Absent 2
PC 24	Director Dunbar Absent
PC 24	Director Freshley Aye
PC 5 & 24	Director Collings Aye
PC 24	Director Reinhart Absent
PC 24	Director Iseman Aye
PC 5	Director Ferons Aye
PC 5 & 24	Director Goldman Aye
PC 5	Director Rebensdorf Aye

H. COX Communication / Fiberoptic Internet Service for the Coastal Treatment Plant [PC 15]

Mr. David Baranowski, Director of Engineering reported that the connectivity at the Coastal Treatment Plant has been experiencing issues for the past few years. He stated none of the existing internet connections in the area are reliable and resulted in frequent internet outages and work interruptions at the plant. Ms. Baranowski noted that Cox Communication submitted a revised estimate of costs after the agenda packet was posted. He requested the recommended action be amended to an estimated value over five years from \$54,000 to \$86,000 for up to five years. An open discussion ensued.

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Iseman to authorize the General Manager to enter into a multi-year (5 year) contract with Cox Communications at an estimated value over five years of \$86,000 plus nominal fees for service for fiberoptic internet.

Motion carried:	Aye 2, Nay 0, Abstained 1, Absent 1
	Director Dunbar Absent
	Director Collings Abstain
	Director Iseman Aye
	Director Goldman Aye

I. General Counsel's Updates (verbal reports)

Ms. Adriana Ochoa, General Counsel (Procopio) reported on her attendance at the CASA Conference as the Chair of the Attorney's Committee. She commented on a case study regarding government types of social media accounts relative to SB1100. Ms. Ochoa also commented on the All-Hands meeting discussion relative to the JPA revision process. She noted targeted fixes to the Joint Powers Agreement were proposed to the Board two years ago and was directed by the Board to hold off until more All-Hands discussions about the future structure of SOCWA occurred. Ms. Ochoa also stated the General Counsel has already done the work and is prepared to recirculate the proposal and restart the targeted revisions anytime the Board is ready to proceed. An open discussion ensued.

This was an information item; no action was taken.

J. General Manager's Reports

Mr. Jim Burror, Director of Operations reported on the Flex Alert that was initiated by the State on behalf of Southern California Edison's Emergency Response Program. He stated due to consistently high temperatures the State declared an electrical emergency allowing SOCWA to run their standby generators to reduce the load from the overall State grid. Mr. Burror stated the standby generators ran from 5:00pm to 8:00pm powering 10,000 homes with continued use of their air conditioners. An open discussion ensued.

Ms. Burnett reported on items relative to the Director of Environmental Compliance regarding the Dana Point Harbor Project. She noted staff will be working closely with South Coast Water District on the request from the harbor to discharge groundwater during construction to the JB Latham Plant. She also thanked Ms. Baylor for her efforts on the Asset Management Plan for the NPDES Permit, and she thanked Mr. Burror on his efforts of completing the work on the Manway Project for the Digesters at the JBL facility. Lastly, Ms. Burnett noted that at the All-Hands meeting there was some discussion about rate (cost) restructuring. She stated with the direction of the Board she proposed staff would start taking a look at alternatives of ways to construct the way we pay for things at SOCWA.

This was an information item; no action was taken.

K. MNWD Request to Operate AWT Facility at Regional Treatment Plant [Project Committee 17]

Director Collings commented on the letter that went from Moulton Niguel Water District (MNWD) to SOCWA regarding their notification of resuming operations of the Advanced Wastewater Treatment (AWT) Facilities at the Joint Regional Plant. Ms. Burnett suggested SOCWA staff could take a look at how an agreement between MNWD and SOCWA might work for MNWD to operate the AWT and return to the Board. An open discussion ensued.

This was an information item; no action was taken.

L. Upcoming Meetings Schedule

The upcoming meeting schedule was reported as noted below:

- September 2022 – PC-15 Committee Meeting – Actual Date to Be Determined to discuss CTP Capital Funding Options
- August 31, 2022 – All-Hands Meeting
- September 1, 2022 – Board of Directors Regular Meeting
- September 8, 2022 – Engineering Committee Regular Meeting
- September 13, 2022 – PC-2 Committee Meeting (*Tentative*)
- September 20, 2022 – Finance Committee Special Meeting
- September 27, 2022 – PC-2 Committee Meeting (*Tentative*)

This was an information item; no action was taken.

The Board convened to Closed Session at 10:14 a.m.
The Board reconvened to Open Session at 11:01 a.m.

7. CLOSED SESSION

A Closed Session conference was held with legal counsel for Cyber Security/Security of Essential Public Services pursuant to Government Code Section § 54957 (a).

Counsel stated that there were no reportable actions.

8. OTHER MATTERS

None.

ADJOURNMENT

There being no further business, Director Collings adjourned the meeting at 11:01 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Board of Directors on September 1, 2022 and approved by the Board of Directors of the South Orange County Wastewater Authority.

Betty Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**MINUTES OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
Finance Committee**

August 16, 2022

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on August 16, 2022, at 10:30 a.m. via teleconference from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present via Zoom Meeting:

DENNIS CAFFERTY	El Toro Water District	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director
TONI ISEMAN	City of Laguna Beach	Director
DAN FERONS	Santa Margarita Water District	Director
PAMELA ARENDS-KING	South Coast Water District	Alternate Director

Staff Participation:

BETTY BURNETT	General Manager
MARY CAREY	Finance Controller
AMBER BAYLOR	Director of Environmental Compliance
JIM BURROR	Director of Operations
DAVID BARANOWSKI	Director of Engineering
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
JEANETTE COTINOLA	Procurement/ Contracts Manager
DINA ASH	HR Administrator
MATT CLARKE	IT Administrator
DANITA HIRSH	Executive Assistant

Also Participating:

ADRIANA OCHOA	Procopio Law
KATHRYN FRESHLEY	El Toro Water District
SHERRY WANNINGER	Moulton Niguel Water District
ROD WOODS	Moulton Niguel Water District
JASON HAYDEN	El Toro Water District
ERICA CASTILLO	Santa Margarita Water District

1. Call Meeting to Order

Chairman Ferons called the meeting to order at 10:30 a.m.

2. Public Comments

None.

3. Approval of Minutes

- a. Finance Committee Meeting of April 19, 2022
- b. Finance Committee Meeting of May 10, 2022

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Arends-King to approve subject Minutes as submitted.

Motion carried:	Aye 4, Nay 0, Abstained 1, Absent 0
	Director Ferons Aye
	Director Iseman Abstain
	Director Cafferty Aye
	Director Collings Aye
	Director Arends-King Aye

4. Financial Reports for the Month of May 2022, and June 2022 Disbursements

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Arends-King to recommend to the Board of Directors (i) ratify the May 2022 disbursements for the period from May 1, 2022, through May 31, 2022, totaling \$3,370,435, and to receive and file the May 2022 Financial Reports as submitted; and (ii) ratify the June 2022 disbursements for the period from June 1, through June 30, 2022, totaling \$3,206,691.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 0
	Director Ferons Aye
	Director Iseman Aye
	Director Cafferty Aye
	Director Collings Aye
	Director Arends-King Aye

5. Adoption of Other Post-Employment Benefits (OPEB) PARS Trust Account Investment Guidelines and the GM Signature Authority as Plan Administrator

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Cafferty to recommend that the Board of Directors provide comments on the Draft Guidelines and adopt the Investment Guidelines including the GM Signature Authority as the Plan Administrator.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 0
	Director Ferons Aye
	Director Iseman Aye
	Director Cafferty Aye
	Director Collings Aye
	Director Arends-King Aye

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6. Other Post-Employment Benefits (OPEB) Trust Account Annual Review

Ms. Carey, Finance Controller updated the Finance Committee on the account balances of SOCWA's OPEB Plan as of June 30, 2022.

ACTION TAKEN

Motion was made by Director Arends-King and seconded by Director Collings that the Board of Directors receive and file the PARS report.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 0
	Director Ferons Aye
	Director Iseman Aye
	Director Cafferty Aye
	Director Collings Aye
	Director Arends-King Aye

7. Draft GASB 68 Report for the Fiscal Year Ended June 30, 2022

Ms. Carey provided an update on the GASB 68 for CalPERS agency cost sharing plans. She reported details of the calculation of the Net Pension Liability that the Authority will record in its' Audited Net Position Statement as of June 30, 2022. An open discussion ensued.

This was an information item; no action was taken.

8. Update on 457b Plan Services, Pricing, and Survey

Ms. Burnett, General Manager and Dina Ash, HR Administrator updated the Finance Committee on the SOCWA 457(b) plan fee structure for Nationwide and the Advisory Services from First Light Retirement, LLC. An open discussion ensued.

This was an information item; no action was taken.

9. Bartel Associates, LLC was acquired by Foster & Foster Consulting Actuaries, Inc. Effective July 1, 2022

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Ferons that the Board of Directors authorize the General Manager to modify the Bartel services contract to receive services from the acquiring firm, Foster and Foster.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 0
	Director Ferons Aye
	Director Iseman Aye
	Director Cafferty Aye
	Director Collings Aye
	Director Arends-King Aye

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 11:09 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of August 16, 2022 and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Betty Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Agenda Item

7.C.

Board of Directors Meeting

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: *Preliminary* Financial Reports for the Month of June 2022, and Financial Reports for the Month of July 2022

Summary/Discussion

The following selected financial reports are routinely provided monthly to the Finance Committee for recommendation to the Board of Directors to ratify Cash Disbursements and receive and file the remaining documents.

The reports included are as follows:

- June 2022 Preliminary Financial Reports:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)
 - FY 2021-22 Fringe Pool and Fringe Rate (Exhibit E-5)
- July 2022 Financial Reports:
 - a. Summary of Disbursements for July 2022 (Exhibit A-1);
 - b. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
 - c. Schedule of Cash and Investments (Exhibit C)
 - d. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
 - e. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

Fiscal impact

The June 2022 cash disbursements of \$ 3,206,691 was presented to the Finance Committee on August 16, 2022 and was approved by the Board of Directors during the Board of Directors' Meeting on September 1, 2022.

The above June 2022 schedules are for informational purposes only.

The July 2022 cash disbursements were: \$4,925,747

- Monthly disbursements are summarized in the attached Exhibit A.
- The attached Exhibits B, C, D and E are informational reports only.

Recommended Action: The Finance Committee recommends that the Board of Directors (i) receive and file the June 2022 (Preliminary) Financial Reports, (ii) ratify the July 2022 disbursements for the period from July 1, through July 31, 2022, totaling \$4,925,747.

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended June 30, 2022
(in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe								
5000--**	Regular Salaries-O&M	4,847,168		4,847,168	4,328,572	518,596	89.3%	
5001--**	Overtime Salaries-O&M	107,256		107,256	138,152	(30,896)	128.8%	(1)
5306--**	Scheduled Holiday Work	91,000		91,000	86,393	4,607	94.9%	
5315--**	Comp Time - O&M	15,980		15,980	35,317	(19,337)	221.0%	(1)
5401--**	Fringe Benefits IN to PC's & Depts.	2,511,460		2,511,460	2,457,768	53,692	97.9%	
5700--**	Standby Pay	67,600		67,600	67,861	(261)	100.4%	
	Total Payroll Costs	7,640,464	-	7,640,464	7,114,063	526,401	93.1%	
Other Expenses								
5002--**	Electricity	1,170,780	30,000	1,200,780	1,240,571	(39,791)	103.3%	(2)
5003--**	Natural Gas	226,008	100,000	326,008	389,075	(63,067)	119.3%	(3)
5004--**	Potable & Reclaimed Water	85,000		85,000	72,031	12,969	84.7%	
5005--**	Co-generation Power Credit	(686,000)		(686,000)	(1,061,264)	375,264	154.7%	(2)
5006--**	Chlorine/Sodium Hypochlorite	502,008	15,000	517,008	621,211	(104,203)	120.2%	(4)
5007--**	Polymer Products	747,004		747,004	829,845	(82,841)	111.1%	(4)
5008--**	Ferric Chloride	588,004	90,000	678,004	688,063	(10,059)	101.5%	(4)
5009--**	Odor Control Chemicals	107,016	15,000	122,016	112,148	9,868	91.9%	(4)
5010--**	Other Chemicals - Misc.	2,004		2,004	-	2,004	-	
5011--**	Laboratory Services	65,196		65,196	31,591	33,605	48.5%	
5012--**	Grit Hauling	120,000	18,000	138,000	167,805	(29,805)	121.6%	(5)
5013--**	Landscaping	219,008		219,008	224,888	(5,880)	102.7%	
5015--**	Management Support Services	475,000	60,000	535,000	118,496	416,504	22.1%	
5016--**	Audit - Environmental	1,304		1,304	-	1,304	-	
5017--**	Legal Fees	48,612	37,070	85,682	112,945	(27,263)	131.8%	
5018--**	Public Notices/ Public Relations	6,000		6,000	-	6,000	-	
5019--**	Contract Services Misc.	277,016		277,016	336,097	(59,081)	121.3%	(4)
5021--**	Small Vehicle Expense	23,080		23,080	31,494	(8,414)	136.5%	
5022--**	Miscellaneous Expense	16,012		16,012	4,565	11,447	28.5%	
5023--**	Office Supplies - All	46,008		46,008	31,555	14,453	68.6%	
5024--**	Petroleum Products	34,008		34,008	15,508	18,500	45.6%	
5025--**	Uniforms	70,996		70,996	74,351	(3,355)	104.7%	
5026--**	Small Vehicle Fuel	22,656		22,656	18,667	3,989	82.4%	
5027--**	Insurance - Property/Liability	317,684	75,000	392,684	410,049	(17,365)	104.4%	(6)
5028--**	Small Tools & Supplies	80,000		80,000	64,574	15,426	80.7%	
5030--**	Trash Disposal	8,500		8,500	8,394	106	98.7%	
5031--**	Safety Program & Supplies	119,344		119,344	87,818	31,526	73.6%	
5032--**	Equipment Rental	7,004		7,004	26,745	(19,741)	381.9%	(7)
5033--**	Recruitment	2,500		2,500	3,070	(570)	122.8%	
5034--**	Travel Expense/Tech. Conferences	29,928		29,928	9,125	20,803	30.5%	
5035--**	Training Expense	47,996		47,996	29,469	18,527	61.4%	
5036--**	Laboratory Supplies	124,400		124,400	129,793	(5,393)	104.3%	
5037--**	Office Equipment	25,992		25,992	18,582	7,410	71.5%	
5038--**	Permits	489,996	12,000	501,996	545,780	(43,784)	108.7%	(8)
5039--**	Membership Dues/Fees	17,872		17,872	19,885	(2,013)	111.3%	
5044--**	Offshore Monitoring	151,000		151,000	93,213	57,787	61.7%	
5045--**	Offshore Biochemistry - 20B	23,024		23,024	-	23,024	-	
5046--**	Effluent Chemistry	70,000		70,000	30,193	39,808	43.1%	
5047--**	Access Road Expenses	45,000		45,000	1,861	43,139	4.1%	
5048--**	Storm Damage	21,000		21,000	-	21,000	-	
5049--**	Biosolids Disposal	1,470,000	20,000	1,490,000	1,616,875	(126,875)	108.5%	(4)
5050--**	Contract Services Generators - 29A	28,008		28,008	16,884	11,124	60.3%	
5052--**	Janitorial Services	101,004		101,004	80,726	20,278	79.9%	
5053--**	Contract Serv - Digester Cleaning - 29E	60,000	30,000	90,000	46,498	43,502	51.7%	
5054--**	Diesel Truck Maint	42,000		42,000	30,454	11,546	72.5%	
5055--**	Diesel Truck Fuel	11,500		11,500	11,285	215	98.1%	
5056--**	Maintenance Equip. & Facilities (Solids)	366,000	50,000	416,000	333,694	82,306	80.2%	
5057--**	Maintenance Equip. & Facilities (Liquids)	651,996		651,996	628,890	23,106	96.5%	
5058--**	Maintenance Equip. & Facilities (Common)	90,008	45,000	135,008	108,101	26,907	80.1%	
5059--**	Maintenance Equip. & Facilities (Co-Gen)	738,996		738,996	809,446	(70,450)	109.5%	(9)
5060--**	Maintenance Equip. & Facilities (AWT)	88,000		88,000	65,015	22,985	73.9%	
5061--**	Mileage	3,608		3,608	2,022	1,586	56.0%	
5068--**	MNWD Potable Water Supplies & Svcs.	28,000		28,000	40,151	(12,151)	143.4%	(10)
5074--**	Education Reimbursement	1,996		1,996	551	1,445	27.6%	

**South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary**

For the Period Ended June 30, 2022
(in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
5076--**	SCADA Infrastructure	86,596		86,596	81,411	5,185	94.0%
5077--**	IT Direct	5,508		5,508	2,107	3,401	38.3%
5105--**	Co-Generation Power Credit - Offset	685,992		685,992	1,061,264	(375,272)	154.7% (2)
5303--**	Group Insurance Waiver	14,392		14,392	16,657	(2,265)	115.7%
5305--**	Medicare Tax Payments for Employees	2,160		2,160	2,118	42	98.0%
5309--**	Operating Leases	26,000		26,000	-	26,000	-
5705--**	Monthly Car Allowance	35,396		35,396	36,344	(948)	102.7%
5799--**	Zephyr Wall Costs Share-O&M	(14,000)		(14,000)	(8,147)	(5,853)	58.2%
6500--**	IT Allocations in to PC's & Depts.	610,540		610,540	527,106	83,434	86.3%
	Total Other Expenses	10,881,660	597,070	11,478,730	11,047,642	431,088	96.2%
Total O&M Expenses		18,522,124	597,070	19,119,194	18,161,705	957,489	95.0%

* 02/03/2022 Board approved budget amendment for PC 12-Water Reclamation Management Support Services, \$45,000, for Support Services Salt & Nutrient Management Plan.

* 02/03/2022 Board approved budget amendment for PC 2- \$5,000, PC 15- \$5,000, PC 17- \$5,000 Management Support Services, total \$15,000 for CASA Climate Change Program.

* 02/14/2022 PC 23 Committee approved budget amendment for PC 23 - \$7,070, for work performed on the Intertie Project.

* 05/19/2022 Board approved budget amendment for PC 2 - \$430,000 and PC 17 - \$100,000, due to expense inflationary increase.

- (1) Increased costs due to the Coastal Fire and construction support at JBL.
- (2) Increased power costs due to changes in utility demand charges and additional solids at JBL.
- (3) Additional natural gas was used to run the cogeneration system at RTP during warranty repairs on the digester gas cleaning system.
- (4) Costs were elevated due to contract price increases due to hauling and diesel cost increases and supply chain interruptions.
- (5) Increased grit from digester cleaning process and upstream treatment plant to JBL.
- (6) Property Liability insurance rate increased due to insurers' increases in California.
- (7) Rental usage increased due to supply chain interruptions delaying SOCWA's equipment repairs.
- (8) Increased permit fees reported to the Board November 2021.
- (9) Additional cogeneration system costs were incurred during RTP warranty repairs on the digester gas cleaning system.
- (10) Annual laboratory proficiency testing costs for potable water certification and increased costs of consumables.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended June 30, 2022
(in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
02 - Jay B. Latham Plant								
Salary and Fringe								
02-5000-**-**-**	Regular Salaries-O&M	1,585,228		1,585,228	1,534,572	50,656	96.8%	
02-5001-**-**-**	Overtime Salaries-O&M	37,904		37,904	71,013	(33,109)	187.4%	(1)
02-5306-**-**-**	Scheduled Holiday Work	36,600		36,600	33,446	3,154	91.4%	
02-5315-**-**-**	Comp Time - O&M	8,264		8,264	18,730	(10,466)	226.6%	(1)
02-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	821,352		821,352	871,332	(49,980)	106.1%	
02-5700-**-**-**	Standby Pay	25,096		25,096	27,983	(2,887)	111.5%	
	Total Payroll Costs	2,514,444	-	2,514,444	2,557,076	(42,632)	101.7%	
Other Expenses								
02-5002-**-**-**	Electricity	506,564	30,000	536,564	583,342	(46,778)	108.7%	(2)(4)
02-5003-**-**-**	Natural Gas	132,160	70,000	202,160	197,626	4,534	97.8%	
02-5004-**-**-**	Potable & Reclaimed Water	25,000		25,000	25,246	(246)	101.0%	
02-5006-**-**-**	Chlorine/Sodium Hypochlorite	8,000	15,000	23,000	20,825	2,175	90.5%	
02-5007-**-**-**	Polymer Products	305,000		305,000	315,754	(10,754)	103.5%	(2)(4)
02-5008-**-**-**	Ferric Chloride	200,000	90,000	290,000	245,786	44,214	84.8%	
02-5009-**-**-**	Odor Control Chemicals	21,004	15,000	36,004	25,738	10,266	71.5%	
02-5010-**-**-**	Other Chemicals - Misc.	1,000		1,000	-	1,000	-	
02-5011-**-**-**	Laboratory Services	19,000		19,000	9,519	9,481	50.1%	
02-5012-**-**-**	Grit Hauling	55,000	18,000	73,000	100,013	(27,013)	137.0%	(3)
02-5013-**-**-**	Landscaping	77,004		77,004	69,440	7,564	90.2%	
02-5015-**-**-**	Management Support Services	30,008	5,000	35,008	37,338	(2,330)	106.7%	
02-5017-**-**-**	Legal Fees	4,996		4,996	4,541	455	90.9%	
02-5019-**-**-**	Contract Services Misc.	70,636		70,636	110,512	(39,876)	156.5%	(4)
02-5021-**-**-**	Small Vehicle Expense	11,000		11,000	11,553	(553)	105.0%	
02-5022-**-**-**	Miscellaneous Expense	8,000		8,000	2,389	5,611	29.9%	
02-5023-**-**-**	Office Supplies - All	29,000		29,000	17,534	11,466	60.5%	
02-5024-**-**-**	Petroleum Products	11,004		11,004	717	10,287	6.5%	
02-5025-**-**-**	Uniforms	33,996		33,996	33,751	245	99.3%	
02-5026-**-**-**	Small Vehicle Fuel	10,004		10,004	6,953	3,051	69.5%	
02-5027-**-**-**	Insurance - Property/Liability	108,384	35,000	143,384	145,112	(1,728)	101.2%	(5)
02-5028-**-**-**	Small Tools & Supplies	38,000		38,000	27,911	10,089	73.4%	
02-5030-**-**-**	Trash Disposal	3,000		3,000	3,765	(765)	125.5%	
02-5031-**-**-**	Safety Program & Supplies	41,000		41,000	42,187	(1,187)	102.9%	
02-5032-**-**-**	Equipment Rental	3,000		3,000	6,324	(3,324)	210.8%	(6)
02-5033-**-**-**	Recruitment	348		348	970	(622)	278.7%	
02-5034-**-**-**	Travel Expense/Tech. Conferences	9,012		9,012	845	8,167	9.4%	
02-5035-**-**-**	Training Expense	16,976		16,976	9,925	7,051	58.5%	
02-5036-**-**-**	Laboratory Supplies	21,004		21,004	16,374	4,630	78.0%	
02-5037-**-**-**	Office Equipment	13,000		13,000	5,892	7,108	45.3%	
02-5038-**-**-**	Permits	13,496	12,000	25,496	26,401	(905)	103.6%	(7)
02-5039-**-**-**	Membership Dues/Fees	4,516		4,516	3,473	1,043	76.9%	
02-5049-**-**-**	Biosolids Disposal	620,000	20,000	640,000	729,710	(89,710)	114.0%	(2)(4)
02-5050-**-**-**	Contract Services Generators - 29A	10,004		10,004	12,739	(2,735)	127.3%	
02-5052-**-**-**	Janitorial Services	47,000		47,000	39,457	7,543	84.0%	
02-5053-**-**-**	Contract Serv - Digester Cleaning - 29E	60,000	30,000	90,000	46,498	43,502	51.7%	
02-5054-**-**-**	Diesel Truck Maint	22,000		22,000	11,113	10,887	50.5%	
02-5055-**-**-**	Diesel Truck Fuel - 37B	2,996		2,996	3,147	(151)	105.0%	
02-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	155,000	50,000	205,000	148,906	56,094	72.6%	
02-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	260,000		260,000	207,282	52,718	79.7%	
02-5058-**-**-**	Maintenance Equip. & Facilities (Common)	29,000	45,000	74,000	57,545	16,455	77.8%	
02-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	277,120		277,120	289,386	(12,266)	104.4%	
02-5061-**-**-**	Mileage	2,104		2,104	763	1,341	36.2%	
02-5076-**-**-**	SCADA Infrastructure	28,960		28,960	27,137	1,823	93.7%	
02-5077-**-**-**	IT Direct	2,620		2,620	2,033	587	77.6%	
02-5303-**-**-**	Group Insurance Waiver	3,596		3,596	5,815	(2,219)	161.7%	
02-5309-**-**-**	Operating Leases	26,000		26,000	-	26,000	-	
02-5705-**-**-**	Monthly Car Allowance	22,804		22,804	22,888	(84)	100.4%	
02-5799-**-**-**	Zephyr Wall Costs Share-O&M	(14,000)		(14,000)	(8,147)	(5,853)	58.2%	
02-6500-**-**-**	IT Allocations in to PC's & Depts.	199,812		199,812	172,503	27,309	86.3%	
	Total Other Expenses	3,585,128	435,000	4,020,128	3,876,532	143,596	96.4%	
	Total Expenses	6,099,572	435,000	6,534,572	6,433,607	100,965	98.5%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended June 30, 2022
(in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
05 - San Juan Creek Ocean Outfall								
Salary and Fringe								
05-5000-**-**-**	Regular Salaries-O&M	146,556		146,556	120,491	26,065	82.2%	
05-5001-**-**-**	Overtime Salaries-O&M	72		72	444	(372)	617.2%	
05-5306-**-**-**	Scheduled Holiday Work	416		416	350	66	84.0%	
05-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	75,928		75,928	68,415	7,513	90.1%	
	Total Payroll Costs	222,972	-	222,972	189,699	33,273	85.1%	
Other Expenses								
05-5015-**-**-**	Management Support Services	212,500		212,500	41,732	170,768	19.6%	
05-5017-**-**-**	Legal Fees	2,008		2,008	-	2,008	-	
05-5026-**-**-**	Small Vehicle Fuel	500		500	-	500	-	
05-5027-**-**-**	Insurance - Property/Liability	9,668		9,668	13,598	(3,930)	140.7%	(5)
05-5031-**-**-**	Safety Supplies	1,052		1,052	-	1,052	-	
05-5033-**-**-**	Recruitment	556		556	-	556	-	
05-5034-**-**-**	Travel Expense/Tech. Conferences	1,512		1,512	921	591	60.9%	
05-5035-**-**-**	Training Expense	1,952		1,952	720	1,232	36.9%	
05-5036-**-**-**	Laboratory Supplies	35,000		35,000	39,863	(4,863)	113.9%	
05-5038-**-**-**	Permits	228,968		228,968	237,612	(8,644)	103.8%	(7)
05-5039-**-**-**	Membership Dues/Fees	216		216	225	(9)	104.2%	
05-5044-**-**-**	Offshore Monitoring	75,496		75,496	46,452	29,044	61.5%	
05-5045-**-**-**	Offshore Biochemistry - 20B	11,512		11,512	-	11,512	-	
05-5046-**-**-**	Effluent Chemistry	35,000		35,000	14,580	20,420	41.7%	
05-5056-**-**-**	Maintenance Equip. & Facilities (Solids) 41-A	-		-	572	(572)	-	
05-5058-**-**-**	Maintenance Equip. & Facilities (Common)	1,004		1,004	375	629	37.4%	
05-6500-**-**-**	IT Allocations in to PC's & Depts.	18,464		18,464	15,936	2,528	86.3%	
	Total Other Expenses	635,408	-	635,408	412,586	222,822	64.9%	
	Total Expenses	858,380	-	858,380	602,285	256,095	70.2%	
08 - Pre Treatment								
Salary and Fringe								
08-5000-**-**-**	Regular Salaries-O&M	117,772		117,772	104,071	13,701	88.4%	
08-5315-**-**-**	Comp Time - O&M	-		-	419	(419)	-	
08-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	61,016		61,016	59,091	1,925	96.8%	
	Total Payroll Costs	178,788	-	178,788	163,581	15,207	91.5%	
Other Expenses								
08-5011-**-**-**	Laboratory Services	3,200		3,200	-	3,200	-	
08-5016-**-**-**	Audit - Environmental	1,304		1,304	-	1,304	-	
08-5017-**-**-**	Legal Fees	2,596		2,596	4,695	(2,099)	180.9%	
08-5018-**-**-**	Public Notices/ Public Relations	6,000		6,000	-	6,000	-	
08-5021-**-**-**	Small Vehicle Expense - 31A	1,076		1,076	-	1,076	-	
08-5022-**-**-**	Miscellaneous Expense	2,008		2,008	41	1,967	2.0%	
08-5026-**-**-**	Small Vehicle Fuel - 37A	1,148		1,148	303	845	26.4%	
08-5027-**-**-**	Insurance - Property/Liability	3,024		3,024	4,331	(1,307)	143.2%	(5)
08-5028-**-**-**	Small Tools & Supplies	3,000		3,000	2,033	967	67.8%	
08-5034-**-**-**	Travel Expense/Tech. Conferences	2,732		2,732	3,153	(421)	115.4%	
08-5035-**-**-**	Training Expense	-		-	450	(450)	-	
08-5038-**-**-**	Permits and Fines	3,132		3,132	-	3,132	-	
08-5039-**-**-**	Membership Dues/Fees	-		-	438	(438)	-	
08-6500-**-**-**	IT Allocations in to PC's & Depts.	14,832		14,832	12,807	2,025	86.3%	
	Total Other Expenses	44,052	-	44,052	28,252	15,800	64.1%	
	Total Expenses	222,840	-	222,840	191,833	31,007	86.1%	
12 - Water Reclamation Permits								
Salary and Fringe								
12-5000-**-**-**	Regular Salaries-O&M	44,808		44,808	25,279	19,529	56.4%	
12-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	23,208		23,208	14,353	8,855	61.8%	
	Total Payroll Costs	68,016	-	68,016	39,632	28,384	58.3%	
Other Expenses								
12-5015-**-**-**	Management Support Services	-	45,000	45,000	2,379	42,621	-	
12-5017-**-**-**	Legal Fees	2,000		2,000	7,676	(5,676)	383.8%	
12-5027-**-**-**	Insurance - Property/Liability	5,164		5,164	1,831	3,333	35.5%	
12-5034-**-**-**	Travel Expense/Tech. Conferences	920		920	221	699	24.0%	
12-5038-**-**-**	Permits	12,044		12,044	24,491	(12,447)	203.3%	(7)
12-5039-**-**-**	Membership Dues/Fees	68		68	-	68	0.0%	
12-6500-**-**-**	IT Allocations in to PC's & Depts.	5,640		5,640	4,872	768	86.4%	
	Total Other Expenses	25,836	45,000	70,836	41,470	29,366	58.5%	
	Total Expenses	93,852	45,000	138,852	81,103	57,749	58.4%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended June 30, 2022
(in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
15 - Coastal Treatment Plant								
Salary and Fringe								
15-5000-**-**-**	Regular Salaries-O&M	1,083,504		1,083,504	893,154	190,350	82.4%	
15-5001-**-**-**	Overtime Salaries-O&M	19,208		19,208	29,583	(10,375)	154.0%	(8)
15-5306-**-**-**	Scheduled Holiday Work	15,584		15,584	16,934	(1,350)	108.7%	
15-5315-**-**-**	Comp Time - O&M	2,000		2,000	8,793	(6,793)	439.6%	(8)
15-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	561,396		561,396	507,134	54,262	90.3%	
15-5700-**-**-**	Standby Pay	16,504		16,504	9,133	7,371	55.3%	
	Total Payroll Costs	1,698,196	-	1,698,196	1,464,731	233,465	86.3%	
Other Expenses								
15-5002-**-**-**	Electricity	202,348		202,348	303,510	(101,162)	150.0%	(9)
15-5003-**-**-**	Natural Gas	2,872		2,872	4,228	(1,356)	147.2%	
15-5004-**-**-**	Potable & Reclaimed Water	25,000		25,000	24,958	42	99.8%	
15-5006-**-**-**	Chlorine/Sodium Hypochlorite	94,004		94,004	100,305	(6,301)	106.7%	
15-5007-**-**-**	Polymer Products	1,004		1,004	-	1,004	-	
15-5008-**-**-**	Ferric Chloride	58,000		58,000	75,572	(17,572)	130.3%	(4)
15-5009-**-**-**	Odor Control Chemicals	51,004		51,004	46,042	4,962	90.3%	
15-5011-**-**-**	Laboratory Services	20,000		20,000	9,030	10,970	45.2%	
15-5012-**-**-**	Grit Hauling	23,000		23,000	21,416	1,584	93.1%	
15-5013-**-**-**	Landscaping	57,000		57,000	68,982	(11,982)	121.0%	(8)
15-5015-**-**-**	Management Support Services	10,000	5,000	15,000	1,125	13,875	7.5%	
15-5017-**-**-**	Legal Fees	30,000		30,000	18,911	11,089	63.0%	
15-5019-**-**-**	Contract Services Misc.	91,732		91,732	103,351	(11,619)	112.7%	(4)
15-5021-**-**-**	Small Vehicle Expense	4,004		4,004	5,861	(1,857)	146.4%	
15-5022-**-**-**	Miscellaneous Expense	1,000		1,000	808	192	80.8%	
15-5023-**-**-**	Office Supplies - All	4,004		4,004	4,757	(753)	118.8%	
15-5024-**-**-**	Petroleum Products	3,000		3,000	4,717	(1,717)	157.2%	(8)
15-5025-**-**-**	Uniforms	9,000		9,000	8,477	523	94.2%	
15-5026-**-**-**	Small Vehicle Fuel	2,000		2,000	3,165	(1,165)	158.2%	
15-5027-**-**-**	Insurance - Property/Liability	47,112		47,112	63,756	(16,644)	135.3%	(5)
15-5028-**-**-**	Small Tools & Supplies	9,000		9,000	4,223	4,777	46.9%	
15-5030-**-**-**	Trash Disposal	2,996		2,996	2,706	290	90.3%	
15-5031-**-**-**	Safety Supplies	35,000		35,000	14,415	20,586	41.2%	
15-5032-**-**-**	Equipment Rental	1,000		1,000	-	1,000	-	
15-5033-**-**-**	Recruitment	312		312	100	212	32.1%	
15-5034-**-**-**	Travel Expense/Tech. Conferences	5,244		5,244	180	5,064	3.4%	
15-5035-**-**-**	Training Expense	11,632		11,632	6,937	4,695	59.6%	
15-5036-**-**-**	Laboratory Supplies	14,000		14,000	22,102	(8,102)	157.9%	
15-5037-**-**-**	Office Equipment	2,996		2,996	4,953	(1,957)	165.3%	
15-5038-**-**-**	Permits	4,820		4,820	6,451	(1,631)	133.8%	(7)
15-5039-**-**-**	Membership Dues/Fees	4,960		4,960	5,282	(322)	106.5%	
15-5047-**-**-**	Access Road Expenses	45,000		45,000	1,861	43,139	4.1%	
15-5048-**-**-**	Storm Damage	21,000		21,000	-	21,000	-	
15-5049-**-**-**	Biosolids Disposal	-		-	10,308	(10,308)	-	(11)
15-5050-**-**-**	Contract Services Generators - 29A	5,000		5,000	-	5,000	-	
15-5052-**-**-**	Janitorial Services	12,004		12,004	13,045	(1,041)	108.7%	
15-5054-**-**-**	Diesel Truck Maint - 31B	1,000		1,000	-	1,000	-	
15-5055-**-**-**	Diesel Truck Fuel - 37B	504		504	-	504	-	
15-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	149,996		149,996	190,848	(40,852)	127.2%	(8)
15-5058-**-**-**	Maintenance Equip. & Facilities (Common)	23,000		23,000	17,830	5,170	77.5%	
15-5060-**-**-**	Maintenance Equip. & Facilities (AWT)	38,000		38,000	33,451	4,549	88.0%	
15-5061-**-**-**	Mileage	500		500	391	109	78.3%	
15-5076-**-**-**	SCADA Infrastructure	28,952		28,952	27,137	1,815	93.7%	
15-5077-**-**-**	IT Direct	264		264	37	227	14.0%	
15-5303-**-**-**	Group Insurance Waiver	3,600		3,600	3,752	(152)	104.2%	
15-5305-**-**-**	Medicare Tax Payments for Employees	2,160		2,160	2,118	42	98.0%	
15-5705-**-**-**	Monthly Car Allowance	4,196		4,196	4,216	(20)	100.5%	
15-6500-**-**-**	IT Allocations in to PC's & Depts.	136,476		136,476	117,827	18,649	86.3%	
	Total Other Expenses	1,299,696	5,000	1,304,696	1,359,142	(54,446)	104.2%	
	Total Expenses	2,997,892	5,000	3,002,892	2,823,872	179,020	94.0%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended June 30, 2022
(in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
17 - Joint Regional Wastewater Reclamation and Sludge Handling							
Salary and Fringe							
17-5000-**-**-**	Regular Salaries-O&M	1,718,916		1,718,916	1,541,417	177,499	89.7%
17-5001-**-**-**	Overtime Salaries-O&M	49,452		49,452	35,934	13,518	72.7%
17-5306-**-**-**	Scheduled Holiday Work	38,136		38,136	35,314	2,822	92.6%
17-5315-**-**-**	Comp Time - O&M	5,716		5,716	7,375	(1,659)	129.0%
17-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	890,632		890,632	875,219	15,413	98.3%
17-5700-**-**-**	Standby Pay	26,000		26,000	30,745	(4,745)	118.3%
	Total Payroll Costs	2,728,852	-	2,728,852	2,526,004	202,848	92.6%
Other Expenses							
17-5002-**-**-**	Electricity	461,868		461,868	353,719	108,149	76.6%
17-5003-**-**-**	Natural Gas	90,976	30,000	120,976	187,221	(66,245)	154.8% (12)
17-5004-**-**-**	Potable & Reclaimed Water	35,000		35,000	21,827	13,173	62.4%
17-5005-**-**-**	Co-generation Power Credit	(686,000)		(686,000)	(1,061,264)	375,264	154.7% (9)
17-5006-**-**-**	Chlorine/Sodium Hypochlorite	400,004		400,004	500,081	(100,077)	125.0% (4)
17-5007-**-**-**	Polymer Products	441,000		441,000	514,091	(73,091)	116.6% (4)
17-5008-**-**-**	Ferric Chloride	330,004		330,004	366,706	(36,702)	111.1% (4)
17-5009-**-**-**	Odor Control Chemicals	35,008		35,008	40,368	(5,360)	115.3% (4)
17-5010-**-**-**	Other Chemicals - Misc.	1,004		1,004	-	1,004	-
17-5011-**-**-**	Laboratory Services	22,996		22,996	13,041	9,955	56.7%
17-5012-**-**-**	Grit Hauling - 21A	42,000		42,000	46,375	(4,375)	110.4%
17-5013-**-**-**	Landscaping	85,004		85,004	86,465	(1,461)	101.7%
17-5015-**-**-**	Management Support Services	9,996	5,000	14,996	10,625	4,371	70.9%
17-5017-**-**-**	Legal Fees	5,004	30,000	35,004	70,060	(35,056)	200.1% (13)
17-5019-**-**-**	Contract Services Misc.	96,312		96,312	122,233	(25,921)	126.9% (4)
17-5021-**-**-**	Small Vehicle Expense	7,000		7,000	14,080	(7,080)	201.1%
17-5022-**-**-**	Miscellaneous Expense	5,004		5,004	1,327	3,677	26.5%
17-5023-**-**-**	Office Supplies - All	13,004		13,004	9,263	3,741	71.2%
17-5024-**-**-**	Petroleum Products	20,004		20,004	10,073	9,931	50.4%
17-5025-**-**-**	Uniforms	28,000		28,000	32,123	(4,123)	114.7%
17-5026-**-**-**	Small Vehicle Fuel	9,004		9,004	8,246	758	91.6%
17-5027-**-**-**	Insurance - Property/Liability	135,628	40,000	175,628	169,102	6,526	96.3% (5)
17-5028-**-**-**	Small Tools & Supplies	30,000		30,000	30,407	(407)	101.4%
17-5030-**-**-**	Trash Disposal	2,504		2,504	1,922	582	76.8%
17-5031-**-**-**	Safety Supplies	41,248		41,248	31,216	10,032	75.7%
17-5032-**-**-**	Equipment Rental	3,004		3,004	20,421	(17,417)	679.8% (6)
17-5033-**-**-**	Recruitment	728		728	2,000	(1,272)	274.7%
17-5034-**-**-**	Travel Expense/Tech. Conferences	8,996		8,996	1,834	7,162	20.4%
17-5035-**-**-**	Training Expense	15,480		15,480	10,716	4,764	69.2%
17-5036-**-**-**	Laboratory Supplies	24,392		24,392	21,409	2,983	87.8%
17-5037-**-**-**	Office Equipment	9,996		9,996	7,737	2,259	77.4%
17-5038-**-**-**	Permits	10,612		10,612	27,744	(17,132)	261.4% (7)
17-5039-**-**-**	Membership Dues/Fees	7,892		7,892	10,243	(2,351)	129.8%
17-5049-**-**-**	Biosolids Disposal	850,000		850,000	876,857	(26,857)	103.2% (4)
17-5050-**-**-**	Contract Services Generators - 29A	13,004		13,004	4,145	8,859	31.9%
17-5052-**-**-**	Janitorial Services	42,000		42,000	28,224	13,776	67.2%
17-5054-**-**-**	Diesel Truck Maint	19,000		19,000	19,341	(341)	101.8%
17-5055-**-**-**	Diesel Truck Fuel	8,000		8,000	8,138	(138)	101.7%
17-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	211,000		211,000	184,216	26,784	87.3%
17-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	242,000		242,000	230,760	11,240	95.4%
17-5058-**-**-**	Maintenance Equip. & Facilities (Common)	36,000		36,000	32,351	3,649	89.9%
17-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	461,876		461,876	520,060	(58,184)	112.6% (14)
17-5060-**-**-**	Maintenance Equip. & Facilities (AWT) 41-E	50,000		50,000	31,564	18,436	63.1%
17-5061-**-**-**	Mileage	1,004		1,004	868	136	86.4%
17-5068-**-**-**	MNWD Potable Water Supplies & Svcs.	28,000		28,000	40,151	(12,151)	143.4% (10)
17-5074-**-**-**	Education Reimbursement	1,996		1,996	551	1,445	27.6%
17-5076-**-**-**	SCADA Infrastructure	28,684		28,684	27,137	1,547	94.6%
17-5077-**-**-**	IT Direct	2,624		2,624	37	2,587	1.4%
17-5105-**-**-**	Co-Generation Power Credit - Offset	685,992		685,992	1,061,264	(375,272)	154.7% (9)
17-5303-**-**-**	Group Insurance Waiver	7,196		7,196	7,089	107	98.5%
17-5705-**-**-**	Monthly Car Allowance	8,396		8,396	9,240	(844)	110.1%
17-6500-**-**-**	IT Allocations in to PC's & Depts.	216,520		216,520	186,925	29,595	86.3%
	Total Other Expenses	4,655,964	105,000	4,760,964	4,950,331	(189,367)	104.0%
	Total Expenses	7,384,816	105,000	7,489,816	7,476,335	13,481	99.8%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended June 30, 2022
(in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
21 - Effluent Transmission Main								
Salary and Fringe								
21-5000-**-**-**	Regular Salaries-O&M	1,088		1,088	286	802	26.3%	
21-5001-**-**-**	Overtime Salaries-O&M	-		-	-	-	-	
21-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	564		564	162	402	28.8%	
	Total Payroll Costs	1,652	-	1,652	448	1,204	27.1%	
Other Expenses								
21-5019-**-**-**	Contract Services Misc.	18,336		18,336	-	18,336	-	
21-5027-**-**-**	Insurance - Property/Liability	-		-	10	(10)	-	(5)
	Total Other Expenses	18,336	-	18,336	10	18,326	0.1%	
	Total Expenses	19,988	-	19,988	458	19,530	2.3%	
23 - North Coast Interceptor								
Other Expenses								
23-5017-**-**-**	Legal Fees	-	7,070	7,070	7,063	7	99.9%	
	Total Expenses	-	7,070	7,070	7,063	7	99.9%	
24 - Aliso Creek Ocean Outfall								
Salary and Fringe								
24-5000-**-**-**	Regular Salaries-O&M	149,296		149,296	109,303	39,993	73.2%	
24-5001-**-**-**	Overtime Salaries-O&M	620		620	1,178	(558)	189.9%	
24-5306-**-**-**	Scheduled Holiday Work	264		264	350	(86)	132.4%	
24-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	77,364		77,364	62,062	15,302	80.2%	
	Total Payroll Costs	227,544	-	227,544	172,892	54,652	76.0%	
Other Expenses								
24-5015-**-**-**	Management Support Services	212,496		212,496	25,298	187,198	11.9%	
24-5017-**-**-**	Legal Fees	2,008		2,008	-	2,008	-	
24-5027-**-**-**	Insurance - Property/Liability	8,704		8,704	12,308	(3,604)	141.4%	(5)
24-5031-**-**-**	Safety Supplies	1,044		1,044	-	1,044	-	
24-5033-**-**-**	Recruitment	556		556	-	556	-	
24-5034-**-**-**	Travel Expense/Tech. Conferences	1,512		1,512	1,971	(459)	130.3%	
24-5035-**-**-**	Training Expense	1,956		1,956	720	1,236	36.8%	
24-5036-**-**-**	Laboratory Supplies	30,004		30,004	30,046	(42)	100.1%	
24-5038-**-**-**	Permits	216,924		216,924	223,079	(6,155)	102.8%	(7)
24-5039-**-**-**	Membership Dues/Fees	220		220	225	(5)	102.3%	
24-5044-**-**-**	Offshore Monitoring	75,504		75,504	46,762	28,742	61.9%	
24-5045-**-**-**	Offshore Biochemistry - 20B	11,512		11,512	-	11,512	-	
24-5046-**-**-**	Effluent Chemistry	35,000		35,000	15,613	19,388	44.6%	
24-5058-**-**-**	Maintenance Equip. & Facilities (Common) 41-C	1,004		1,004	-	1,004	-	
24-6500-**-**-**	IT Allocations in to PC's & Depts.	18,796		18,796	16,235	2,561	86.4%	
	Total Other Expenses	617,240	-	617,240	372,256	244,984	60.3%	
	Total Expenses	844,784	-	844,784	545,149	299,635	64.5%	
Total O&M Expenses		18,522,124	597,070	19,119,194	18,161,705	957,489	95.0%	

- * 02/03/2022 Board approved budget amendment for PC 12-Water Reclamation Management Support Services, \$45,000, for Support Services Salt & Nutrient Management Plan.
- * 02/03/2022 Board approved budget amendment for PC 2- \$5,000, PC 15- \$5,000, PC 17- \$5,000 Management Support Services, total \$15,000 for CASA Climate Change Program.
- * 02/14/2022 PC 23 Committee approved budget amendment for PC 23 - \$7,070, for work performed on the Intertie Project.
- * 05/19/2022 Board approved budget amendment for PC 2 - \$430,000 and PC 17 - \$100,000, due to expense inflationary increase.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended June 30, 2022

- (1) Increased costs due to construction support at JBL.
- (2) Increased solids from upstream treatment plants to JBL impacted operational costs.
- (3) Increased grit maintenance due to digester cleaning process and upstream treatment plant to JBL.
- (4) Costs were elevated due to contract increases.
- (5) Property Liability insurance rate increased due to insurers' increases in California.
- (6) Rental usage increased due to supply chain interruptions delaying SOCWA's equipment repairs.
- (7) Increased permit fees reported to the Board November 2021.
- (8) Increased costs due to the Coastal Fire.
- (9) Increased power costs due to changes in utility demand charges.
- (10) Annual laboratory proficiency testing costs for potable water certification and increased costs of consumables.
- (11) Soils from the May and June sludge lines leaks were dried and disposed of as Biosolids.
- (12) Additional natural gas was used to run the cogeneration system at RTP during warranty repairs on the digester gas cleaning system.

Exhibit E-2

**South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering**

For the Period Ended June 30, 2022

(in dollars)

		FY 2021-22 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	175,927	167,229	8,699	95.1%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	91,154	94,953	(3,798)	104.2%
	Total Payroll Costs	267,081	262,181	4,900	98.2%
Other Expenses					
01-5022-03-00-00	Miscellaneous Expense	3,184	1,127	2,057	35.4%
01-5023-03-00-00	Office Supplies - All	208	-	208	-
01-5031-03-00-00	Safety Supplies	306	-	306	-
01-5034-03-00-00	Travel Expense/Tech. Conferences	6,439	-	6,439	-
01-5035-03-00-00	Training Expense	2,244	-	2,244	-
01-5037-03-00-00	Office Equipment	408	-	408	-
01-5039-03-00-00	Membership Dues/Fees	1,377	1,223	154	88.8%
01-5061-03-00-00	Mileage	510	137	373	26.8%
01-5309-03-00-00	Operating Leases	9,300	28,681	(19,381)	308.4% (1)
01-5705-03-00-00	Monthly Car Allowance	4,200	2,294	1,906	54.6%
01-5802-03-00-00	Shipping/Freight	312	-	312	-
01-6500-03-00-00	IT Allocations in to PC's & Depts.	54,293	47,328	6,965	87.2%
	Total Other Expenses	82,781	80,790	1,991	97.6%
Total Engineering Expenses		349,863	342,971	6,892	98.0%

(1) Reclassification

South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration

For the Period Ended June 30, 2022

(in dollars)

		FY 2021-22 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-6000-04-00-00	Regular Salaries-Admin or IT	998,424	923,711	74,713	92.5%
01-6001-04-00-00	Overtime Salaries-Admin or IT	10,000	28,565	(18,565)	285.7% (1)
01-6315-04-00-00	Comp Time - Admin	5,000	6,252	(1,252)	125.0%
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	517,316	524,484	(7,168)	101.4%
	Total Payroll Costs	1,530,740	1,483,013	47,727	96.9%
Other Expenses					
01-6018-04-00-00	Public Notices/Public Relations	3,270	-	3,270	-
01-6101-04-00-00	HR Recruitment & Employee Relations	24,350	23,042	1,308	94.6%
01-6102-04-00-00	Subscriptions	2,081	2,528	(447)	121.5%
01-6103-04-00-00	Contract Labor	50,000	24,512	25,488	49.0%
01-6200-04-00-00	Management Support Services	90,000	32,691	57,309	36.3%
01-6201-04-00-00	Audit	46,000	45,000	1,000	97.8%
01-6202-04-00-00	Legal	220,000	266,611	(46,611)	121.2%
01-6204-04-00-00	Postage	1,500	1,460	40	97.4%
01-6223-04-00-00	Office Supplies - Admin	4,500	3,113	1,387	69.2%
01-6224-04-00-00	Office Equipment Admin or IT	1,200	5,101	(3,901)	425.1% (2)
01-6234-04-00-00	Memberships & Trainings	88,000	98,047	(10,047)	111.4% (3)
01-6239-04-00-00	Travel & Conference	11,000	11,482	(482)	104.4%
01-6241-04-00-00	Education Reimbursement	1,500	2,651	(1,151)	176.8%
01-6310-04-00-00	Miscellaneous	18,000	22,786	(4,786)	126.6%
01-6311-04-00-00	Mileage	1,236	148	1,087	12.0%
01-6317-04-00-00	Contract Services Misc	5,722	5,646	76	98.7%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	125,761	108,574	17,187	86.3%
01-6601-04-00-00	Shipping/Freight	3,815	3,822	(7)	100.2%
01-6705-04-00-00	Monthly Car Allowance	12,000	12,046	(46)	100.4%
	Total Other Expenses	709,934	669,260	40,675	94.3%
Total Admin Expenses		2,240,674	2,152,273	88,402	96.1%

(1) Additional information requests and meeting schedules impacted the need for overtime work.

(2) Planned purchase of ergonomic chairs.

(3) Increased membership fees for WEROC, NACWA, and CASA.

South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
For the Period Ended June 30, 2022
(in dollars)

		FY 2021-22 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	100,076	103,017	(2,941)	102.9%
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	51,852	58,493	(6,641)	112.8%
	Total Salary & Fringe	151,928	161,510	(9,582)	106.3%
Other Expenses					
01-6028-05-00-00	Small Tools & Supplies	1,000	200	800	20.0%
01-6035-05-00-00	Training Expense	3,000	1,725	1,275	57.5%
01-6224-05-00-00	Office Equipment Admin or IT	600	634	(34)	-
01-6234-05-00-00	Memberships & Trainings	2,750	-	2,750	-
01-6239-05-00-00	Travel & Conference	1,500	-	1,500	-
01-6300-05-00-00	Software Maintenance Agreements	41,026	27,624	13,402	67.3%
01-6301-05-00-00	Hardware Maintenance Agreements	14,726	10,036	4,690	68.2%
01-6302-05-00-00	Cloud Subscriptions (Internet)	177,328	176,080	1,248	99.3%
01-6303-05-00-00	Telecommunications	165,582	148,781	16,801	89.9%
01-6305-05-00-00	IT Professional Services	92,400	48,237	44,163	52.2%
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	40,985	12,308	28,677	30.0%
01-6307-05-00-00	Small Software Purchases & Licenses (<\$5k)	28,968	23,907	5,061	82.5%
01-6308-05-00-00	IT Memberships	160	-	160	-
01-6309-05-00-00	Operating Leases	64,173	68,611	(4,438)	106.9%
01-6310-05-00-00	Miscellaneous	5,000	187	4,813	3.7%
01-6312-05-00-00	Computer & Photocopy Supplies	-	3,167	(3,167)	-
	Total Other Expenses	639,198	521,498	117,700	81.6%
Total Expenses before Allocation		791,126	683,007	108,119	86.3%
IT Allocations (Out) to PC's & Depts					
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(791,126)	(683,007)	(108,119)	86.3%
	Total IT Allocations (Out) to PC's & Depts	(791,126)	(683,007)	(108,119)	86.3%

**South Orange County Wastewater Authority
FY 2021-22 Comparative Actual Fringe Pool and Rate**

						UAL & OPEB Not Included	
	FY 2015-16 Actual	FY 2016-17 Actual	FY 2017-18 Actual	FY 2018-19 Actual	FY 2019-20 Actual	FY 2020-21 Actual	FY 2021-22 Actual
457 Plan - Employer Contribution	\$13,821	\$83,925	\$75,524	\$64,550	\$74,097	\$72,639	\$76,797
Accrued Administrative Leave	34,879	30,478	23,929	26,567	47,949	33,434	36,582
Accrued Holiday	221,783	220,371	234,247	244,674	251,092	262,771	262,937
Accrued Personal Leave	74,238	76,638	83,205	87,369	97,085	81,137	97,394
COVID 19 Federal Leave						44,236	1,533
COVID 19 State Leave						15,910	37,815
Accrued Sick Pay	242,262	262,987	204,767	274,389	233,159	289,940	273,286
Accrued Vacation	372,526	416,343	345,815	419,442	383,841	382,525	416,472
Bereavement Pay	1,345	8,088	10,892	10,820	9,043	12,149	12,901
Jury Duty			5,817	3,149	5,156	1,005	5,054
Disability Insurance - Private	51,728	56,122	57,924	56,713	61,659	61,468	62,325
Group Medical Insurance	948,341	1,017,679	864,239	918,687	902,394	959,986	1,024,258
Medicare Tax - Employer	94,167	94,550	96,326	100,314	104,441	104,289	96,485
Retiree Health Savings Program (RHS)			17,800	29,600	39,600	48,000	55,000
Retiree Health PARS Investment	500,000	504,000	210,000				
¹ Retiree Health Benefits	281,389	384,936	354,582	423,438	456,943		
Retirement - PERS Normal Costs	517,823	500,175	504,975	570,071	584,043	640,736	636,896
¹ Retirement - PERS Unfunded Liability	432,628	499,903	599,849	743,843	867,337		
Unemployment Ins./Reimbursement	1,378	1,234		11,608			
Workers Compensation Ins.	76,883	212,990	233,538	159,452	192,000	121,937	182,738
Total Budget Fringe Benefits Pool	\$3,865,192	\$4,370,418	\$3,923,431	\$4,144,686	\$4,309,837	\$3,132,163	\$3,278,473
Change in Fringe Pool		13.1%	-10.2%	5.6%	4.0%	-27.3%	4.7%
Pay for Time Worked Labor Base(Regular Salaries)							
O&M including CIP Labor	3,184,417	3,224,868	3,282,424	3,451,281	3,402,166	3,379,203	
Environmental	815,299	789,929	827,189	933,333	955,618	949,369	
Engineering including CIP Labor	305,422	377,076	396,554	397,732	428,407	418,681	
Admin	695,744	857,635	896,766	934,332	899,005	923,711	
IT	44,447	84,015	85,028	92,851	99,833	103,017	
Total Pay for Time Worked Labor Base	4,976,917	5,045,329	5,333,523	5,487,962	5,809,528	5,785,029	5,773,981
Fringe Rate	78%	86.6%	73.6%	75.5%	74.2%	54.1%	56.8%
Change in Labor Base		1.4%	5.7%	2.9%	5.9%	-0.4%	-0.2%

¹UAL and OPEB Annual Expense were removed from the Fringe Pool in FY 2020-21.

Exhibit A

**South Orange County Wastewater Authority
Summary of Disbursements for July 2022
Staff Recommendation of Fiscal Matters**

	<u>Actual</u>
General Fund	\$ (2,119,480)
PC 2 - Jay B. Latham Plant	(1,400,130)
PC 5 - San Juan Creek Ocean Outfall	(107,229)
PC 8 - Pretreatment Program	(12,439)
PC 12 SO - Water Reclamation Permits	(10,824)
PC 15 - Coastal Treatment Plant/AWT	(300,475)
PC 17 - Joint Regional Wastewater Reclamation	(841,768)
PC 21 - Effluent Transmission Main	(28,936)
PC 23 - North Coast Interceptor	-
PC 24 - Aliso Creek Ocean Outfall	(104,467)
Total	<u><u>\$ (4,925,747)</u></u>

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of July 31, 2022**

CASH IN BANK: (BEGINNING BAL.)	\$ 1,713,935
L.A.I.F. FUNDS: (BEGINNING BAL.)	9,114,334
DEPOSITS, TRANSFERS & ADJUSTMENTS:	536,865
FUND REQUIREMENTS:	
BILLS FOR CONSIDERATION ¹	<u>(4,925,747)</u>
TOTAL CASH IN BANK	<u>\$ 6,439,387</u>

¹ GL postings.

In accordance with Government Code 53646(c), since all funds are placed in the State LAIF, staff has included in the Financial Packet, the most current statement from the State LAIF, in lieu of the report required by Government Code 53646(b)(1).

In accordance with requirements of the Government Code and the "SOCWA Investment Policy", I hereby certify that:

- 1). All investment actions executed since the last report have been made in full compliance with the Investment Policy.
- 2). SOCWA does not have sufficient funds currently on hand to meet its expenditure obligations for the next six months (see note) due to the fact that SOCWA bills and receives operational funds on a quarterly basis only.

Betty Burnett
General Manager

Note: Operational funds are collected on a quarterly basis at the beginning of the quarter. Capital funds are collected on a quarterly basis in connection with projected needs. Member agencies have pledged to have funds available to meet all obligations.



PMIA/LAIF Performance Report as of 09/07/22



PMIA Average Monthly Effective Yields⁽¹⁾

August	1.276
July	1.090
June	0.861

Quarterly Performance Quarter Ended 06/30/22

LAIF Apportionment Rate ⁽²⁾ :	0.75
LAIF Earnings Ratio ⁽²⁾ :	0.00002057622201151
LAIF Fair Value Factor ⁽¹⁾ :	0.987125414
PMIA Daily ⁽¹⁾ :	0.99%
PMIA Quarter to Date ⁽¹⁾ :	0.69%
PMIA Average Life ⁽¹⁾ :	311

Pooled Money Investment Account Monthly Portfolio Composition ⁽¹⁾ 07/31/22 \$229.9 billion

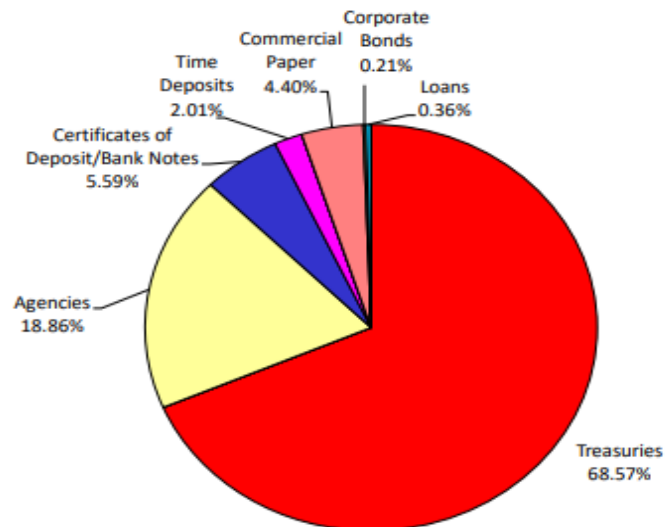


Chart does not include \$4,432,000.00 in mortgages, which equates to 0.002%. Percentages may not total 100% due to rounding.

Daily rates are now available here. [View PMIA Daily Rates](#)

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1) and interest earned on the Wildfire Fund loan pursuant to Public Utility Code 3288 (a).

Exhibit C

**South Orange County Wastewater Authority
Schedule of Cash and Investments
as of July 31, 2022**

MVA	\$ 321,608	(A)
A/P Checking	1,378,532	(B)
Payroll Checking	20,555	(C)
State LAIF	4,718,692	(D)
Total Cash in Bank¹	\$ 6,439,387	
Petty Cash	1,600	(E)
Total Operating Cash	\$ 6,440,987	
OPEB Trust	6,032,199	(F)
Total Cash and Investments	\$ 12,473,186	

¹Bank balance at the end of a month may differ from an accounting closing balance as there may be in-transit items that haven't cleared the bank.

Notes:

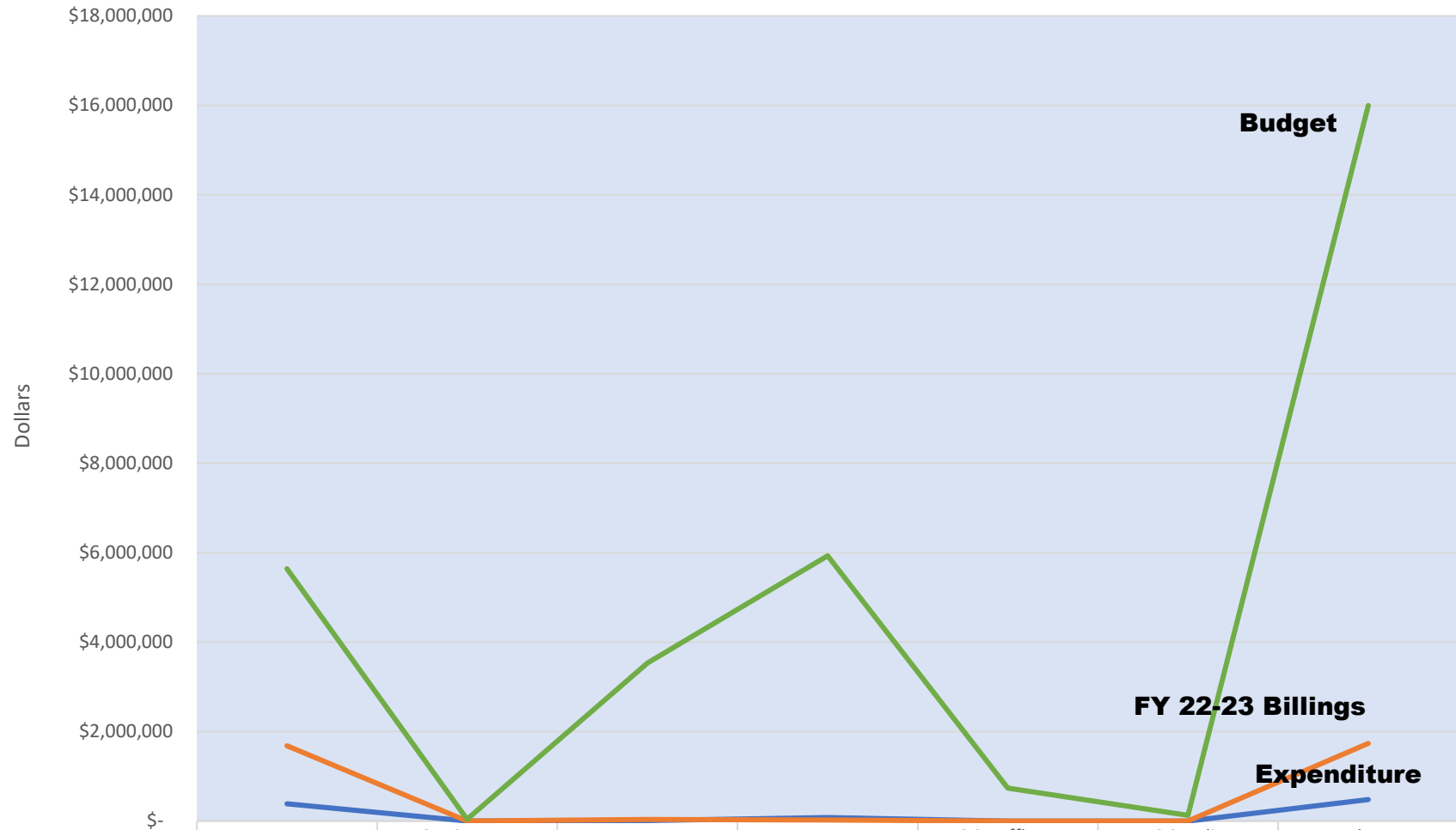
- (A) Interest bearing account; all cash receipts are deposited in this account and later moved to the LAIF account.
- (B) Accounts Payable Checks are drawn against this account; money is transferred to this account, as needed, from the LAIF account.
- (C) Payroll including payroll taxes and related liabilities are drawn against this account; money is transferred into this account, as needed, from the LAIF account.
- (D) California State Local Agency Investment Fund (LAIF) balance.
- (E) Cash on hand with GM's office and held by Chief Operators at each Treatment facility.
- (F) OPEB Trust Fund; these funds can only be used for Retiree Health Benefits.

South Orange County Wastewater Authority
Capital Projects Summaries
For the Period Ended July 31, 2022
(in dollars)

FY 2022-23 Budget vs. Actual Spending								
Description	Capital Budget	Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Open Receivables	% Expended vs. Billed
PC 2-JB Latham	\$ 5,638,569	\$ 387,603	\$ 5,250,966	6.9%	\$ 1,680,405	\$ -	\$ 1,680,405	23.1%
PC 5-San Juan Creek Outfall	39,064	-	39,064	-	-	-	-	-
PC 15-Coastal	3,529,980	10,245	3,519,735	0.3%	32,728	933	31,795	31.3%
PC 17-Regional	5,928,616	80,120	5,848,496	1.4%	22,099	2,497	19,602	362.5%
PC 21 Effluent Transmission	732,810	455	732,355	0.1%	-	-	-	-
PC 24 Aliso Creek Outfall	127,065	682	126,383	0.0%	-	-	-	-
Total Large Capital	\$ 15,996,104	\$ 479,105	\$ 15,516,999	3.0%	\$ 1,735,232	\$ 3,430	\$ 1,731,802	27.6%
Non-Capital Engineering	217,326	-	217,326	0.0%	18,750	1,986	16,764	0.0%
Non-Capital Misc Engineering	17,500	-	17,500	0.0%	-	-	-	0.0%
Small Internal Capital	2,061,000	153,392	1,907,608	7.4%	515,250	20,975	494,275	29.8%
Total Capital	\$ 18,291,930	\$ 632,497	\$ 17,659,433	3.5%	\$ 2,269,232	\$ 26,391	\$ 2,242,841	27.9%

Large Capital Projects Fiscal Year '22-23 Budget vs. Year-to-Date Expenditures & Billings as of 7/31/2022

Exhibit D-1



	PC 2-JB Latham	PC 5-San Juan Creek Outfall	PC 15-Coastal	PC 17-Regional	PC 21 Effluent Transmission	PC 24 Aliso Creek Outfall	Total Large Capital
Spent - YTD 7/31/22	\$387,603	-	\$10,245	\$80,120	\$454.92	682.38	\$479,105
FY 22-23 Billings	\$1,680,405	-	\$32,728	\$22,099	-	-	\$1,735,232
Capital Budget 22-23	\$5,638,569	39,064.00	\$3,529,980	\$5,928,616	\$732,810	\$127,065	\$15,996,104

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended July 31, 2022
(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
5000-*	Regular Salaries-O&M	4,931,084	343,152	4,587,932	7.0%
5001-*	Overtime Salaries-O&M	73,524	8,952	64,572	12.2%
5306-*	Scheduled Holiday Work	86,468	8,806	77,662	10.2%
5315-*	Comp Time - O&M	16,920	882	16,038	5.2%
5401-*	Fringe Benefits IN to PC's & Depts.	2,572,272	179,004	2,393,268	7.0%
5700-*	Standby Pay	70,000	5,460	64,540	7.8%
	Total Payroll Costs	7,750,268	546,255	7,204,013	7.0%
Other Expenses					
5002-*	Electricity	1,253,828	60,412	1,193,416	4.8%
5003-*	Natural Gas	268,200	32,001	236,199	11.9%
5004-*	Potable & Reclaimed Water	87,008	3,815	83,193	4.4%
5005-*	Co-generation Power Credit	(1,050,004)	(135,573)	(914,431)	12.9%
5006-*	Chlorine/Sodium Hypochlorite	554,000	75,667	478,333	13.7%
5007-*	Polymer Products	789,548	23,617	765,931	3.0%
5008-*	Ferric Chloride	688,256	65,100	623,156	9.5%
5009-*	Odor Control Chemicals	117,572	12,315	105,257	10.5%
5010-*	Other Chemicals - Misc.	2,004	-	2,004	-
5011-*	Laboratory Services	65,724	2,518	63,206	3.8%
5012-*	Grit Hauling	124,472	11,172	113,300	9.0%
5013-*	Landscaping	219,008	14,645	204,363	6.7%
5015-*	Management Support Services	501,512	1,620	499,892	0.3%
5017-*	Legal Fees	23,688	-	23,688	-
5018-*	Public Notices/ Public Relations	3,732	-	3,732	-
5019-*	Contract Services Misc.	320,996	44,436	276,560	13.8%
5021-*	Small Vehicle Expense	23,104	6,864	16,240	29.7%
5022-*	Miscellaneous Expense	15,988	67	15,921	0.4%
5023-*	Office Supplies - All	46,008	2,950	43,058	6.4%
5024-*	Petroleum Products	34,000	-	34,000	-
5025-*	Uniforms	71,004	7,541	63,463	10.6%
5026-*	Small Vehicle Fuel	22,764	262	22,502	1.2%
5027-*	Insurance - Property/Liability	491,248	283,846	207,402	57.8%
5028-*	Small Tools & Supplies	80,600	8,500	72,100	10.5%
5030-*	Trash Disposal	8,500	265	8,235	3.1%
5031-*	Safety Program & Supplies	112,712	15,085	97,627	13.4%
5032-*	Equipment Rental	7,004	861	6,143	12.3%
5033-*	Recruitment	2,316	325	1,991	14.0%
5034-*	Travel Expense/Tech. Conferences	73,736	1,600	72,136	2.2%
5035-*	Training Expense	73,052	5,037	68,015	6.9%
5036-*	Laboratory Supplies	121,144	9,724	111,420	8.0%
5037-*	Office Equipment	25,992	11	25,981	0.0%
5038-*	Permits	593,908	20,632	573,276	3.5%
5039-*	Membership Dues/Fees	25,120	1,104	24,016	4.4%
5044-*	Offshore Monitoring	80,000	5,538	74,462	6.9%
5045-*	Offshore Biochemistry - 20B	30,004	-	30,004	-
5046-*	Effluent Chemistry	44,992	182	44,810	0.4%
5047-*	Access Road Expenses	45,000	-	45,000	-
5048-*	Storm Damage	21,000	-	21,000	-
5049-*	Biosolids Disposal	1,568,996	134,571	1,434,425	8.6%
5050-*	Contract Services Generators - 29A	28,008	4,051	23,957	14.5%
5052-*	Janitorial Services	101,004	7,603	93,401	7.5%
5053-*	Contract Serv - Digester Cleaning - 29E	60,000	-	60,000	-
5054-*	Diesel Truck Maint	41,996	353	41,643	0.8%
5055-*	Diesel Truck Fuel	11,496	430	11,066	3.7%
5056-*	Maintenance Equip. & Facilities (Solids)	361,000	12,278	348,722	3.4%
5057-*	Maintenance Equip. & Facilities (Liquids)	589,996	73,075	516,921	12.4%
5058-*	Maintenance Equip. & Facilities (Common)	90,008	4,604	85,404	5.1%
5059-*	Maintenance Equip. & Facilities (Co-Gen)	715,996	55,055	660,941	7.7%
5060-*	Maintenance Equip. & Facilities (AWT)	88,000	5,748	82,252	6.5%
5061-*	Mileage	3,652	101	3,551	2.8%
5068-*	MNWD Potable Water Supplies & Svcs.	44,000	1,266	42,734	2.9%

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended July 31, 2022
(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
5076--**	SCADA Infrastructure	92,128	-	92,128	-
5077--**	IT Direct	45,004	-	45,004	-
5105--**	Co-Generation Power Credit - Offset	1,050,000	135,573	914,427	12.9%
5303--**	Group Insurance Waiver	18,000	1,454	16,546	8.1%
5305--**	Medicare Tax Payments for Employees	2,388	168	2,220	7.0%
5309--**	Operating Leases	28,004	2,280	25,724	8.1%
5705--**	Monthly Car Allowance	35,400	2,536	32,864	7.2%
5799--**	Zephyr Wall Costs Share-O&M	(14,000)	-	(14,000)	-
6500--**	IT Allocations in to PC's & Depts.	609,236	39,885	569,351	6.5%
	Total Other Expenses	11,589,052	1,063,167	10,525,885	9.2%
	Total O&M Expenses	19,339,320	1,609,423	17,729,897	8.3%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended July 31, 2022
(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
02 - Jay B. Latham Plant					
Salary and Fringe					
02-5000-**-**-**	Regular Salaries-O&M	1,699,352	130,450	1,568,902	7.7%
02-5001-**-**-**	Overtime Salaries-O&M	27,144	4,194	22,950	15.4%
02-5306-**-**-**	Scheduled Holiday Work	37,836	3,617	34,219	9.6%
02-5315-**-**-**	Comp Time - O&M	8,056	186	7,870	2.3%
02-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	886,460	68,049	818,411	7.7%
02-5700-**-**-**	Standby Pay	26,000	2,113	23,888	8.1%
	Total Payroll Costs	2,684,848	208,607	2,476,241	7.8%
Other Expenses					
02-5002-**-**-**	Electricity	534,828	24,940	509,888	4.7%
02-5003-**-**-**	Natural Gas	165,128	18,277	146,851	11.1%
02-5004-**-**-**	Potable & Reclaimed Water	26,004	516	25,488	2.0%
02-5006-**-**-**	Chlorine/Sodium Hypochlorite	9,000	4,568	4,432	50.8%
02-5007-**-**-**	Polymer Products	319,544	12,254	307,290	3.8%
02-5008-**-**-**	Ferric Chloride	255,252	21,313	233,939	8.3%
02-5009-**-**-**	Odor Control Chemicals	23,568	3,255	20,313	13.8%
02-5010-**-**-**	Other Chemicals - Misc.	1,000	-	1,000	-
02-5011-**-**-**	Laboratory Services	19,712	586	19,126	3.0%
02-5012-**-**-**	Grit Hauling	59,468	7,459	52,009	12.5%
02-5013-**-**-**	Landscaping	77,004	4,882	72,122	6.3%
02-5015-**-**-**	Management Support Services	30,008	1,620	28,388	5.4%
02-5017-**-**-**	Legal Fees	4,996	-	4,996	-
02-5019-**-**-**	Contract Services Misc.	82,000	15,042	66,958	18.3%
02-5021-**-**-**	Small Vehicle Expense	11,000	4,187	6,813	38.1%
02-5022-**-**-**	Miscellaneous Expense	8,000	3	7,997	0.0%
02-5023-**-**-**	Office Supplies - All	29,000	1,599	27,401	5.5%
02-5024-**-**-**	Petroleum Products	11,000	-	11,000	-
02-5025-**-**-**	Uniforms	34,008	2,878	31,130	8.5%
02-5026-**-**-**	Small Vehicle Fuel	10,004	-	10,004	0.0%
02-5027-**-**-**	Insurance - Property/Liability	167,039	96,516	70,523	57.8%
02-5028-**-**-**	Small Tools & Supplies	38,000	1,741	36,259	4.6%
02-5030-**-**-**	Trash Disposal	3,000	9	2,991	0.3%
02-5031-**-**-**	Safety Program & Supplies	39,248	5,855	33,393	14.9%
02-5032-**-**-**	Equipment Rental	3,000	-	3,000	-
02-5033-**-**-**	Recruitment	1,000	-	1,000	-
02-5034-**-**-**	Travel Expense/Tech. Conferences	20,596	248	20,348	1.2%
02-5035-**-**-**	Training Expense	25,352	1,557	23,795	6.1%
02-5036-**-**-**	Laboratory Supplies	21,000	1,206	19,794	5.7%
02-5037-**-**-**	Office Equipment	13,000	11	12,989	0.1%
02-5038-**-**-**	Permits	26,500	19,800	6,700	74.7%
02-5039-**-**-**	Membership Dues/Fees	5,808	133	5,675	2.3%
02-5049-**-**-**	Biosolids Disposal	687,000	45,745	641,255	6.7%
02-5050-**-**-**	Contract Services Generators - 29A	10,004	-	10,004	-
02-5052-**-**-**	Janitorial Services	47,000	4,592	42,408	9.8%
02-5053-**-**-**	Contract Serv - Digester Cleaning - 29E	60,000	-	60,000	-
02-5054-**-**-**	Diesel Truck Maint	21,996	177	21,819	0.8%
02-5055-**-**-**	Diesel Truck Fuel	2,996	215	2,781	7.2%
02-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	150,000	7,523	142,477	5.0%
02-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	230,000	34,894	195,106	15.2%
02-5058-**-**-**	Maintenance Equip. & Facilities (Common)	29,000	2,116	26,884	7.3%
02-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	277,000	5,463	271,537	2.0%
02-5061-**-**-**	Mileage	2,148	-	2,148	-
02-5076-**-**-**	SCADA Infrastructure	27,832	-	27,832	-
02-5077-**-**-**	IT Direct	15,004	-	15,004	-
02-5303-**-**-**	Group Insurance Waiver	7,204	582	6,622	8.1%
02-5309-**-**-**	Operating Leases	22,000	2,280	19,720	10.4%
02-5705-**-**-**	Monthly Car Allowance	22,800	1,518	21,282	6.7%
02-5799-**-**-**	Zephyr Wall Costs Share-O&M	(14,000)	-	(14,000)	-
02-6500-**-**-**	IT Allocations in to PC's & Depts.	211,980	13,878	198,102	6.5%
	Total Other Expenses	3,884,031	369,437	3,514,594	9.5%
	Total Expenses	6,568,879	578,044	5,990,835	8.8%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended July 31, 2022
(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
05 - San Juan Creek Ocean Outfall					
Salary and Fringe					
05-5000-**-***	Regular Salaries-O&M	108,564	10,998	97,566	10.1%
05-5001-**-***	Overtime Salaries-O&M	72	12	60	17.1%
05-5036-**-***	Scheduled Holiday Work	440	44	396	9.9%
05-5401-**-***	Fringe Benefits IN to PC's & Depts.	56,628	5,737	50,891	10.1%
	Total Payroll Costs	165,704	16,790	148,914	10.1%
Other Expenses					
05-5015-**-***	Management Support Services	125,004	-	125,004	-
05-5017-**-***	Legal Fees	2,008	-	2,008	-
05-5026-**-***	Small Vehicle Fuel	500	-	500	-
05-5027-**-***	Insurance - Property/Liability	18,420	10,643	7,777	57.8%
05-5031-**-***	Safety Supplies	1,004	-	1,004	-
05-5034-**-***	Travel Expense/Tech. Conferences	5,592	427	5,165	7.6%
05-5035-**-***	Training Expense	2,500	-	2,500	-
05-5036-**-***	Laboratory Supplies	35,000	1,163	33,837	3.3%
05-5038-**-***	Permits	275,000	-	275,000	-
05-5039-**-***	Membership Dues/Fees	2,000	-	2,000	-
05-5044-**-***	Offshore Monitoring	40,000	2,769	37,231	6.9%
05-5045-**-***	Offshore Biochemistry - 20B	15,004	-	15,004	-
05-5046-**-***	Effluent Chemistry	22,496	176	22,320	0.8%
05-5058-**-***	Maintenance Equip. & Facilities (Common)	1,004	-	1,004	-
05-6500-**-***	IT Allocations in to PC's & Depts.	13,148	861	12,287	6.5%
	Total Other Expenses	558,680	16,040	542,640	2.9%
	Total Expenses	724,384	32,830	691,554	4.5%
08 - Pre Treatment					
Salary and Fringe					
08-5000-**-***	Regular Salaries-O&M	116,396	8,268	108,128	7.1%
08-5401-**-***	Fringe Benefits IN to PC's & Depts.	60,716	4,313	56,403	7.1%
	Total Payroll Costs	177,112	12,581	164,531	7.1%
Other Expenses					
08-5011-**-***	Laboratory Services	3,004	1,440	1,564	47.9%
08-5015-**-***	Management Support Services	20,004	-	20,004	-
08-5017-**-***	Legal Fees	2,672	-	2,672	-
08-5018-**-***	Public Notices/ Public Relations	3,732	-	3,732	-
08-5021-**-***	Small Vehicle Expense - 31A	1,100	-	1,100	-
08-5022-**-***	Miscellaneous Expense	1,984	-	1,984	-
08-5026-**-***	Small Vehicle Fuel - 37A	1,256	-	1,256	-
08-5027-**-***	Insurance - Property/Liability	6,141	3,548	2,593	57.8%
08-5028-**-***	Small Tools & Supplies	3,600	-	3,600	-
08-5034-**-***	Travel Expense/Tech. Conferences	3,496	-	3,496	-
08-5035-**-***	Training Expense	2,000	-	2,000	-
08-5038-**-***	Permits and Fines	504	-	504	-
08-5039-**-***	Membership Dues/Fees	796	-	796	-
08-6500-**-***	IT Allocations in to PC's & Depts.	14,092	923	13,169	6.5%
	Total Other Expenses	64,381	5,911	58,470	9.2%
	Total Expenses	241,493	18,492	223,001	7.7%
12 - Water Reclamation Permits					
Salary and Fringe					
12-5000-**-***	Regular Salaries-O&M	88,952	73	88,879	0.1%
12-5401-**-***	Fringe Benefits IN to PC's & Depts.	46,400	38	46,362	0.1%
	Total Payroll Costs	135,352	111	135,241	0.1%
Other Expenses					
12-5015-**-***	Management Support Services	164,996	-	164,996	-
12-5017-**-***	Legal Fees	2,000	-	2,000	-
12-5027-**-***	Insurance - Property/Liability	8,884	5,133	3,751	57.8%
12-5034-**-***	Travel Expense/Tech. Conferences	4,796	-	4,796	-
12-5038-**-***	Permits	22,508	-	22,508	-
12-5039-**-***	Membership Dues/Fees	68	-	68	-
12-6500-**-***	IT Allocations in to PC's & Depts.	10,764	705	10,059	6.5%
	Total Other Expenses	214,016	5,838	208,178	2.7%
	Total Expenses	349,368	5,949	343,419	1.7%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended July 31, 2022
(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
15 - Coastal Treatment Plant					
Salary and Fringe					
15-5000-**-***	Regular Salaries-O&M	954,888	58,635	896,253	6.1%
15-5001-**-***	Overtime Salaries-O&M	11,216	1,229	9,987	11.0%
15-5306-**-***	Scheduled Holiday Work	15,672	1,165	14,507	7.4%
15-5315-**-***	Comp Time - O&M	1,996	471	1,525	23.6%
15-5401-**-***	Fringe Benefits IN to PC's & Depts.	498,120	30,587	467,533	6.1%
15-5700-**-***	Standby Pay	17,000	683	16,318	4.0%
	Total Payroll Costs	1,498,892	92,769	1,406,123	6.2%
Other Expenses					
15-5002-**-***	Electricity	235,000	19,514	215,486	8.3%
15-5003-**-***	Natural Gas	3,000	43	2,957	1.4%
15-5004-**-***	Potable & Reclaimed Water	25,004	779	24,225	3.1%
15-5006-**-***	Chlorine/Sodium Hypochlorite	90,000	14,265	75,735	15.8%
15-5007-**-***	Polymer Products	1,000	-	1,000	-
15-5008-**-***	Ferric Chloride	70,000	6,516	63,484	9.3%
15-5009-**-***	Odor Control Chemicals	52,004	2,202	49,802	4.2%
15-5011-**-***	Laboratory Services	20,000	76	19,924	0.4%
15-5012-**-***	Grit Hauling	21,004	1,420	19,584	6.8%
15-5013-**-***	Landscaping	57,000	4,882	52,118	8.6%
15-5015-**-***	Management Support Services	11,500	-	11,500	-
15-5017-**-***	Legal Fees	5,000	-	5,000	-
15-5019-**-***	Contract Services Misc.	110,000	14,077	95,923	12.8%
15-5021-**-***	Small Vehicle Expense - 31A	4,004	-	4,004	-
15-5022-**-***	Miscellaneous Expense	1,000	5	995	0.5%
15-5023-**-***	Office Supplies - All	4,004	701	3,303	17.5%
15-5024-**-***	Petroleum Products	3,000	-	3,000	-
15-5025-**-***	Uniforms	9,000	732	8,268	8.1%
15-5026-**-***	Small Vehicle Fuel	2,000	161	1,839	8.1%
15-5027-**-***	Insurance - Property/Liability	72,916	42,131	30,785	57.8%
15-5028-**-***	Small Tools & Supplies	9,000	3,985	5,015	44.3%
15-5030-**-***	Trash Disposal	2,996	155	2,841	5.2%
15-5031-**-***	Safety Supplies	32,804	2,923	29,881	8.9%
15-5032-**-***	Equipment Rental	1,000	-	1,000	-
15-5033-**-***	Recruitment	312	-	312	-
15-5034-**-***	Travel Expense/Tech. Conferences	13,072	248	12,824	1.9%
15-5035-**-***	Training Expense	17,148	1,557	15,591	9.1%
15-5036-**-***	Laboratory Supplies	14,000	2,023	11,977	14.4%
15-5037-**-***	Office Equipment	2,996	-	2,996	-
15-5038-**-***	Permits	6,996	371	6,626	5.3%
15-5039-**-***	Membership Dues/Fees	4,800	37	4,763	0.8%
15-5047-**-***	Access Road Expenses	45,000	-	45,000	-
15-5048-**-***	Storm Damage	21,000	-	21,000	-
15-5050-**-***	Contract Services Generators	5,000	4,051	949	81.0%
15-5052-**-***	Janitorial Services	12,004	933	11,071	7.8%
15-5054-**-***	Diesel Truck Maint - 31B	1,000	-	1,000	-
15-5055-**-***	Diesel Truck Fuel - 37B	500	-	500	-
15-5057-**-***	Maintenance Equip. & Facilities (Liquids)	144,996	13,135	131,861	9.1%
15-5058-**-***	Maintenance Equip. & Facilities (Common)	23,000	147	22,853	0.6%
15-5060-**-***	Maintenance Equip. & Facilities (AWT)	38,000	767	37,233	2.0%
15-5061-**-***	Mileage	500	-	500	-
15-5076-**-***	SCADA Infrastructure	32,296	-	32,296	-
15-5077-**-***	IT Direct	15,000	-	15,000	-
15-5303-**-***	Group Insurance Waiver	3,600	291	3,309	8.1%
15-5305-**-***	Medicare Tax Payments for Employees	2,240	168	2,072	7.5%
15-5705-**-***	Monthly Car Allowance	4,200	339	3,861	8.1%
15-6500-**-***	IT Allocations in to PC's & Depts.	118,660	7,768	110,892	6.5%
	Total Other Expenses	1,368,556	146,402	1,222,154	10.7%
	Total Expenses	2,867,448	239,170	2,628,278	8.3%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended July 31, 2022
(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
17 - Joint Regional Wastewater Reclamation and Sludge Handling					
Salary and Fringe					
17-5000-**-**	Regular Salaries-O&M	1,844,716	126,311	1,718,405	6.8%
17-5001-**-**	Overtime Salaries-O&M	34,472	3,497	30,975	10.1%
17-5306-**-**	Scheduled Holiday Work	32,244	3,981	28,263	12.3%
17-5315-**-**	Comp Time - O&M	6,868	225	6,643	3.3%
17-5401-**-**	Fringe Benefits IN to PC's & Depts.	962,288	65,890	896,398	6.8%
17-5700-**-**	Standby Pay	27,000	2,665	24,335	9.9%
	Total Payroll Costs	2,907,588	202,569	2,705,019	7.0%
Other Expenses					
17-5002-**-**	Electricity	484,000	15,958	468,042	3.3%
17-5003-**-**	Natural Gas	100,072	13,680	86,392	13.7%
17-5004-**-**	Potable & Reclaimed Water	36,000	2,521	33,479	7.0%
17-5005-**-**	Co-generation Power Credit	(1,050,004)	(135,573)	(914,431)	12.9%
17-5006-**-**	Chlorine/Sodium Hypochlorite	455,000	56,834	398,166	12.5%
17-5007-**-**	Polymer Products	469,004	11,364	457,640	2.4%
17-5008-**-**	Ferric Chloride	363,004	37,271	325,733	10.3%
17-5009-**-**	Odor Control Chemicals	42,000	6,859	35,141	16.3%
17-5010-**-**	Other Chemicals - Misc.	1,004	-	1,004	-
17-5011-**-**	Laboratory Services	23,008	416	22,592	1.8%
17-5012-**-**	Grit Hauling - 21A	44,000	2,294	41,706	5.2%
17-5013-**-**	Landscaping	85,004	4,882	80,122	5.7%
17-5015-**-**	Management Support Services	24,996	-	24,996	-
17-5017-**-**	Legal Fees	5,004	-	5,004	-
17-5019-**-**	Contract Services Misc.	110,000	15,316	94,684	13.9%
17-5021-**-**	Small Vehicle Expense	7,000	2,677	4,323	38.2%
17-5022-**-**	Miscellaneous Expense	5,004	59	4,945	1.2%
17-5023-**-**	Office Supplies - All	13,004	649	12,355	5.0%
17-5024-**-**	Petroleum Products	20,000	-	20,000	-
17-5025-**-**	Uniforms	27,996	3,932	24,064	14.0%
17-5026-**-**	Small Vehicle Fuel	9,004	101	8,903	1.1%
17-5027-**-**	Insurance - Property/Liability	199,964	115,540	84,424	57.8%
17-5028-**-**	Small Tools & Supplies	30,000	2,774	27,226	9.2%
17-5030-**-**	Trash Disposal	2,504	101	2,403	4.0%
17-5031-**-**	Safety Supplies	38,652	6,307	32,345	16.3%
17-5032-**-**	Equipment Rental	3,004	861	2,143	28.6%
17-5033-**-**	Recruitment	1,004	325	679	32.4%
17-5034-**-**	Travel Expense/Tech. Conferences	20,592	248	20,344	1.2%
17-5035-**-**	Training Expense	25,148	1,922	23,226	7.6%
17-5036-**-**	Laboratory Supplies	25,144	4,169	20,975	16.6%
17-5037-**-**	Office Equipment	9,996	-	9,996	-
17-5038-**-**	Permits	15,000	461	14,539	3.1%
17-5039-**-**	Membership Dues/Fees	5,804	935	4,869	16.1%
17-5049-**-**	Biosolids Disposal	881,996	88,826	793,170	10.1%
17-5050-**-**	Contract Services Generators - 29A	13,004	-	13,004	-
17-5052-**-**	Janitorial Services	42,000	2,078	39,922	4.9%
17-5054-**-**	Diesel Truck Maint	19,000	177	18,823	0.9%
17-5055-**-**	Diesel Truck Fuel	8,000	215	7,785	2.7%
17-5056-**-**	Maintenance Equip. & Facilities (Solids)	211,000	4,754	206,246	2.3%
17-5057-**-**	Maintenance Equip. & Facilities (Liquids)	215,000	25,046	189,954	11.6%
17-5058-**-**	Maintenance Equip. & Facilities (Common)	36,000	2,340	33,660	6.5%
17-5059-**-**	Maintenance Equip. & Facilities (Co-Gen)	438,996	49,591	389,405	11.3%
17-5060-**-**	Maintenance Equip. & Facilities (AWT)	50,000	4,981	45,019	10.0%
17-5061-**-**	Mileage	1,004	101	903	10.0%
17-5068-**-**	MNWD Potable Water Supplies & Svcs.	44,000	1,266	42,734	2.9%
17-5076-**-**	SCADA Infrastructure	32,000	-	32,000	-
17-5077-**-**	IT Direct	15,000	-	15,000	-
17-5105-**-**	Co-Generation Power Credit - Offset	1,050,000	135,573	914,427	12.9%
17-5303-**-**	Group Insurance Waiver	7,196	582	6,614	8.1%
17-5305-**-**	Medicare Tax Payments for Employees	148	-	148	-
17-5309-**-**	Operating Leases	6,004	-	6,004	-
17-5705-**-**	Monthly Car Allowance	8,400	678	7,722	8.1%
17-6500-**-**	IT Allocations in to PC's & Depts.	226,420	14,823	211,597	6.5%
	Total Other Expenses	4,956,080	503,913	4,452,167	10.2%
	Total Expenses	7,863,668	706,483	7,157,185	9.0%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended July 31, 2022
(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
21 - Effluent Transmission Main					
Salary and Fringe					
21-5000-**-**-**	Regular Salaries-O&M	1,156	-	1,156	-
21-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	600	-	600	-
	Total Payroll Costs	1,756	-	1,756	0.0%
Other Expenses					
21-5019-**-**-**	Contract Services Misc.	18,996	-	18,996	-
21-5027-**-**-**	Insurance - Property/Liability	-	-	-	-
	Total Other Expenses	18,996	-	18,996	0.0%
	Total Expenses	20,752	-	20,752	0.0%
24 - Aliso Creek Ocean Outfall					
Salary and Fringe					
24-5000-**-**-**	Regular Salaries-O&M	117,060	8,418	108,642	7.2%
24-5001-**-**-**	Overtime Salaries-O&M	620	20	600	3.2%
24-5306-**-**-**	Scheduled Holiday Work	276	-	276	-
24-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	61,060	4,391	56,669	7.2%
	Total Payroll Costs	179,016	12,829	166,187	7.2%
Other Expenses					
24-5015-**-**-**	Management Support Services	125,004	-	125,004	-
24-5017-**-**-**	Legal Fees	2,008	-	2,008	-
24-5027-**-**-**	Insurance - Property/Liability	17,884	10,333	7,551	57.8%
24-5031-**-**-**	Safety Supplies	1,004	-	1,004	-
24-5034-**-**-**	Travel Expense/Tech. Conferences	5,592	427	5,165	7.6%
24-5035-**-**-**	Training Expense	904	-	904	-
24-5036-**-**-**	Laboratory Supplies	26,000	1,163	24,837	4.5%
24-5038-**-**-**	Permits	247,400	-	247,400	-
24-5039-**-**-**	Membership Dues/Fees	5,844	-	5,844	-
24-5044-**-**-**	Offshore Monitoring	40,000	2,769	37,231	6.9%
24-5045-**-**-**	Offshore Biochemistry - 20B	15,000	-	15,000	-
24-5046-**-**-**	Effluent Chemistry	22,496	6	22,490	0.0%
24-5058-**-**-**	Maintenance Equip. & Facilities (Common) 41-C	1,004	-	1,004	-
24-6500-**-**-**	IT Allocations in to PC's & Depts.	14,172	928	13,244	6.5%
	Total Other Expenses	524,312	15,627	508,685	3.0%
	Total Expenses	703,328	28,456	674,872	4.0%
Total O&M Expenses		19,339,320	1,609,423	17,729,897	8.3%

- * 02/03/2022 Board approved budget amendment for PC 12-Water Reclamation Management Support Services, \$45,000, for Support Services Salt & Nut
- * 02/03/2022 Board approved budget amendment for PC 2- \$5,000, PC 15- \$5,000, PC 17- \$5,000 Management Support Services, total \$15,000 for CASA
- * 02/14/2022 PC 23 Committee approved budget amendment for PC 23 - \$7,070, for work performed on the Intertie Project.
- * 05/19/2022 Board approved budget amendment for PC 2 - \$430,000 and PC 17 - \$100,000, due to expense inflationary increase.

Exhibit E-2

**South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering**

For the Period Ended July 31, 2022

(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	161,205	9,087	152,118	5.6%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	84,092	4,740	79,352	5.6%
	Total Payroll Costs	245,297	13,828	231,470	5.6%
Other Expenses					
01-5022-03-00-00	Miscellaneous Expense	3,184	38	3,146	1.2%
01-5023-03-00-00	Office Supplies - All	208	-	208	-
01-5031-03-00-00	Safety Supplies	306	-	306	-
01-5034-03-00-00	Travel Expense/Tech. Conferences	6,439	-	6,439	-
01-5035-03-00-00	Training Expense	2,244	-	2,244	-
01-5037-03-00-00	Office Equipment	408	-	408	-
01-5039-03-00-00	Membership Dues/Fees	1,377	-	1,377	-
01-5061-03-00-00	Mileage	510	-	510	-
01-5309-03-00-00	Operating Leases	9,300	-	9,300	-
01-5705-03-00-00	Monthly Car Allowance	4,200	-	4,200	-
01-5802-03-00-00	Shipping/Freight	312	-	312	-
01-6500-03-00-00	IT Allocations in to PC's & Depts.	52,639	3,446	49,192	6.5%
	Total Other Expenses	81,127	3,484	77,642	4.3%
Total Engineering Expenses		326,424	17,312	309,112	5.3%

South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration

For the Period Ended July 31, 2022

(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-6000-04-00-00	Regular Salaries-Admin or IT	974,150	69,224	904,926	7.1%
01-6001-04-00-00	Overtime Salaries-Admin or IT	10,000	2,530	7,470	25.3%
01-6315-04-00-00	Comp Time - Admin	5,000	281	4,719	5.6%
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	508,162	36,110	472,052	7.1%
	Total Payroll Costs	1,497,312	108,145	1,389,167	7.2%
Other Expenses					
01-6018-04-00-00	Public Notices/ Public Relations	3,270	-	3,270	-
01-6101-04-00-00	HR Recruitment & Employee Relations	29,190	519	28,671	1.8%
01-6102-04-00-00	Subscriptions	2,533	102	2,431	4.0%
01-6103-04-00-00	Contract Labor/Temp Labor	30,000	-	30,000	-
01-6200-04-00-00	Management Support Services	50,000	-	50,000	-
01-6201-04-00-00	Audit	46,000	-	46,000	-
01-6202-04-00-00	Legal	200,000	26,448	173,552	13.2%
01-6204-04-00-00	Postage	1,500	326	1,174	21.7%
01-6223-04-00-00	Office Supplies - Admin	4,294	-	4,294	-
01-6224-04-00-00	Office Equipment	6,000	217	5,783	3.6%
01-6234-04-00-00	Memberships & Trainings	95,912	349	95,563	0.4%
01-6239-04-00-00	Travel & Conference	25,000	2,178	22,822	8.7%
01-6241-04-00-00	Education Reimbursement	4,500	-	4,500	-
01-6310-04-00-00	Miscellaneous	20,000	1,669	18,331	8.3%
01-6311-04-00-00	Mileage	569	-	569	-
01-6317-04-00-00	Contract Services Misc	5,573	450	5,123	8.1%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	117,968	7,723	110,245	6.5%
01-6601-04-00-00	Shipping/Freight	4,382	-	4,382	-
01-6705-04-00-00	Monthly Car Allowance	12,000	969	11,031	8.1%
	Total Other Expenses	658,691	40,950	617,741	6.2%
Total Admin Expenses		2,156,003	149,095	2,006,908	6.9%

South Orange County Wastewater Authority

Budget vs. Actual Comparison-IT

For the Period Ended July 31, 2022

(in dollars)

		FY 2022-23 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	106,310	8,357	97,953	7.9%
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	55,456	4,359	51,097	7.9%
	Total Salary & Fringe	161,767	12,716	149,050	7.9%
Other Expenses					
01-6028-05-00-00	Small Tools & Supplies	1,000	-	1,000	-
01-6035-05-00-00	Training Expense	3,000	-	3,000	-
01-6224-05-00-00	Office Equipment	600	-	600	-
01-6234-05-00-00	Memberships & Trainings	12,850	-	12,850	-
01-6239-05-00-00	Travel & Conference	1,500	-	1,500	-
01-6300-05-00-00	Software Maintenance Agreements	60,433	1,500	58,933	2.5%
01-6301-05-00-00	Hardware Maintenance Agreements	14,186	-	14,186	-
01-6302-05-00-00	Cloud Subscriptions (Internet)	181,766	2,821	178,945	1.6%
01-6303-05-00-00	Telecommunications	164,582	27,173	137,409	16.5%
01-6305-05-00-00	IT Professional Services	53,500	553	52,947	1.0%
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	28,900	3,026	25,874	10.5%
01-6307-05-00-00	Small Software Purchases & Licenses(<\$5k)	26,444	51	26,393	0.2%
01-6308-05-00-00	IT Memberships	160	-	160	-
01-6309-05-00-00	Operating Leases	64,173	3,009	61,164	4.7%
01-6310-05-00-00	Miscellaneous	5,000	-	5,000	-
01-6312-05-00-00	Computer & Photocopy Supplies	-	205	(205)	-
	Total Other Expenses	618,094	38,337	579,757	6.2%
Total Expenses before Allocation		779,860	51,054	728,807	6.5%
IT Allocations (Out) to PC's & Depts					
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(779,860)	(51,054)	(728,807)	6.5%
	Total IT Allocations (Out) to PC's & Depts	(779,860)	(51,054)	(728,807)	6.5%

Agenda Item

7.D.

Board of Directors Meeting

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Preliminary Draft Use Audit, O&M only, FY 2021-22 Budget vs Actual including UAL and OPEB Expense Distribution by Member Agencies

Summary/Discussion

Preliminary FY 2021-22 Use Audit for O&M only

Preliminary Use Audit Schedules are attached (PowerPoint Slides) were presented at the September 20, 2022, Finance Committee Meeting.

- O&M Spending and/or Usage Variance is \$474 thousand or 2% under budget. The budget included in the schedules does not include the additional Board Approved expenditures of \$597,070.

Staff requested the Finance Committee to review and comment on the Draft Use Audit, O&M only, results, and review and comment on the Draft UAL and OPEB Distribution Percentages used to allocate the Annual Expense and the Net Liabilities by Project Committees and Member Agencies.

At the October Finance Committee meeting staff will present the full Use Audit including Management Discussion and Analysis, Capital & Non-Capital (Projects closed), Cash Roll Forward Year-End 2021-22 and all standard schedules.

Recommended Action: Information Item.

**SOCWA
Preliminary Use Audit
Fiscal Year 2021-22
& Net Pension Liability by
Member Agency
Finance Committee
September 20, 2022**

FY 2021-22 Preliminary USE AUDIT Summary

Actual Spending and Actual Usage			
O&M			
	FY 2021-22 Budget ¹	FY 2021-22 Actual	(Over)/Under Budget
SOCWA by Member Agency			
City of Laguna Beach	\$2,364,580	\$2,179,567	\$185,013
City of San Clemente	236,448	182,040	54,408
City of San Juan Capistrano	2,048,256	2,138,571	(90,315)
El Toro Water District	972,988	884,248	88,740
Emerald Bay Service District	183,452	154,451	29,001
Irvine Ranch Water District	233,568	166,373	67,195
Moulton Niguel Water District	9,511,328	9,411,942	99,386
Santa Margarita Water District	2,975,156	3,029,218	(54,062)
South Coast Water District	4,220,728	4,127,834	92,894
Trabuco Canyon Water District	24,068	22,534	1,534
Total Member Agency	\$22,770,572	\$22,296,778	\$473,794

Actual Spending, \$22,296,778, is the Authority's Operating Revenue for FY 2021-22 before consolidation with PC 23, North Coast Interceptor (NCI).

Spending was only 2% below the Budget; the Board approved additional expenditures, \$597 thousand, are not included in the above Budget.

Statement of Revenues, Expenses and Changes in Net Position

For the year ended June 30, 2022

	SOCWA	*PC23	Consolidated
	Actual 6/30/2022	Actual 6/30/2022	Actual 6/30/2022
OPERATING REVENUES			
O & M Member Agency Assessments			
City of Laguna Beach	\$2,179,567		\$2,179,567
City of San Clemente	182,040		182,040
City of San Juan Capistrano	2,138,571		2,138,571
El Toro Water District	884,248		884,248
Emerald Bay Service District	154,451		154,451
Irvine Ranch Water District	166,373		166,373
Moulton Niguel Water District	9,411,942		9,411,942
Santa Margarita Water District	3,029,218		3,029,218
South Coast Water District	4,127,834		4,127,834
Trabuco Canyon Water District	22,534		22,534
Total O & M Member Agency Assessments	\$22,296,778		\$22,296,778

***PC 23 Financials are in progress.**

Actual Expenditures by Member Agency Distributed by Member Agency using the Budget Distribution %'s

Actual Spending and Budget Usage			
O&M			
	FY 2021-22 Budget	FY 2021-22 Actual	(Over)/Under Budget
SOCWA by Member Agency			
City of Laguna Beach	\$2,364,580	\$2,315,380	\$49,200
City of San Clemente	236,448	231,528	4,920
City of San Juan Capistrano	2,048,256	2,005,637	42,619
El Toro Water District	972,988	952,743	20,245
Emerald Bay Service District	183,452	179,635	3,817
Irvine Ranch Water District	233,568	228,708	4,860
Moulton Niguel Water District	9,511,328	9,313,423	197,905
Santa Margarita Water District	2,975,156	2,913,251	61,905
South Coast Water District	4,220,728	4,132,906	87,822
Trabuco Canyon Water District	24,068	23,567	501
*Total Member Agency	\$22,770,572	\$22,296,778	\$473,794

The Budget Variance is due to changes in Spending and Usage by Member Agencies. The above distribution by member agency differs from slide #2 because of budgeted usage and slide #2 is actual usage.

Member Agencies Usage Variance

Usage Variance (Used More)/Used Less		
O&M		
FY 2021-22 Budget	FY 2021-22 Actual	(Over)/Under Budget
SOCWA by Member Agency		
City of Laguna Beach	\$135,812	
City of San Clemente	49,488	
City of San Juan Capistrano	(132,934)	
El Toro Water District	68,495	
Emerald Bay Service District	25,184	
Irvine Ranch Water District	62,336	
Moulton Niguel Water District	(98,519)	
Santa Margarita Water District	(115,967)	
South Coast Water District	5,072	
Trabuco Canyon Water District	1,033	
Total Member Agency	\$0	

The City of San Juan Capistrano, Santa Margarita Water District and Moulton Niguel Water District used more services respectively, (\$132,934), (\$115,967) and (\$98,519) and will pay more. The remaining agencies used less services.

Agencies who used more services will be invoiced and a refund is due to Agencies who used less services.

Spending Variance is \$474 thousand under Budget

Spending Variances			Reason
Payroll Costs including fringe benefits	\$569,447	120.2%	Hiring delays and more time off.
Management Support Services	413,813	87.3%	Delayed Environmental work
IT	116,200	24.5%	
Offshore Monitoring	57,787	12.2%	
Access Road Expenses	43,139	9.1%	
Effluent Chemistry	39,808	8.4%	
Laboratory Services	33,605	7.1%	
Training & Conference	32,545	6.9%	
Other Miscellaneous	31,566	6.7%	
Safety Program & Supplies	31,526	6.7%	
Offshore Biochemistry	23,024	4.9%	
Storm Damage	21,000	4.4%	
Janitorial Services	20,278	4.3%	
UAL & OPEB	18,078	3.8%	Health Insurance selection
Small Tools & Supplies	15,426	3.3%	
Contract Serv - Digester Cleaning	13,502	2.8%	
Potable & Reclaimed Water	12,969	2.7%	
Diesel Truck Maint	11,546	2.4%	
Contract Services Generators	11,124	2.3%	
Maintenance	(10,146)	-2.1%	
Grit Hauling	(47,805)	-10.1%	Grit from digester cleaning & upstream treatment plant to JBL
Permits	(55,784)	-11.8%	Increased Permit Fees
Contract Services	(59,081)	-12.5%	Contract cost increases
Electricity	(69,791)	-14.7%	Rate increases
Insurance	(92,365)	-19.5%	Insurers' increases for Property & Liability
Legal	(110,944)	-23.4%	
Biosolids Disposal	(146,875)	-31.0%	Contract cost increases
Natural Gas	(163,067)	-34.4%	Usage during Cogen warranty repairs
Chemicals	(286,731)	-60.5%	Contract cost increases
Total Spending Variance	\$473,794	100.0%	

Net Pension Liability by Member Agency

UAL and OPEB Annual Expense included in Actuals

O&M						
FY 2021-22 Budget	FY 2021-22 Actual	(Over)/Under Budget	% Expended	Bd Approved Method FY 21-22	Bd Approved Method FY 20-21	% Change between 2022 and 2021
\$177,192	\$175,863	\$1,329	99.25%	10.72%	10.71%	0.02%
11,149	11,411	(262)	102.35%	0.70%	0.68%	0.01%
172,858	170,266	2,592	98.50%	10.38%	10.43%	-0.05%
58,142	56,524	1,618	97.22%	3.45%	3.47%	-0.03%
7,558	7,700	(142)	101.88%	0.47%	0.47%	0.00%
12,622	12,366	256	97.97%	0.75%	0.76%	0.00%
743,846	725,434	18,413	97.52%	44.24%	44.55%	-0.31%
165,273	169,855	(4,582)	102.77%	10.36%	10.14%	0.22%
308,971	310,096	(1,125)	100.36%	18.91%	18.77%	0.14%
295	314	(19)	106.54%	0.02%	0.02%	0.00%
\$1,657,907	\$1,639,829	\$18,078	98.91%	100.00%	100.00%	0.00%

The expense is under budget, \$18,078, due to retiree health "pay-go" premiums.

Questions from Member Agencies

(Submitted to Finance Committee for
9/20/2022 Meeting from
Santa Margarita Water District)

Question 1:

[Preliminary Use Audit Book]

Page 2: Please discuss the allocation of the Unfunded Pension Liability (UAL) and Retiree Health (OPEB) costs. SMWD has an almost \$5K overage.

	O&M							FY 19-20 Distr. %'s
	¹ FY 2021-22 Budget	FY 2021-22 Actual	(Over)/Under Budget	% Expended	Bd Approved Method FY 21-22	Bd Approved Method FY 20-21	% Change between 2022 and 2021	
UAL & OPEB								
City of Laguna Beach	\$177,192	175,863	\$1,329	99.25%	10.72%	10.71%	0.02%	10.69%
City of San Clemente	11,149	11,411	(262)	102.35%	0.70%	0.68%	0.01%	0.67%
City of San Juan Capistrano	172,858	170,266	2,592	98.50%	10.38%	10.43%	-0.05%	10.43%
El Toro Water District	58,142	56,524	1,618	97.22%	3.45%	3.47%	-0.03%	3.51%
Emerald Bay Service District	7,558	7,700	(142)	101.88%	0.47%	0.47%	0.00%	0.46%
Irvine Ranch Water District	12,622	12,366	256	97.97%	0.75%	0.76%	0.00%	0.76%
Moulton Niguel Water District	743,846	725,434	18,413	97.52%	44.24%	44.55%	-0.31%	44.87%
Santa Margarita Water District	165,273	169,855	(4,582)	102.77%	10.36%	10.14%	0.22%	9.97%
South Coast Water District	308,971	310,096	(1,125)	100.36%	18.91%	18.77%	0.14%	18.64%
Trabuco Canyon Water District	295	314	(19)	106.54%	0.02%	0.02%	0.00%	0.02%
Total	\$1,657,907	\$1,639,829	\$18,078	98.91%	100.00%	100.00%	0.00%	100.00%

The expense is under budget, \$18,078, due to retiree health "pay-go" premiums.

SMWD Budget Variance	
¹ FY 21-22 Budget is distributed using FY 2019-20 distribution %'s; %'s updated annually	
FY 21-22 Budget using FY 19-20 %'s	\$165,273 (\$1,657,907 x 9.97%)
FY 21-22 Budget using FY 21-22 %'s	171,728 (\$1,657,907 x 10.36%)
Budget Variance due to %'s Change	(\$6,455)
Favorable budget variance	1,873 (\$18,078 x 10.36%)
Net Change	(\$4,582)

Question 2:

[Preliminary Use Audit Book]

Page 5: Please walk through the middle table as part of the presentation.

City of Laguna Beach	City of San Clemente	City of San Juan Capistrano	El Toro Water District	Emerald Bay Service District	Irvine Ranch Water District	Moulton Niguel Water District	Santa Margarita Water District	South Coast Water District	Trabuco Canyon Water District	Total
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O&M Actual											
Project Committee											
PC 2 - Jay B. Latham Plant	\$ -	\$ -	\$1,643,566	\$ -	\$ -	\$ -	\$1,217,649	\$2,192,654	\$1,379,738	\$ -	\$6,433,607
PC 5 - San Juan Creek Ocean Outfall	-	97,738	65,159	-	-	-	91,210	260,635	87,543	-	602,285
PC 8 - Pretreatment Program	8,536	34,601	7,459	6,327	2,532	20,879	33,392	46,722	31,386	-	191,833
PC 12 SO- Water Reclamation Permits	-	-	9,412	-	-	-	25,607	25,659	10,908	9,517	81,103
PC 15 - Coastal Treatment Plant/AWT	1,185,562	-	-	-	60,688	-	190,959	-	1,386,664	-	2,823,872
PC 17 - Joint Regional Wastewater Reclamation	496,545	-	-	616,522	22,269	-	5,939,024	-	401,976	-	7,476,335
PC 21 Effluent Transmission Main	-	-	-	188	-	188	83	-	-	-	458
PC 23 North Coast Interceptor	6,772	-	-	-	291	-	-	-	-	-	7,063
PC 24 - Aliso Creek Ocean Outfall	59,966	-	-	88,870	4,252	85,914	239,038	-	67,108	-	545,148
Total	\$1,757,380	\$132,339	\$1,725,595	\$711,907	\$90,032	\$106,980	\$7,736,962	\$2,525,670	\$3,365,323	\$9,517	\$18,161,705

Total Admin, General Fund & Engineering \$246,325 \$38,290 \$242,710 \$115,817 \$56,719 \$47,026 \$949,546 \$333,693 \$452,416 \$12,702 \$2,495,244

Admin Allocation to Project Committees:											
Project Committee											
PC 2 - Jay B. Latham Plant	0.0%	0.0%	95.2%	0.0%	0.0%	0.0%	15.7%	86.8%	41.0%	0.0%	35.4%
PC 5 - San Juan Creek Ocean Outfall	0.0%	73.9%	3.8%	0.0%	0.0%	0.0%	1.2%	10.3%	2.6%	0.0%	3.3%
PC 8 - Pretreatment Program	0.5%	26.1%	0.4%	0.9%	2.8%	19.5%	0.4%	1.8%	0.9%	0.0%	1.1%
PC 12 SO- Water Reclamation Permits	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.3%	1.0%	0.3%	100.0%	0.4%
PC 15 - Coastal Treatment Plant/AWT	67.5%	0.0%	0.0%	0.0%	67.4%	0.0%	2.5%	0.0%	41.2%	0.0%	15.5%
PC 17 - Joint Regional Wastewater Reclamation	28.3%	0.0%	0.0%	86.6%	24.7%	0.0%	76.8%	0.0%	11.9%	0.0%	41.2%
PC 21 Effluent Transmission Main	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
PC 23 North Coast Interceptor	0.4%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
PC 24 - Aliso Creek Ocean Outfall	3.4%	0.0%	0.0%	12.5%	4.7%	80.3%	3.1%	0.0%	2.0%	0.0%	3.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Admin Allocation to Project Committees:											
Project Committee											
PC 2 - Jay B. Latham Plant	\$ -	\$ -	\$231,173	\$ -	\$ -	\$ -	\$149,440	\$289,694	\$185,485	\$ -	\$855,792
PC 5 - San Juan Creek Ocean Outfall	-	28,278	9,165	-	-	-	11,194	34,435	11,769	-	94,841
PC 8 - Pretreatment Program	1,196	10,011	1,049	1,029	1,595	9,178	4,098	6,173	4,219	-	38,549
PC 12 SO- Water Reclamation Permits	-	-	1,324	-	-	-	3,143	3,390	1,466	12,702	22,025
PC 15 - Coastal Treatment Plant/AWT	166,175	-	-	-	38,233	-	23,436	-	186,416	-	414,260
PC 17 - Joint Regional Wastewater Reclamation	69,599	-	-	100,299	14,029	-	728,888	-	54,040	-	966,854
PC 21 Effluent Transmission Main	-	-	-	31	-	83	10	-	-	-	123
PC 23 North Coast Interceptor	949	-	-	-	183	-	-	-	-	-	1,132
PC 24 - Aliso Creek Ocean Outfall	8,405	-	-	14,458	2,679	37,766	29,337	-	9,022	-	101,666
Total	\$246,325	\$38,290	\$242,710	\$115,817	\$56,719	\$47,026	\$949,546	\$333,693	\$452,416	\$12,702	\$2,495,244

- (1) O&M distribution by project committee and member agency are based on actual usage, flows, solids, AWT, and other agreed to methods
- (2) Admin, general fund, and Engineering are distributed based on O&M and a Board approved method for general fund, respectively (see pages 3&4)
- (3) The amounts distributed on pages 3&4 are distributed by Project Committees and Member Agency based on O&M actuals in #1. Member Agencies require this.

Question 3:

[Preliminary Use Audit Book]

Page 7: Note 1 – Do we know what the impact of the additional budget approved will be by agency? A preliminary amount?

There is no Use Audit Impact because the additional budget was not invoiced.

02 - Jay B. Latham Plant

Electricity	\$ 30,000
Natural Gas	70,000
Chlorine/Sodium Hypochlorite	15,000
Ferric Chloride	90,000
Odor Control Chemicals	15,000
Grit Hauling	18,000
Management Support Services	5,000
Insurance - Property/Liability	35,000
Permits	12,000
Biosolids Disposal	20,000
Contract Serv - Digester Cleaning - 29E	30,000
Maintenance Equip. & Facilities (Solids)	50,000
Maintenance Equip. & Facilities (Common)	45,000
	<u>435,000</u>

12 - Water Reclamation Permits

Management Support Services	45,000
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15 - Coastal Treatment Plant

Management Support Services	5,000
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17 - Joint Regional Wastewater Reclamation

Natural Gas	30,000
Management Support Services	5,000
Legal Fees	30,000
Insurance - Property/Liability	40,000
	<u>105,000</u>

23 - North Coast Interceptor

Legal Fees	7,070
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\$ 597,070

Question 3 (cont.): [Preliminary Use Audit Book]

Page 7: Note 1 – Do we know what the impact of the additional budget approved will be by agency? A preliminary amount?

The Use Audit results will not change because the additional budget was not invoiced.

Additional Board Approved Budget by Project Committee and Member Agency

	16	17	18	19	20	21	22	23	24	25	
	City of Laguna Beach	City of San Clemente	City of San Juan Capistrano	El Toro Water District	Emerald Bay Service District	Irvine Ranch Water District	Moulton Niguel Water District	Santa Margarita Water District	South Coast Water District	Trabuco Canyon Water District	Total
PC 2 - Jay B. Latham Plant	\$ -	\$ -	\$ 110,693	\$ -	\$ -	\$ -	\$ 83,300	\$ 146,675	\$ 94,332	\$ -	\$ 435,000
PC 3A-Plant 3A/AWT											
PC 5 - San Juan Creek Ocean Outfall											
PC 8 - Pretreatment Program											
PC 12 SO- Water Reclamation Permits			5,236				14,216	14,184	6,069	5,295	45,000
PC 15 - Coastal Treatment Plant/AWT	1,896				150		1,463		1,493		5,000
PC 17 - Joint Regional Wastewater Reclaimatic	8,146			12,210	395		77,691		6,558		105,000
PC 21 Effluent Transmission Main											
PC 23 North Coast Interceptor	6,779				291						7,070
PC 24 - Aliso Creek Ocean Outfall											
	\$ 16,820	\$ -	\$ 115,929	\$ 12,210	\$ 835	\$ -	\$ 176,670	\$ 160,859	\$ 108,451	\$ 5,295	\$ 597,070
	2.8%	0.0%	19.4%	2.0%	0.1%	0.0%	29.6%	26.9%	18.2%	0.9%	

- * 02/03/2022 Board approved budget amendment for PC 12-Water Reclamation Management Support Services, \$45,000, for Support Services Salt & Nutrient Management Plan.
- * 02/03/2022 Board approved budget amendment for PC 2- \$5,000, PC 15- \$5,000, PC 17- \$5,000 Management Support Services, total \$15,000 for CASA Climate Change Program.
- * 02/14/2022 PC 23 Committee approved budget amendment for PC 23 - \$7,070, for work performed on the Intertie Project.
- * 05/19/2022 Board approved budget amendment for PC 2 - \$430,000 and PC 17 - \$100,000, due to expense inflationary increase.

Question 4:

[Preliminary Use Audit Book]

Page 15 Note 1: If this is construction support labor, wouldn't this be capitalized to labor rather than the O&M?

O&M labor supporting capital projects has been identified and capitalized.
The increase in overtime was backfill O&M work unrelated to Capital projects.

Question 5:

[Preliminary Use Audit Book]

Page 16: Note 1: please discuss the nature of the reclassification.

Reclassification; the engineering trailer was budgeted in O&M.

Agenda Item

7.E.

Board of Directors Meeting

Meeting Date: October 6, 2022

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: August 2022 Operations Report

Summary/Discussion

The following selected operational reports are provided monthly to the Board of Directors. The operational reports included are as follows:

1. Monthly Operational Report

An eight (8) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing calculations used by SOCWA for billing the agencies. Other items include important statistics for regulatory compliance, visits by the public to the treatment works, and other vendor interactions. The information is broken down by facility and by member agency.

2. SOCWA Ocean Outfall Discharges by Agency

This data shows how much water is being discharged into the ocean each month and for the last 12 months. This data is presented for the agencies planning reuse projects to better understand the potential to expand water reuse in their service area.

3. Beach Ocean Monitoring Report

4. Recycled Water Report

5. Pretreatment Report

Fiscal impact

No change.

Recommended Action: Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report August, 2022

Excursion, Complaint, and Violation Events

Events	CTP	RTP	JBL	Totals
Odor	0	0	0	0
Noise	0	0	0	0
Spills	0	0	0	0
Violations	0	0	0	0
Others	0	0	0	0

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.74	6.83	6.72	0.95	17.24
Effluent (mgd)	2.09	0.48	6.72	2.19	11.47
Peak Flow (mgd)	6.70	14.82	11.73	5.33	38.58
Influent BOD (mg/l)	226	319	308	359	
Influent TSS (mg/l)	248	375	435	289	
Effluent BOD (mg/l)	4.1	4.2	9.3	8.0	
Effluent TSS (mg/l)	3.4	5.6	8.1	6.8	
Effluent Turbidity (NTU)	2.3	3.3	6.3	4.1	

(1) CTP Influent value does not include AWT backwash in this table.

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	1.04	6.34		7.38
Days of Operation (days)	31	31		
Total Flow (million gallons)	32.2	196.7		228.8
Plant Irrigation (million gallons)	0.00	0.09	0.24	
AWT Time Online (%)	97.7	99.0		

Wastewater Unit Definitions

mgd = million gallons per day

mg/l = milligram per liter also known as parts per million

NTU = Nephelometric Turbidity Units

SOCWA Operational Report August, 2022 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		776.2	0.0	776.2
Nursery Products (tons)		0.0	0.0	0.0
Prima Deshecha (tons)		19.3	0.0	19.3
Other:Liberty Farms (tons)		376.0	597.0	973.0
Total Processed (tons)		1,171.4	597.0	1,768.4

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	106	463	411	980
Corrective Maintenance	14	47	51	112

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	1	1	0	2
Member Agency	0	5	6	11
Residents	0	0	0	0
Others	4	6	14	24
Tours #/Visitors	0	0	0	0

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	6.7	17.3	24.5	48.4

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	NA	54.4	NA	54.4
Utility Power Purchase (kWh)	187,091	87,091	153,879	428,061
Cogen Power (kWh)		558,434	447,372	1,005,806
Natural Gas (Dth)	1	2,022	1,791	3,814
Digester Gas to Engine (scfm)		8,310,254	4,394,281	12,704,535
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		993,884	256,281	1,250,165
Digester Gas Power Savings		\$128,619		

NA = Not Available at the time this report was generated.

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report August, 2022 (cont'd)

Agency Wastewater Flows to SOCWA by Facility (Including Internal Waste Streams Used for Billing)

Agency	CTP (mgd)	CTP (%)	RTP (mgd)	JBL (mgd)	JBL (%)	Total (mgd)
CLB	1.485	52.10%				1.49
EBSD	0.062	2.19%				0.06
SCWD	1.303	45.71%		1.622	21.15%	2.93
MNWD	0.000	0.00%	6.83	1.400	18.25%	8.23
CSJC				2.140	27.89%	2.14
SMWD				2.510	32.71%	2.51
Total	2.851	100.00%	6.83	7.672	100.00%	17.35

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.49	29.59%	1.49	
EBSD				0.06	1.24%	0.06	
SCWD	1.79	17.03%		0.41	8.26%	2.20	Includes Desalters
MNWD	2.10	20.04%		0.48	9.59%	2.58	
ETWD				1.41	28.06%	1.41	Direct Outfall Only
CSJC	2.52	24.05%				2.52	Includes Desalter
SMWD	2.52	24.04%				2.52	Includes Chiquita
CSC	1.56	14.84%				1.56	Direct Outfall Only
IRWD				1.17	23.25%	1.17	Direct Outfall Only
Total	10.48	100.00%	12.39	5.02	100.00%	15.50	

SOCWA Operational Report August, 2022 (cont'd)

FY Flow/Solids Summary-Billing

Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSJC	4.00	30.77%	2.210	26.25%	2.140	27.89%	2.12	26.46%
MNWD	3.00	23.08%	1.400	16.63%	1.400	18.25%	1.40	17.46%
SCWD	3.75	28.85%	1.610	19.12%	1.622	21.15%	1.64	20.44%
SMWD	2.25	17.31%	3.200	38.00%	2.510	32.71%	2.86	35.64%
Total	13.00	100.00%	8.420	100.00%	7.672	100.00%	8.02	100.00%

Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	36 Month Rol. Avg. (lbs/d) (2)	36 Month Rol. Avg. (%)
CSJC	11,572	30.00%	5,884	22.54%	5,849	25.78%	6,354	23.04%
MNWD	8,340	21.62%	6,169	23.63%	5,331	23.49%	6,437	23.34%
SCWD	7,715	20.00%	5,584	21.39%	1,953	8.61%	6,070	22.01%
SMWD	10,946	28.38%	8,473	32.45%	9,557	42.12%	8,715	31.60%
Total	38,573	100.00%	26,110	100.00%	22,691	100.00%	27,576	100.00%

Project Committee No. 5 - San Juan Creek Ocean Outfall (SJCOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSC	16.63%	13.300	16.63%	1.556	14.84%	1.607	15.14%
CSJC	11.08%	8.860	11.08%	2.522	24.05%	2.469	23.27%
MNWD(3)	15.51%	12.410	15.51%	2.101	20.04%	1.855	17.48%
SCWD	12.46%	9.970	12.46%	1.785	17.03%	1.811	17.07%
SMWD	44.32%	35.460	44.33%	2.520	24.04%	2.869	27.04%
Total	100.00%	80.000	100.00%	10.484	100.00%	10.610	100.00%

(1) Influent billing meter summary:

- CSJC is metered daily in the collection system. The area-velocity meter has an accuracy of +/- 20%.
- MNWD is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.
- SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.
- The Oso Trabuco sewer is metered daily in the collection system. The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows. The metering system in the collection system has an accuracy of +/- 20%.

(2) The 36-month average is the average of the past 36 months. The Use Audit is based on the last 3 Fiscal Years versus the average of the past 36 months.

(3) All monthly flow data for 3A is reported as part of MNWD's flow to the ocean outfall.

SOCWA Operational Report August, 2022 (cont'd)

FY Flow/Solids Summary-Billing (cont'd)

Project Committee No. 15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	2.54	37.91%	1.496	55.22%	1.485	52.10%	1.506	51.47%
EBSD	0.20	2.99%	0.060	2.21%	0.062	2.19%	0.075	2.55%
SCWD	2.00	29.85%	1.153	42.56%	1.303	45.71%	1.345	45.98%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	2.709	100.00%	2.851	100.00%	2.926	100.00%

Project Committee No. 17 Liquids (RTP)

Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	0.00716	0.0942%	0.0000	0.0151	0.0151	0.2175%	0.0146	0.2111%
EBSD	0.00001	0.0001%	0.0000	0.0006	0.0006	0.0091%	0.0007	0.0104%
SCWD	0.00427	0.0562%	0.0000	0.0132	0.0132	0.1908%	0.0131	0.1884%
ETWD	0.01562	0.2055%	0.0000	0.0161	0.0161	0.2315%	0.0162	0.2342%
MNWD	7.57236	99.6439%	6.8255	0.0648	6.8903	99.3511%	6.8858	99.3559%
Total	7.59942	100.0000%	6.8255	0.1098	6.9353	100.0000%	6.9304	100.0000%

(1) Month total does not double count MNWD centrate. It is included in the Monthly Plant Influent too.

SOCWA Operational Report August, 2022 (cont'd)

FY Flow/Solids Summary (cont'd)

Project Committee No. 17 Solids (RTP)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Total Month (lbs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	4,406	11.89%	154,562	13.74%	148,792	13.43%
EBSD	295	0.59%	177	0.48%	6,488	0.58%	7,320	0.66%
SCWD	4,480	8.96%	3,392	9.16%	135,599	12.05%	132,788	11.99%
ETWD	10,200	20.41%	5,305	14.32%	164,538	14.62%	165,047	14.90%
MNWD	29,395	58.82%	23,769	64.16%	663,869	59.01%	653,887	59.02%
Total	49,975	100.00%	37,049	100.00%	1,125,056	100.00%	1,107,834	100.00%

Project Committee No. 24 (ACOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.00%	5.500	11.00%	1.485	29.59%	1.506	30.94%
EBSD	0.78%	0.390	0.78%	0.062	1.24%	0.075	1.53%
ETWD	16.30%	8.151	16.30%	1.409	28.06%	1.328	27.29%
IRWD	15.76%	7.880	15.76%	1.167	23.25%	1.192	24.49%
MNWD	43.85%	21.924	43.85%	0.482	9.59%	0.516	10.60%
SCWD	12.31%	6.155	12.31%	0.415	8.26%	0.250	5.14%
Total	100.00%	50.000	100.00%	5.020	100.00%	4.867	100.00%

SOCWA Operational Report August 2022 (cont'd)

Select Critical Equipment Repairs

JBL - PC2

Replaced failing process water line below grit tank.
Troubleshoot Primary Sludge Pump #1, which was not pumping full speed.
Repaired sections for corroded and leaking supernate and Strainer #2 drain pipes.
Repaired chain and broken flight on Secondary Tank #11.
Replaced failing TWAS valve.
Replaced 10 failing heat loop valves for Digester #2.
Troubleshoot Process Water Pump system, which was not showing flow on the flow meter.
Removed Primary Sludge Pump #2 for a scheduled small capital project overhaul.
Repaired leaking seal on Process Water Pump #2.
Supported ongoing construction by Olsson Construction.

CTP - PC15

Removed newly identified shrubs requested for removal by OCFA to reduce fire hazard risk.
Repaired a water leak near the Sludge Equalization tank.
Replaced failed aeration panels in East #1.
Replaced two failing TDS sensors and the SC200 on the AWT.
Worked with Cox Communications subcontractor to install fiber communications from Alicia Parkway.

RTP - PC17

Replaced failed HVAC unit in the Gas Management Building.
Troubleshoot the failing Hoffman Blower #2.
Rebuilt failing Air Compressor #41462.
Troubleshoot Odor Scrubber #3, which was not working correctly.
Replaced failing AWT sample pump that was shutting off the AWT.
Replaced failing pump seal for Primary Sludge Pump #3.
Replaced failed Odor Box on Basin #4 and rebuilt failed adjacent gate.

Support Services - ALL PC'S

Installed a high-level sensor inside of headworks as a backup alarm at JBL.
Repaired Cogen Engine coolant leak at JBL.
Troubleshoot and replaced the failing OIT for Centrifuge #2.
Repaired PanelView Control Screen with lost communication notice at JBL.
Troubleshoot malfunctioning 4-side nitrate probe at JBL.
Troubleshoot the failing pH sensor that controls the Odor Scrubber #2 at JBL.
Troubleshoot the failing AWT TDS probes at CTP.
Troubleshoot the failing AWT TDS SC200 at CTP.
Troubleshoot wiring and intermittent TWAS pumping issue at CTP.
Troubleshoot failing HVAC unit in the Gas Management Building at RTP.

SOCWA Operational Report August 2022 (cont'd)

Select Critical Equipment Repairs (cont'd)

Support Services - ALL PC'S (cont'd)

Completed project to separate the blower PLC and controllers to allow for troubleshooting the previously inaccessible blower system control programs at RTP.

Troubleshoot failing Air Compressor #41462 at RTP.

Replaced failed DAF Fan #6 for Foul Air Scrubber #3 at RTP.

Troubleshoot failed ORP probe of Foul Air Scrubber #2 at RTP.

Troubleshoot AWT Panel communications alarm at RTP.

Troubleshoot DAFT TWAS Collector controller in error at RTP.

Items with a (*) have been identified as preventable repairs.

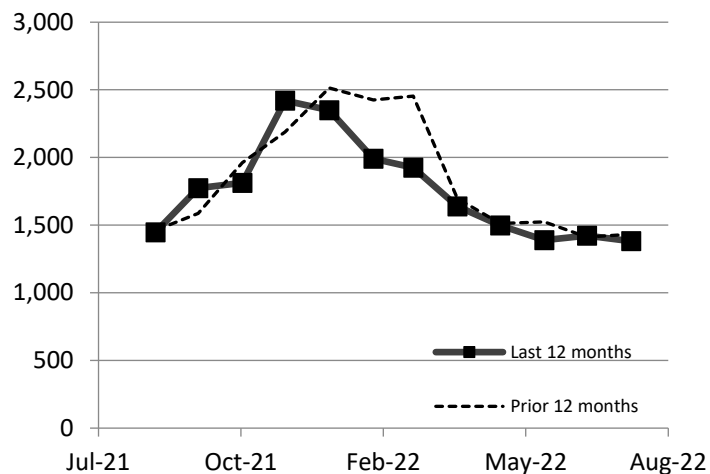
SOCWA Ocean Outfall Discharges by Agency

SOCWA Operational Report August, 2022 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.49	29.59%	1.49
EBSD			0.06	1.24%	0.06
SCWD	1.79	17.03%	0.41	8.26%	2.20
MNWD	2.10	20.04%	0.48	9.59%	2.58
ETWD			1.41	28.06%	1.41
CSJC	2.52	24.05%			2.52
SMWD	2.52	24.04%			2.52
CSC	1.56	14.84%			1.56
IRWD			1.17	23.25%	1.17
Total	10.48	100.00%	5.02	100.00%	15.50
or Acre-Feet per year equivalent					17,365

12-Month Running Total Discharge to Ocean Outfalls (AF)

Aug-22	1,382
Jul-22	1,422
Jun-22	1,389
May-22	1,498
Apr-22	1,638
Mar-22	1,924
Feb-22	1,991
Jan-22	2,349
Dec-21	2,420
Nov-21	1,813
Oct-21	1,773
Sep-21	1,446
Total	21,047



Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

August 2022

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO	Rain
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	FLOW	Fall
	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	MGD	MGD	MGD	inches
08/01/22	No Flow				1.907	17.0		0.3	0.530	4.1	5.0	<0.1	2.740	1.6	3.0	<0.1	0.778	0.444	0.136	6.535	0.00
08/02/22	No Flow				0.959	26.2	8.6	0.5	0.50	4.0	3.0	<0.1	1.956	2.8	3.0	<0.1	0.778	0.445	0.139	4.777	0.00
08/03/22	No Flow				1.189	32.0	9.4	0.9	0.380	3.3	3.0	0.1	2.066	2.3	3.0	0.1	0.769	0.444	0.157	5.005	0.00
08/04/22	No Flow				1.693	25.0	8.5	0.4	0.360	3.7	3.0	0.1	2.121	4.8	4.0	<0.1	0.777	0.438	0.149	5.538	0.00
08/05/22	No Flow				0.882			0.1	0.360	4.4	8.0	0.1	2.263	4.2	10.0	0.1	0.778	0.471	0.142	4.896	0.00
08/06/22	No Flow				1.276	13.3	5.1	<0.1	0.330	5.3	4.0		1.814	4.9	11.0		0.778	0.452	0.106	4.756	0.00
08/07/22	No Flow				1.838	8.0	3.9	<0.1	0.330	5.4	5.0	<0.1	2.411	3.8	4.0	<0.1	0.778	0.434	0.003	5.794	0.00
08/08/22	No Flow				1.149	8.4		<0.1	1.000	6.4	3.0	0.1	2.122	1.4	3.0	<0.1	0.777	0.433	0.094	5.575	0.00
08/09/22	No Flow				0.890	6.6	2.9	<0.1	0.360	5.8	5.0	<0.1	2.162	7.0	5.0	<0.1	0.778	0.433	0.143	4.766	0.00
08/10/22	No Flow				1.226	6.8	2.2	<0.1	0.360	5.0	1.0	0.1	1.592	4.1	3.0	<0.1	0.778	0.433	0.128	4.517	0.00
08/11/22	No Flow				1.845	5.0	1.9	<0.1	0.320	6.2	5.0	0.1	2.250	2.9	3.0	<0.1	0.778	0.432	0.146	5.771	0.00
08/12/22	No Flow				0.960	4.6	2.0	<0.1	0.320	5.2	6.0	<0.1	1.738	4.3	3.0	<0.1	0.777	0.432	0.137	4.364	0.00
08/13/22	No Flow				1.618	16.5	4.9	<0.1	0.330	5.1	6.0		1.770	3.2	8.0		0.778	0.460	0.143	5.099	0.00
08/14/22	No Flow				2.167	7.6		<0.1	0.360	6.2	6.0	<0.1	1.848	4.6	4.0	<0.1	0.778	0.440	0.114	5.707	0.00
08/15/22	No Flow				2.097	9.0		<0.1	0.400	6.2	3.0	<0.1	2.297	1.0	3.0	0.1	0.778	0.424	0.128	6.124	0.00
08/16/22	No Flow				0.879	11.0	2.1	0.1	1.020	4.7		<0.1	1.900	1.6		<0.1	0.777	0.423	0.134	5.133	0.00
08/17/22	No Flow				1.000	12.8	2.1	<0.1	1.310	11.0	4.0	0.1	1.597	2.4	2.0	<0.1	0.778	0.423	0.126	5.234	0.00
08/18/22	No Flow				1.510	11.3	2.1	<0.1	1.370	9.8	5.0	<0.1	1.230	4.6	5.0	<0.1	0.778	0.422	0.148	5.458	0.00
08/19/22	No Flow				1.077	10.3	3.3	0.1	0.270	4.8	4.0	<0.1	0.776	6.3	3.0	0.1	0.778	0.449	0.145	3.495	0.00
08/20/22	No Flow				0.916	12.5	4.0	0.1	0.290	7.0	4.0		1.574	5.0	6.0		0.778	0.452	0.118	4.128	0.00
08/21/22	No Flow				2.037	12.4		0.1	0.310	6.0	5.0	<0.1	1.479	2.7	4.0	<0.1	0.778	0.436	0.128	5.168	0.00
08/22/22	No Flow				1.853	12.6		0.1	0.570	6.2	3.0	<0.1	2.221	0.7	3.0	<0.1	0.777	0.431	0.128	5.980	0.00
08/23/22	No Flow				0.993	17.0	2.3	0.1	0.640	5.1	3.0	<0.1	2.048	1.9	3.0	<0.1	0.756	0.430	0.104	4.971	0.00
08/24/22	No Flow				1.054	17.6	3.6	1.3	0.340	7.8	7.0	<0.1	2.115	2.5	7.0	<0.1	0.754	0.430	0.134	4.827	0.00
08/25/22	No Flow				2.075	33.0	3.5	0.5	0.270	6.1	4.0	0.2	1.923	0.9	3.0	<0.1	0.753	0.458	0.138	5.617	0.00
08/26/22	No Flow				0.901	29.3	5.0	0.4	0.260	4.9	3.0	0.1	2.518	3.6	4.0	0.1	0.754	0.444	0.134	5.011	0.00
08/27/22	No Flow				1.801	27.7	5.6	0.3	0.250	5.3			2.156	4.1	4.0		0.733	0.445	0.154	5.539	0.00
08/28/22	No Flow				2.060	41.0		0.8	0.250	4.8	4.0	<0.1	2.083	7.4	3.0	<0.1	0.730	0.429	0.114	5.666	0.00
08/29/22	No Flow				1.934	11.6		0.2	0.920	5.5	3.0	<0.1	2.164	3.9	3.0	<0.1	0.730	0.429	0.127	6.304	0.00
08/30/22	No Flow				0.971	7.8	2.1	0.1	0.370	4.5	3.0	<0.1	1.935	3.2	2.0	<0.1	0.032	0.428	0.138	3.874	0.00
08/31/22	No Flow				0.912	8.5	1.7	<0.1	0.250	3.5	4.0	<0.1	1.973	1.0	2.0	<0.1	0.276	0.427	0.131	3.969	0.00
AVG	No Flow				1.409	15.4	3.9	<0.2	0.482	5.6	4.2	<0.1	1.963	3.4	4.1	<0.1	0.730	0.438	0.128	5.148	
TOTAL	No Flow				43.67				14.93				60.84				22.62	13.57	3.966	159.60	0.00

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1 2022
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 1300

Weather: Clear

COMMENTS:

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material of Sewage								
			CFU/100ml	CFU/100ml	CFU/100ml	Origin		Oil &		Water	H2O	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	08/02/22	1005	<10	<10	<2	None	None	None	None	Green	65	Clear		
S4	08/02/22	1220	<10	<10	<2	None	None	None	None	Green		Clear		
S5	08/02/22	1155	<10	<10	<2	None	None	None	None	Green		Clear		
S6	08/02/22	1140	<10	<10	10	None	None	None	None	Green		Clear		
WEST	08/02/22	1130	<100	<10	20	None	None	None	None	Green		Clear		
S7	08/02/22	1125	<10	<10	2	None	None	None	None	Green		Clear		
S8	08/02/22	1120	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	08/02/22	1105	<100	<10	6	None	None	None	None	Green		Clear		
ACM1	08/02/22	1100	<100	<10	8	None	None	None	None	Green		Clear		
S10	08/02/22	1040	<100	<10	2	None	None	None	None	Green		Clear		
S11	08/02/22	1035	<10	<10	<2	None	None	None	None	Green		Clear		
S12	08/02/22	1025	<10	<10	<2	None	None	None	None	Green		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Monitoring

#2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0917

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage				Water	H2O	Water	Water	
			Coliform	Coliform	coccus	Origin		Oil &	Odor					
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore	Grease						
			SM9222B	SM9222D	EPA 1600					Color	Temp(F)	Condition	Outlet	Birds
S3	08/10/22	0755	10	<10	2	None	None	None	None	Green	67	Clear		
S4	08/10/22	1020	10	<10	<2	None	None	None	None	Green		Clear		
S5	08/10/22	1000	<10	<10	2	None	None	None	None	Green		Clear		
S6	08/10/22	0945	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	08/10/22	0940	<10	<10	<2	None	None	None	None	Green		Clear		
S7	08/10/22	0935	<10	<10	<2	None	None	None	None	Green		Clear		
S8	08/10/22	0930	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	08/10/22	0915	10	<10	10	None	None	None	None	Green		Clear		
ACM1	08/10/22	0910	<10	<10	<2	None	None	None	None	Green		Clear		
S10	08/10/22	0850	20	<10	2	None	None	None	None	Green		Clear		
S11	08/10/22	0840	20	10	10	None	None	None	None	Green		Clear		
S12	08/10/22	0830	<10	<10	2	None	None	None	None	Green		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100m

Unified Beach Monitoring

#3

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 0753

Weather: Partly Cloudy

COMMENTS:

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material of Sewage								
			CFU/100ml	CFU/100ml	CFU/100ml	Origin		Oil &		Water	H2O	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	08/18/22	0748	<10	10	2	None	None	None	None	Blue	69	Clear		
S4	08/18/22	0940	<10	<10	<2	None	None	None	None	Blue		Clear		
S5	08/18/22	0935	10	<10	<2	None	None	None	None	Blue		Clear		
S6	08/18/22	0910	<10	<10	<2	None	None	None	None	Blue		Clear		
WEST	08/18/22	0907	10	<10	<2	None	None	None	None	Blue		Clear		
S7	08/18/22	0903	<10	<10	<2	None	None	None	None	Blue		Clear		
S8	08/18/22	0850	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	08/18/22	0846	10	<10	<2	None	None	None	None	Blue		Clear		
ACM1	08/18/22	0842	<10	<10	<2	None	None	None	None	Blue		Clear		
S10	08/18/22	0825	10	<10	<2	None	None	None	None	Blue		Clear		
S11	08/18/22	0820	<10	<10	<2	None	None	None	None	Blue		Clear		
S12	08/18/22	0815	<10	10	<2	None	None	None	None	Blue		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Monitoring

#4

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0921

Weather: Overcast

COMMENTS: S10 Dup

0.0

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material of Sewage								
			CFU/100ml	CFU/100ml	CFU/100ml	Origin		Oil &		Water	H2O	Water	Water	
STA#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Outlet	Birds
S3	08/24/22	0739	<10	<10	<2	None	None	None	None	Green	70	Clear		
S4	08/24/22	0927	<10	10	<2	None	None	None	None	Green		Clear		
S5	08/24/22	0921	<10	<10	10	None	None	None	None	Green		Clear		
S6	08/24/22	0901	10	<10	8	None	None	None	None	Green		Clear		
WEST	08/24/22	0857	<10	<10	2	None	None	None	None	Blue		Clear		
S7	08/24/22	0853	<10	<10	10	None	None	None	None	Green		Clear		
S8	08/24/22	0839	<10	20	2	None	None	None	None	Green		Clear		
S9	08/24/22	0835	10	<10	2	None	None	None	None	Green		Clear		
ACM1	08/24/22	0833	<10	<10	2	None	None	None	None	Green		Clear		
S10	08/24/22	0812	<10	<10	<2	None	None	None	None	Blue		Clear		
S11	08/24/22	0809	<10	10	4	None	None	None	None	Green		Clear		
S12	08/24/22	0800	20	20	8	None	None	None	None	Blue		Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 0538

Weather: Overcast/Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-										
			Coliform	Coliform	coccus	Material of Sewage						Water	H2O	Water	Water
			CFU/100ml	CFU/100ml	CFU/100ml	Origin	Oil &	Odor	Color	Temp(F)	Condition				
SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease										
S3	08/31/22	0726	<10	20	<2	None	None	None	None	Blue	60	Clear			
S4	08/31/22	0915	<10	<10	<2	None	None	None	None	Blue		Clear			
S5	08/31/22	0907	<10	<10	<2	None	None	None	None	Blue		Clear			
S6	08/31/22	0855	<10	<10	<2	None	None	None	None	Blue		Clear			
WEST	08/31/22	0850	10	<10	<2	None	None	None	None	Blue		Clear			
S7	08/31/22	0845	<10	10	<2	None	None	None	None	Blue		Clear			
S8	08/31/22	0830	10	<10	<2	None	None	None	None	Blue		Clear			
S9	08/31/22	0827	<10	<10	<2	None	None	None	None	Blue		Clear			
ACM1	08/31/22	0822	<10	<10	<2	None	None	None	None	Blue		Clear			
S10	08/31/22	0800	<10	<10	<2	None	None	None	None	Blue		Clear			
S11	08/31/22	0755	10	<10	<2	None	None	None	None	Blue		Clear			
S12	08/31/22	0750	<10	<10	<2	None	None	None	None	Blue		Clear			

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Water Quality Sample Station Map – Aliso Creek Ocean Outfall



Aliso Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station	Location
S3	Three Arch Bay Beach; 10,000' down-coast from ACOO
S4	Ninth Street-1000 Steps; 5,000' down-coast from ACOO
S5	Laguna Lido Beach; 4,000 down-coast from ACOO
West	West Street Drain; 2,000' down-coast from ACOO
S6	Table Rock Beach; 3,000' down-coast from ACOO
S7	Camel Point Beach; 2,000' down-coast from ACOO
S8	Aliso Beach south; 1,000' down-coast from ACOO
S9	Aliso Beach middle; at ACOO
ACM1	Aliso Beach at Aliso Creek Outlet
S10	Aliso Beach north; 1,000' up-coast of ACOO
S11	Treasure Island Beach; 2,000' up-coast of ACOC
S12	Goff Island Beach; 3,000' up-coast of ACOO

MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

REPORT FOR: August 2022

REPORT FREQUENCY: Monthly

REPORT DUE: October 1, 2022

SAMPLE SOURCE: Receiving water, nearshore and offshore

SAMPLING FREQUENCY: Monthly

EXACT SAMPLE POINTS: As specified in permit

TYPE OF SAMPLE: Grab

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

Comments: Low Tide 0701

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	08/03/22	<2	<2	<2	0855	0	0	
A-1	Mid depth	08/03/22	<10	<10	<10				
A-2	Surface	08/03/22	<2	<2	<2	0820	0	0	
A-2	Mid depth	08/03/22	<10	<10	10				
A-3	Surface	08/03/22	<2	<2	<2	0830	0	0	
A-3	Mid depth	08/03/22	<10	<10	<10				
A-4	Surface	08/03/22	<2	<2	<2	0905	0	0	
A-4	Mid depth	08/03/22	<10	<10	<10				
A-5	Surface	08/03/22	<2	<2	<2	0840	0	0	
A-5	Mid depth	08/03/22	<10	<10	<10				
B-1	Surface	08/03/22	<2	<2	<2	0805	0	0	
B-1	Mid depth	08/03/22	<10	<10	<10				
B-2	Surface	08/03/22	<2	<2	<2	0920	0	0	
B-2	Mid depth	08/03/22	<10	<10	<10				
N1	Surface	08/03/22	<2	2	<2	1045	0	0	
N2	Surface	08/03/22	<2	<2	<2	1050	0	0	
N3	Surface	08/03/22	<2	<2	<2	1055	0	0	
N4	Surface	08/03/22	<2	<2	<2	1100	0	0	
N5	Surface	08/03/22	<2	<2	<2	1105	0	0	
N6	Surface	08/03/22	<2	<2	<2	1110	0	0	
N7	Surface	08/03/22	<2	<2	<2	1115	0	0	

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of wasteshall not cause aesthetically undesirable discoloration of the ocean surface.

**Compliance Summary Report
Aliso Creek Ocean Outfall 2022**

ACOO Permit Order No. R9-2022-0006							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
IRWD - Los Alisos	5/4/2022	cBOD	Deficient Monitoring	mgl	Daily Monitoring	Weekly	\$3000
IRWD - Los Alisos	5/4/2022	Total Suspended Solids	Deficient Monitoring	mgl	Daily Monitoring	Weekly	\$3000
ETWD - WRP	5/18/2022	Settleable Solids	Category 1 Pollutant	m/L	3.00	7.00	\$3,000
SCWD - ACWHP	5/31/2022	Total Suspended Solids	Deficient Monitoring	mgl	Daily Monitoring	Monthly	\$3000
SCWD - ACWHP	5/31/2022	pH	Deficient Monitoring	SU	Daily Monitoring	Monthly	\$3000



SOCWA and MEMBER AGENCY FACILITIES
ACOO Spill / Overflow Report Log - 2022
Order No. R9-2022-0006 ~ NPDES Permit No. CA0107611

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
No spills during this monitoring period.							

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

August 2022

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC Desalter	SCWD Desalter	SJCOO	Rain Fall
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	inches
08/01/22	7.120	5.4	8.6	<0.1	1.455	3.6	8.0	<0.1	0.002	2.5	6.6	<0.1	1.651	14.8	10.0	ND	0.366	0.183	11.740	0.00
08/02/22	7.200	5.1	7.6	<0.1	2.381	3.8	7.0	<0.1	0.022	3.7	6.0	0.3	0.481	10.2	7.8	ND	0.366	0.179	11.640	0.00
08/03/22	7.050	4.2	6.0	<0.1	1.982	3.6	7.0	<0.1	0.001	2.1	2.4	<0.1	0.247	14.6	7.8	<0.1	0.162	0.181	10.310	0.00
08/04/22	6.930	5.0	6.0	<0.1	1.961	3.7	7.0	<0.1	0.000				0.084	10.2	8.6	<0.1	0.000	0.181	9.760	0.00
08/05/22	6.980	6.4	7.6	<0.1	1.605	5.0	6.0	<0.1	0.000				0.121	10.0	8.0	<0.1	0.428	0.179	9.230	0.00
08/06/22	7.080	6.0	8.3		1.267		6.0		0.000				0.129				0.428	0.179	9.040	0.00
08/07/22	7.240	5.6	7.6	<0.1	1.228				0.000				0.375				0.428	0.183	9.560	0.00
08/08/22	7.060	5.0	6.4	<0.1	1.652	4.5	8.0	<0.1	0.000				0.145	8.8	6.5	<0.1	0.416	0.178	9.810	0.00
08/09/22	7.280	6.2	7.0	<0.1	1.447	4.3	8.0	<0.1	0.000				0.147	9.0	7.6	<0.1	0.411	0.179	10.080	0.00
08/10/22	7.070	3.9	5.6	<0.1	2.054	3.7	5.0	<0.1	0.021	0.8	2.3	<0.1	0.105	11.8	9.2	<0.1	0.411	0.180	9.820	0.00
08/11/22	6.710	6.3	7.2	0.1	0.687	4.1	4.0	<0.1	0.000				0.147	11.6	8.5	<0.1	0.411	0.182	9.520	0.00
08/12/22	6.750	5.5	7.8	<0.1	1.285	6.2	6.0	<0.1	0.000				0.079	11.2	8.6	<0.1	0.411	0.178	9.410	0.00
08/13/22	6.760	5.3	8.3		1.269		6.0		0.000				1.157				0.411	0.178	9.260	0.00
08/14/22	6.660	6.4	8.9	<0.1	1.260				0.000				0.703				0.411	0.171	10.190	0.00
08/15/22	6.700	5.4	8.8	0.1	1.450	5.6	8.0	<0.1	0.000				1.287	17.2	9.8	<0.1	0.399	No Flow	9.900	0.00
08/16/22	6.540	4.3		<0.1	1.675	5.6	7.0	<0.1	0.002	1.2	6.1	<0.1	2.055	10.6	9.1	<0.1	0.421	No Flow	10.800	0.00
08/17/22	6.200	4.2	5.7	<0.1	1.595	5.3	4.0	<0.1	0.101	1.0	1.6	0.3	1.815	15.8	12.5	<0.1	0.421	0.124	11.310	0.00
08/18/22	6.140	8.8	13.9	0.4	1.439	6.5	4.0	<0.1	0.000				1.858	12.6	9.4	<0.1	0.421	0.133	10.900	0.00
08/19/22	6.310	41.1	37.8	0.1	1.089	6.2	6.0	<0.1	0.000				1.888	6.6	5.8	<0.1	0.421	0.183	10.700	0.00
08/20/22	6.350	5.0	9.3		0.988		8.0		0.000				1.631				0.421	0.178	10.900	0.00
08/21/22	7.020	7.1	8.7	<0.1	1.313				0.000				1.741				0.421	0.178	11.180	0.00
08/22/22	6.950	14.3	15.3	<0.1	2.108	6.2	6.0	0.1	0.000				2.062	10.4	7.2	<0.1	0.421	0.179	11.930	0.00
08/23/22	6.670	7.8	6.0	<0.1	1.523	6.5	7.0	0.1	0.000				0.232	11.0	8.8	<0.1	0.420	0.170	11.870	0.00
08/24/22	6.450	7.5	7.7	<0.1	1.560	6.3	5.0	0.1	0.064	0.9	1.6	0.2	0.102	5.6	5.0	<0.1	0.421	0.134	9.780	0.00
08/25/22	6.530	7.3	8.8	<0.1	1.255	6.0	5.0	0.1	0.001	1.8	2.2	<0.1	0.105	6.2	4.5	<0.1	0.421	0.179	9.640	0.00
08/26/22	6.570	8.7	5.9	0.3	1.898	3.8	5.0	0.1	0.024	1.3	2.6	<0.1	0.101	14.0	11.5	<0.1	0.335	0.183	9.780	0.00
08/27/22	6.510	9.1	5.9		1.987		5.0		0.000				0.134				0.344	0.179	9.240	0.00
08/28/22	6.710	6.7	8.1	<0.1	1.588				0.000				0.132				0.376	0.179	9.570	0.00
08/29/22	6.580	8.3	7.8	<0.1	1.506	3.8	8.0	0.1	0.000				0.214	9.8	5.0	<0.1	0.376	0.178	9.710	0.00
08/30/22	6.690		6.7	<0.1	2.501	3.7	8.0	<0.1	0.000				0.113	8.8	6.6	<0.1	0.376	0.184	10.110	0.00
08/31/22	6.520	5.9	7.8	<0.1	1.217	4.0	5.0	<0.1	0.079	1.5	2.3	0.3		9.0	7.8	<0.1	0.376	0.179	9.570	0.00
AVG	6.753	7.6	8.9	<0.1	1.556	4.9	6.3	<0.1	0.010	1.7	3.4	<0.2	0.701	10.9	8.1	<0.1	0.382	0.163	10.202	
TOTAL	209.330				48.225				0.317				21.041				11.851	5.051	316.260	0.00

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 1251

Weather: Clear

COMMENTS: Large piles of Kelp at Doheny Sites
 More Kelp than usual at Capo Beach sites

STATION #	DATE	TIME	Total Fecal Entero- Coliform Coliform coccus			Material of Sewage Origin		Oil & Grease Odor		Water	H2O	Water	Water	Outlet	Birds
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore			Color	Temp(F)	Condition			
S0	08/01/22	1215	200	<20	110	None	None	None	None	Blue	76	Clear			
S1	08/01/22	1225	<200	<20	<2	None	None	None	None	Blue		Clear			
S2	08/01/22	1230	<20	<20	10	None	None	None	None	Blue		Clear			
DSB5	08/01/22	1310	20	40	2	None	None	None	None	Green		Clear			
S3	08/01/22	1250	<200	<20	<2	None	None	None	None	Blue		Clear			
DSB4	08/01/22	1315	20	<20	4	None	None	None	None	Green		Clear			
S5	08/01/22	1258	<200	<20	2	None	None	None	None	Blue		Clear			
DSB1	08/01/22	1320	40	20	2	None	None	None	None	Green		Clear			
SJC1	08/01/22	1242	<100	100	<10	None	None	None	None	Blue		Clear			

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Monitoring

#2

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0838

Weather: Clear

COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Condition	Outlet	
S0	08/09/22	1110	<200	<20	<2	None	None	None	None	Green	67	Slightly Turbid			
S1	08/09/22	1115	<20	<20	2	None	None	None	None	Green		Slightly Turbid			
S2	08/09/22	1030	<200	<20	<2	None	None	None	None	Green		Slightly Turbid			
DSB5	08/09/22	1000	<200	<20	6	None	None	None	None	Green		Slightly Turbid			
S3	08/09/22	1120	<20	<20	<2	None	None	None	None	Green		Slightly Turbid			
DSB4	08/09/22	1125	<20	<20	<2	None	None	None	None	Green		Slightly Turbid			
S5	08/09/22	1135	<20	<20	<2	None	None	None	None	Green		Slightly Turbid			
DSB1	08/09/22	1145	<20	<20	2	None	None	None	None	Green		Slightly Turbid			
SJC1	08/09/22	1140	<100	<100	<10	None	None	None	None	Green		Slightly Turbid			

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 0639

Weather: Overcast

COMMENTS: Large amounts of kelp present, both washed upon the shore, and floating in the ocean.

STATION #	DATE	TIME	Total Coliform CFU/100ml	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Condition	Outlet	
S0	08/16/22	845	20	<20	2	None	None	None	None	Green	73	Slightly Turbid			
S1	08/16/22	850	<20	<20	52	None	None	None	None	Green		Clear			
S2	08/16/22	822	<20	<20	2	None	None	None	None	Green		Clear			
DSB5	08/16/22	813	60	80	140	None	None	None	None	Green		Clear			
S3	08/16/22	908	<20	<20	580	None	None	None	None	Green		Clear			
DSB4	08/16/22	910	<20	<20	460	None	None	None	None	Green		Clear			
S5	08/16/22	916	<20	<20	<2	None	None	None	None	Green		Clear			
DSB1	08/16/22	935	<20	<20	6	None	None	None	None	Green		Clear			
SJC1	08/16/22	827	<100	<100	<10	None	None	None	None	Green		Clear			

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Unified Beach Monitoring

#4

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0850

Weather: Overcast

COMMENTS: Large piles of kelp present at Doheny beach.

Duplicate = DSB5Z

STATION #	DATE	TIME	Total Coliform CFU/100ml	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Condition	Outlet	
S0	08/23/22	0900	<20	<20	<2	None	None	None	None	Blue			Clear		
S1	08/23/22	0905	<20	<20	2	None	None	None	None	Blue			Clear		
S2	08/23/22	0840	<20	<20	2	None	None	None	None	Blue			Clear		
DSB5	08/23/22	0820	<20	<20	2	None	None	None	None	Blue	70		Clear		
S3	08/23/22	0927	<20	<20	4	None	None	None	None	Green			Clear		
DSB4	08/23/22	0931	20	<20	2	None	None	None	None	Blue			Clear		
S5	08/23/22	0940	20	<20	2	None	None	None	None	Blue			Clear		
DSB1	08/23/22	0945	<20	<20	<2	None	None	None	None	Green			Clear		
SJC1	08/23/22	0850	<100	<100	<10	None	None	None	None	Blue			Clear		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: August 2022
 REPORT DUE: October 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

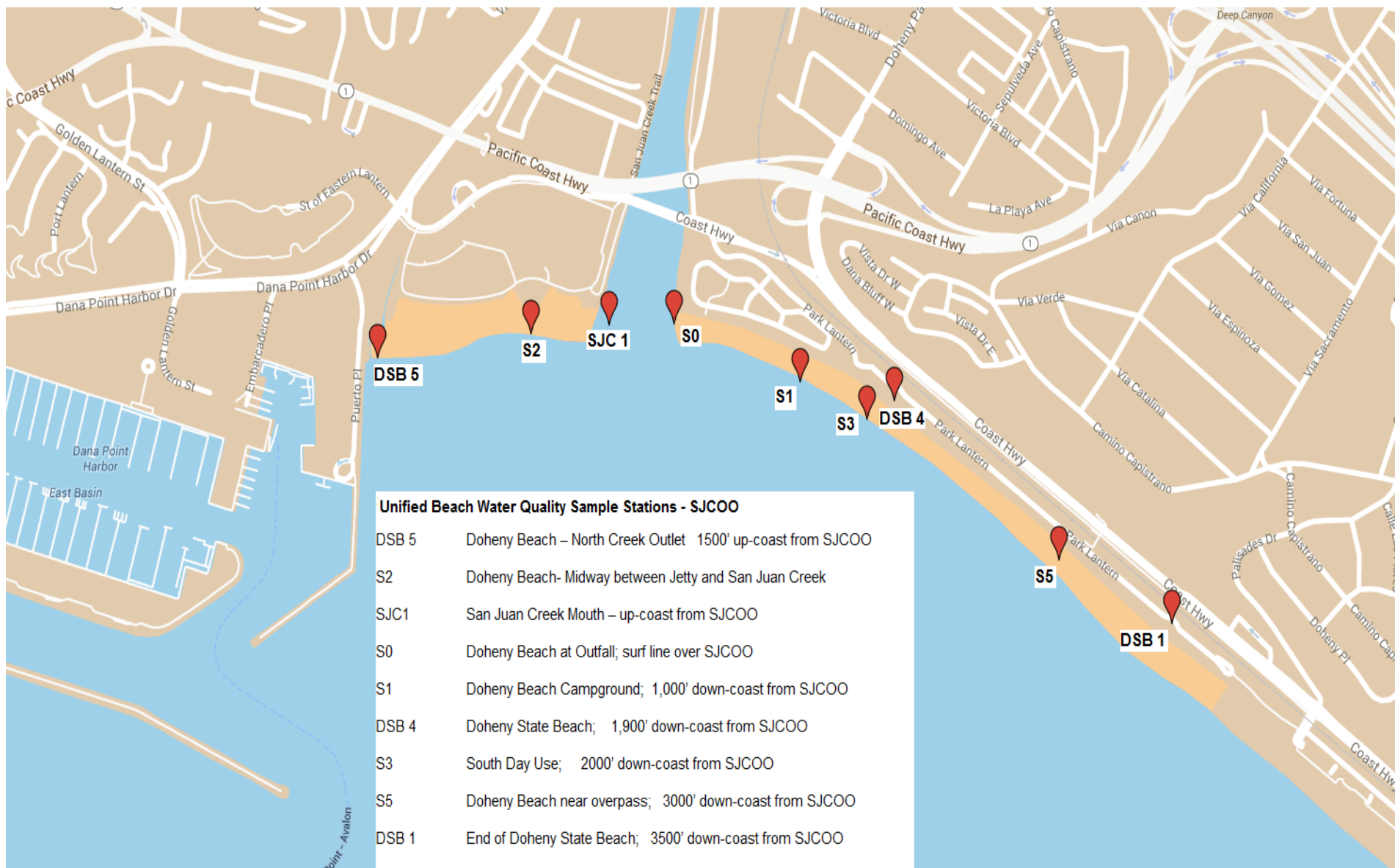
Tidal Condition: High Tide 1130

Weather: Clear

COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Condition	Outlet	
S0	08/30/22	817	20	<20	<2	None	None	None	None	Green			Slightly Turbid		3
S1	08/30/22	829	20	<20	2	None	None	None	None	Green			Slightly Turbid		
S2	08/30/22	800	<20	<20	10	None	None	None	None	Green			Slightly Turbid		
DSB5	08/30/22	751	60	40	22	None	None	None	None	Green			Slightly Turbid		
S3	08/30/22	844	<20	<20	<2	None	None	None	None	Green	70		Slightly Turbid		
DSB4	08/30/22	848	<20	<20	4	None	None	None	None	Green			Slightly Turbid		
S5	08/30/22	855	<20	<20	<2	None	None	None	None	Green			Slightly Turbid		
DSB1	08/30/22	900	<20	<20	4	None	None	None	None	Green	70		Slightly Turbid		
SJC1	08/30/22	809	<20	<20	68	None	None	None	None	Green			Slightly Turbid		

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.



San Juan Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station	Location
DSB 5	Doheny Beach – North Creek Outlet 1500' up-coast from SJCOO
S2	Doheny Beach- Midway between Jetty and San Juan Creek
SJC1	San Juan Creek Mouth – up-coast from SJCOO
S0	Doheny Beach at Outfall; surf line over SJCOO
S1	Doheny Beach Campground; 1,000' down-coast from SJCOO
DSB 4	Doheny State Beach; 1,900' down-coast from SJCOO
S3	South Day Use; 2000' down-coast from SJCOO
S5	Doheny Beach near overpass; 3000' down-coast from SJCOO
DSB 1	End of Doheny State Beach; 3500' down-coast from SJCOO

MONITORING REPORT

Offshore

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

REPORT FOR: August 2022

REPORT FREQUENCY: Monthly

REPORT DUE: October 1, 2022

SAMPLE SOURCE: Receiving water, nearshore and offshore

SAMPLING FREQUENCY: Monthly

EXACT SAMPLE POINTS: As specified in permit

TYPE OF SAMPLE: Grab

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

Comments: Low Tide 0735

Station No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	08/04/22	<2	<2	<2	0840	0	0	
A-1	Mid depth	08/04/22	<10	<10	<10				
A-2	Surface	08/04/22	<2	<2	<2	0847	0	0	
A-2	Mid depth	08/04/22	<10	<10	<10				
A-3	Surface	08/04/22	<2	<2	<2	0856	0	0	
A-3	Mid depth	08/04/22	<10	<10	<10				
A-4	Surface	08/04/22	<2	<2	<2	0910	0	0	
A-4	Mid depth	08/04/22	<10	<10	<10				
A-5	Surface	08/04/22	<2	<2	<2	0903	0	0	
A-5	Mid depth	08/04/22	<10	<10	<10				
B-1	Surface	08/04/22	<2	<2	<2	0831	0	0	
B-1	Mid depth	08/04/22	<10	<10	<10				
B-2	Surface	08/04/22	<2	<2	<2	0922	0	0	
B-2	Mid depth	08/04/22	<10	<10	<10				
N1	Surface	08/04/22	2	2	<2	0802	0	0	
N2	Surface	08/04/22	<2	<2	<2	0755	0	0	
N3	Surface	08/04/22	<2	<2	<2	0748	0	0	
N4	Surface	08/04/22	>=8	4	<2	0739	0	0	
N5	Surface	08/04/22	>=4	4	2	0732	0	0	
N6	Surface	08/04/22	<2	2	<2	0725	0	0	

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of waste shall not cause aesthetically undesirable discoloration of the ocean surface.

**Compliance Summary Report
San Juan Creek Ocean Outfall 2022**

SJCOO Permit Order No. R9-2012-0012 & R9-2022-0005							
Agency	Violation	Constituent	Effluent Limit	Units	Permit	Reported Value	Potential
	Date		Violation		Limit		Fine
SMWD/CSJC	03/09/2022	Oil and Grease	Weekly Average	mg/L	25.00	57.00	\$3,000
SMWD/CSJC	03/09/2022	Oil and Grease	Monthly Average	mg/L	40.00	57.00	\$3,000
CSC	03/18/2022	pH	Daily	SU	Daily	Not Reported	\$3,000
CSC	03/18/2022	Settleable Solids	Daily	ml/L	Daily	Not Reported	\$3,000
MNWD	3/30/2022	Settleable Solids	Daily	ml/L	3.00	3.60	\$3,000
MNWD	4/8/2022	Settleable Solids	Daily	ml/L	3.00	5.00	\$3,000
SCWD - GWRF	5/31/2022	Total Suspended Solids	Deficient Monitoring	mgl	Daily	Monthly	\$3000
SCWD - GWRF	5/31/2022	pH	Deficient Monitoring	SU	Daily	Monthly	\$3000

SOCWA and MEMBER AGENCY FACILITIES **SJCOO Spill / Overflow Report Log - 2022** **Order No. R9-202-0005 ~ NPDES Permit No. CA0107417**

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
No spills during this monitoring period.							

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SOCWA - RTP	1/2/2022	TDS	12-Month	mg/L	1000	1208	
SOCWA - RTP	1/2/2022	TDS	Daily Maximum	mg/L	1100	1310	
SOCWA - RTP	1/2/2022	Manganese	12-Month	mg/L	0.05	0.130	
TCWD - RRWRP	1/4/2022	TDS	12 month	mg/L	1000	1031	
TCWD - RRWRP	1/31/2022	Nitrate	Quarterly	mg/L	45	19.60	
SOCWA - RTP	2/1/2022	TDS	12-Month	mg/L	1000	1214	
SOCWA - RTP	2/1/2022	TDS	Daily Maximum	mg/L	1100	1200	
SOCWA - RTP	2/1/2022	Manganese	12-Month	mg/L	0.05	0.101	
SOCWA - RTP	2/1/2022	Iron	12-Month	mg/L	0.3	0.308	
SOCWA - CTP	2/1/2022	TDS	Daily Maximum	mg/L	1100	1320	
TCWD - RRWRP	2/1/2022	TDS	12 month	mg/L	1000	1035	
SOCWA - RTP	3/1/2022	TDS	12-Month	mg/L	1000	1218	
SOCWA - RTP	3/1/2022	TDS	Daily Maximum	mg/L	1100	1200	
SOCWA - RTP	3/1/2022	Manganese	12-Month	mg/L	0.05	0.101	
SOCWA - RTP	3/1/2022	Iron	12-Month	mg/L	0.3	0.309	
SOCWA - CTP	3/2/2022	TDS	Daily Maximum	mg/L	1100	1340	
SOCWA - CTP	3/3/2022	Manganese	12-Month	mg/L	0.05	0.808	
TCWD - RRWRP	3/1/2022	TDS	12 month	mg/L	1000	1054	
MNWD - 3A	3/16/2022	TDS	12-Month	mg/L	1000	1136	
MNWD - 3A	3/16/2022	TDS	Daily Maximum	mg/L	1100	1220	
SOCWA - RTP	4/7/2022	TDS	12-Month	mg/L	1000	1226	
SOCWA - RTP	4/7/2022	TDS	Daily Maximum	mg/L	1100	1260	
SOCWA - RTP	4/7/2022	Manganese	12-Month	mg/L	0.05	0.102	
SOCWA - RTP	4/7/2022	Iron	12-Month	mg/L	0.3	0.306	
SOCWA - CTP	4/7/2022	Manganese	12-Month	mg/L	0.05	0.114	
TCWD - RRWRP	4/5/2022	TDS	12 month	mg/L	1000	1052	
SOCWA - RTP	5/5/2022	TDS	12-Month	mg/L	1000	1230	
SOCWA - RTP	5/5/2022	TDS	Daily Maximum	mg/L	1100	1310	
SOCWA - RTP	5/5/2022	Manganese	12-Month	mg/L	0.05	0.102	
SOCWA - CTP	5/5/2022	Manganese	12-Month	mg/L	0.05	0.121	
TCWD - RRWRP	5/3/2022	TDS	12 month	mg/L	1000	1054	
MNWD - 3A	5/9/2022	TDS	12-Month	mg/L	1000	1147	
MNWD - 3A	5/9/2022	TDS	Daily Maximum	mg/L	1100	1190	
MNWD - 3A	5/9/2022	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	6/2/2022	TDS	12-Month	mg/L	1000	1235	
SOCWA - RTP	6/2/2022	TDS	Daily Maximum	mg/L	1100	1270	
SOCWA - RTP	6/2/2022	Manganese	12-Month	mg/L	0.05	0.120	
SOCWA - CTP	6/2/2022	Manganese	12-Month	mg/L	0.05	0.120	
TCWD - RRWRP	6/7/2022	TDS	12 month	mg/L	1000	1070	
SOCWA - RTP	7/14/2022	TDS	12-Month	mg/L	1000	1245	
SOCWA - RTP	7/14/2022	TDS	Daily Maximum	mg/L	1100	1260	
SOCWA - RTP	7/14/2022	Manganese	12-Month	mg/L	0.05	0.099	
SOCWA - CTP	7/14/2022	Manganese	12-Month	mg/L	0.05	0.116	
MNWD - 3A	7/5/2022	TDS	12-Month	mg/L	1000	1141	
MNWD - 3A	7/5/2022	Manganese	12-Month	mg/L	0.05	0.07	
TCWD - RRWRP	7/7/2022	TDS	12 month	mg/L	1000	1070	
SOCWA - RTP	8/4/2022	TDS	12-Month	mg/L	1000	1252	
SOCWA - RTP	8/4/2022	TDS	Daily Maximum	mg/L	1100	1290	
SOCWA - RTP	8/4/2022	Manganese	12-Month	mg/L	0.05	0.101	
SOCWA - CTP	8/4/2022	Manganese	12-Month	mg/L	0.05	0.113	
MNWD - 3A	8/15/2022	TDS	12-Month	mg/L	1000	1154	
MNWD - 3A	8/15/2022	TDS	Daily Maximum	mg/L	1100	1290	
MNWD - 3A	8/15/2022	Manganese	12-Month	mg/L	0.05	0.07	
TCWD - RRWRP	8/2/2022	TDS	12 month	mg/L	1000	1074	

Recycled Water Report

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Aug 31, 2022

Constituent	Units	12-month Avg Maximum Permit Limit	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average ***
TDS	mg/L	1000	1,074	934	878	961	1,154	1,252	1,060
Chloride	mg/L	375	248	200	203	293	230	251	230
Sulfate	mg/L	400	386	265	233	230	366	371	292
Sodium	mg/L	None	69	165	160	217	-	186	172
Alkalinity	mg/L	None	-	-	-	-	-	276	206
Adjusted SAR	Ratio	None	5.13	4.73	4.94	6.19	4.23	4.45	4.40
Iron	mg/L	0.3	0.010	0.021	0.123	0.012	0.18	0.271	0.135
Manganese	mg/L	0.05	0.006	0.022	0.040	0.009	0.07	0.101	0.113
MBAS	mg/L	0.5	ND	0.21	0.16	0.27	<0.03	<0.05	<0.05
Boron	mg/L	0.75	0.356	0.395	0.377	0.480	0.37	0.350	0.39
Fluoride	mg/L	None	0.65	0.700	0.55	0.68	0.73	0.74	0.77
Total Organic Carbon	mg/L	None	4.7	12.7	12.4	9.1	1.5	10.5	7.8

*** The CTP 12-month permit limits are listed below:

TDS	1200 mg/L
Chloride	400 mg/L
Sulfate	500 mg/L

SOCWA Service Area
Recycled Water Production (ac-ft)
2022

Agency	Facility or Region	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22	Nov '22	Dec '22	Annual Totals
CSJC 1	3-A Plant/MNWD	0.00	0.000	0.000	0.000	0.000	0.000	0.000	31.330					31.33
CSJC 2	Chiquita/SMWD	16.66	30.010	39.560	37.940	43.700	51.860	44.090	26.610					290.43
CSJC 3	Non-Domestic Well	1.00	7.708	18.530	22.222	29.982	32.138	46.460	37.055					195.10
ETWD	Region 8	37.87	112.254	138.103	155.436	187.776	218.361	199.478	186.463					1235.74
IRWD														
4	IRWD - 8	44.49	101.761	129.518	100.542	145.875	186.350	174.653	182.199					1065.39
4	IRWD - 9	22.36	50.450	63.884	57.658	86.173	105.340	93.496	99.722					579.09
SCWD	SOCWA CTP	9.152	63.518	76.573	96.780	125.072	139.324	131.162	98.671					740.25
MNWD	JRP	299.83	439.710	484.915	529.659	565.105	576.368	596.193	603.527					4095.31
	3-A Plant	0.00	0.000	37.397	0.000	141.430	142.553	140.629	131.305					593.31
5	CTP	-17.36	4.332	4.621	4.332	-0.870	6.875	8.785	17.416					28.13
SMWD	Oso Creek	140.68	93.644	Offline	Offline	Offline	Offline	Offline	Offline					234.32
	Chiquita	489.98	436.028	486.296	458.983	481.815	461.070	472.148	479.268					3765.59
	Nichols	1.52	1.614	2.157	1.642	1.602	1.774	1.995	2.130					14.43
TCWD	RRWRP	49.52	42.363	48.188	44.441	46.171	42.888	45.950	45.383					364.90
TOTALS		1095.70	1383.39	1529.74	1509.63	1853.83	1964.90	1955.04	1941.08					13233.32

- 1 Denotes transfer of recycled water from MNWD (3A Plant) for use in the CSJC service area. Not counted as additional production.
- 2 Denotes recycled water purchased from SMWD Chiquita-WRP used in the CSJC service area. Not counted as additional production.
- 3 Denotes nondomestic groundwater produced from wells used for landscape irrigation.
- 4 IRWD production is from recycled water production, nonpotable water wells, and surface water impoundments
- 5 Denotes transfer of recycled water from SCWD (SOCWA CTP) for use in the MNWD service area. Not counted as additional production.
- Note: All of ETWD reclaimed water produced and used in Region 8.
- NR = No Report

Pretreatment Report

Agenda Item

5.E.

Legal Counsel Review: No

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report – August and September 2022
San Juan Creek Ocean Outfall
NPDES Permit #CA0107417 Order #R9-2012-0012
Aliso Creek Ocean Outfall
NPDES Permit #CA0107611 Order #R9-2012-0013

Summary of Program Activities

Staff continues to utilize the CA Manufacturers Directory, submitted will serve notices, and business licensing data to identify industrial users (IUs) and update each member agency (MA) industrial waste survey (IWS) spreadsheet. Additionally, Dental Users continue to submit One-Time Compliance Reports and Staff is noting as received. Please see “Summary of IWS Activities” table below.

In compliance with the recently issued NPDES Permits for the Aliso Creek Ocean Outfall (ACOO-R9-2022-0006) and San Juan Creek Ocean Outfall (SJCOO-R9-2022-0005), SOCWA is in process of performing an evaluation of its local limits to ensure they are still protective of treatment plant processes. Staff is calculating and comparing MAHL loadings from 2019-2021 against the original or re-calculated MAHL loadings for each pollutant at all nine treatment plants. SOCWA may be reaching out to MA Staff to request additional data if needed. The evaluation is due to State Staff by October 28, 2022. A copy of the final evaluation report will be distributed to MA Staff upon submittal.

Permit Related Activities

The following Wastewater Discharge (WD) Permits, Special Wastewater Discharge (SWD) Permits, Nuisance Water-Special Wastewater Discharge (NSWD) Permits, Non-Industrial Wastewater Discharge (NIWD) forms, and BMP letters were issued or are in the process of being drafted for issuance:

ETWD – NIWD Form No. ETWD-1-001 for a Shell Gas Station Carwash – Staff assisted in the drafting of a Non-Industrial Wastewater Discharge (NIWD) Form for a new carwash located at 24202 Moulton Parkway. The car wash requires installation of a new clarifier. Once ETWD Staff approves the design, SOCWA will issue the NIWD Form with required BMPs.

SCWD – NSWD Permit No. SCWD-N4-010 for Three Arch Bay – Staff is working with SCWD and Three Arch Bay Staff to modify the existing NSWD Permit to add three new dry weather diversion

connection points. SCWD is presently drafting an Amendment to the existing Agreement between SCWD and TAB.

SCWD - Burnham-Ward Properties LLC - The County of Orange - Dana Point Harbor Revitalization Project – On July 26, 2022, Staff received a SWD Permit Application to discharge water encountered during construction activities over a three-year period starting late October 2022. SOCWA provided a response letter to the application on September 19, 2022, stating concerns and a request for additional documentation and data.

SOCWA – SWD Permit No. SOCWA-4-003-09-25 for the SMWD Groundwater Recovery Plant (GWRP) located in CSJC – Staff modified the SMWD GWRP on September 1, 2022, to include TDS and TSS as parameters to sample and measure for as part of the monthly monitoring requirements.

IRWD – WD Permit No. IRWD-2-001-10-27 for Herbalife located at located at 20481 Crescent Bay Drive, Lake Forest, CA 92630 – Based on inspection findings on July 14, 2022, which showed scouring of the sewer collection system due to pH range non-compliance, Staff directed the facility to submit a permit application. A WD Permit application was received on August 19, 2022. Staff finalized a draft permit on September 9, 2022, and as a courtesy, sent the draft permit to Herbalife Staff to review prior to finalizing and sending to IRWD Staff for review and signature. SOCWA Staff is aiming to issue the permit in early October. The permit requires daily monitoring for flow and pH and monthly monitoring for TDS, TSS, BOD, and COD.

Trainings and Committee Meetings Attended

SOCWA Staff continues to attend monthly OC Strike Force Meetings to receive and share legal information related to environmental cases and incidents throughout the county.

Staff attended a *Plan Reading, and FOG Removal Devices* CWEA P3S Environmental Compliance Inspection (ECI) virtual training event on September 1, 2022.

Inspections

SOCWA Staff has the process of conducting its required annual site inspections and monitoring/sampling of all SIU/CIU's in the SOCWA service area. This is a required activity of the SOCWA pretreatment program. The information and data obtained from these required activities will be incorporated into the SOCWA Pretreatment Annual Report.

CSC – On March 23, 2022, Staff inspected FreshRealm located at 1330 Calle Avanzado. The site was required to implement equipment and procedures for daily measuring of process wastewater pH and flow. Due to supply chain issues, the deadline for completion was extended. SOCWA Staff reached out to the site contact on August 26, 2022 and confirmed that the flow meter purchased was not adequate. Copy of the original purchase order, supporting emails, acknowledgment of replacement unit and manual daily meter readings were provided by email. Staff will follow-up with the site in early October.

CSC – On August 25, 2022, Staff jointly inspected Drift Distillery with Jon Kinley from Environmental Compliance Inspection Services (ECIS). Inspection findings yielded no major concerns. The site is engaged in small craft distilling and per fire code requirements, stores no more than 240 gallons of alcohol in stainless steel vats. The owners were made aware of sewer

prohibitions and are required to log daily discharge flow and pH, keep records on-site and make them available upon request.

Enforcement

SMWD - On August 16, 2022, Staff issued a Notice of Non-Compliance (NON) to Applied Medical's rubber manufacturing facility (Permit No. SMWD-1-003) for exceedance of zinc at Sampling Location 002 on July 5, 2022. The sampling was associated with facility permit compliance and the August SMR reporting period. Discharge ceased from Location 002 on July 8, 2022, and the facility began hauling all wastewater while the system equipment was cleaned. On August 16, 2022, Staff SOCWA Staff performed a second sampling event at Location 002 on August 18, 2022, and all results were compliant with permit limits. SOCWA considers this enforcement action resolved.

CSC - On August 18, 2022, Staff issued a Warning Notice of Non-Compliance (WNON) to both Custom Flavor's locations for not sampling in July 2022. Two samples were collected in August 2022 and all measurements were compliant with permit limits. SOCWA considers this enforcement action resolved.

SMWD – On September 19, 2022, Staff issued a WNON to the Lake Mission Viejo Advanced Purified Water Treatment Facility (APWTF) for failing to collect a sample during the August 2022 reporting period due to an abrupt halt of operations in response to State water conservation measures. A sample was collected from the brine reservoir tank on September 1, 2022, and all measurements were compliant with permit limits. SOCWA considers this enforcement action resolved.

Summary of IWS Activities in SOCWA's Service Area - YTD through September 21, 2022

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSEs	DSEs	Closed	Enforcement	Total IUs
CLB (S)	10	3	2	5	8	110	15	0	0	128
CSC (S)	33	10	35	18	181	1265	37	0	2	1546
CSJC (S)	44	2	27	59	137	1674	28	5	1	1927
ETWD (M)	41	3	87	0	262	132	50	0	0	487
EBSD (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	11	4	51	21	63	914	18	0	2	1071
MNWD (S)	207	5	120	38	639	2112	149	20	0	3063
SMWD (S)	140	6	19	20	212	815	51	12	2	1123
SCWD (S)	13	8	33	7	148	186	15	9	1	397
TCWD (S)	0	0	11	0	7	33	2	0	0	51
SOCWA (S)	0	8	1	0	0	0		0	2	9
Totals	499	50	386	168	1657	7241	365	46	10	9803

(S) = SOCWA conducts PT program
(M) = MA conducts PT program /w SOCWA
(U) = Urban Diversion Only

NIWD = Non-industrial Waste Discharger
BMP = Best Management Practices
FSE = Food Service Establishment

YTD = Year to Date
OSE = Other Surveyed Establishment
DSE = Dental Surveyed Establishment

Agenda Item

7.F.

Budgeted: \$92,128

Line Item: PC-2,15, and 17 Line 5076

Legal Counsel Review: No

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Rockwell TechConnect Support Agreement Annual Renewal (via OneSource Distributors Inc.) for \$56,891.52 [Project Committee Nos. 2, 15, and 17]

Summary

This agenda item provides a recommendation for awarding a contract for the annual renewal of the SCADA system operating licenses for the three Treatment Plants.

Discussion/Analysis

The SCADA system for the Treatment Plants monitors many of the Treatment Plants' processes, allows operators to change set points, and notifies O&M staff when operating parameters are out of designated ranges.

This vital system's cost exceeded the General Manager's purchasing authority of \$50,000 for the first time. OneSource Distributors Inc. is the authorized vendor of the Rockwell system employed at SOCWA and is the only vendor available to SOCWA for this renewal. This and other related SCADA expenses are budgeted in the SCADA Infrastructure lines for Project Committee Nos. 2 (JBL), 15(CTP), and 17(RTP).

Prior Related Project Committee (PC) or Board Action(s)

None

Fiscal Impact

The allocation by Member Agency is presented below:

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PC2-JBL	Total	Common Allocation
MNWD	\$4,238.42	22.35%
SCWD	\$4,630.97	24.42%
SMWD/CSJC	\$10,094.45	53.23%
Subtotal	\$18,963.84	100.00%

PC15-CTP	Total	Liquids/ Common Allocation
CLB	\$7,189.19	37.91%
EBSD	\$567.02	2.99%
MNWD	\$5,546.92	29.25%
SCWD	\$5,660.71	29.85%
Subtotal	\$18,963.84	100.00%

PC17-RTP	Total	Common Allocation
CLB	\$1,189.03	6.27%
EBSD	\$62.58	0.33%
ETWD	\$1,945.69	10.26%
MNWD	\$14,816.45	78.13%
SCWD	\$950.09	5.01%
Subtotal	\$18,963.84	100.00%

Agency Totals	Total
CLB	\$8,378.22
EBSD	\$629.60
ETWD	\$1,945.69
MNWD	\$24,601.79
SCWD	\$11,241.77
SMWD/CSJC	\$10,094.45
Totals	\$56,891.52

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to execute the Rockwell TechConnect Support Agreement with OneSource Distributors Inc. to renew SOCWA's Annual SCADA system licenses in the amount of \$56,891.52.

Agenda Item

7.G.

Board of Directors Meeting

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACTS: David Baranowski, Director of Engineering

SUBJECT: Capital Improvement Program Status Report (*September*)

The status of the SOCWA Capital Improvement Program is presented in the tables on the following pages.

Below are updates from the month of September for the major construction projects currently underway at SOCWA facilities.

J.B. Latham Package B

Plant 1 Basin Repairs, DAF Rehabilitation, Energy Building seismic retrofit, and minor rehabilitation of Digester 4:

Work continues on DAFT No. 1 including installation of pressurization pump and piping. Work on Digester No. 2 is progressing with installation of pinch valves, piping and supports. The boiler arrived on site and installation has begun, which includes boiler piping, tie-in to the existing hot water loop, startup, and testing. This is the last major piece of equipment that will be installed for this project.



New boiler in the Energy Recovery Building

Environmental Mitigation for the Coastal Treatment Plant Sludge Force Main Replacement Project

Restoration and improvements around Aliso Creek as required by the construction permits for the replacement of the force main from the Coastal Treatment Plant to the Regional Treatment Plant:

The area disturbed by construction has been reseeded with native species and is being monitored by a team of biologists. Weeds are being removed that could hinder native plant growth. SOCWA staff is coordinating with the CA Coastal Commission to begin the mitigation phase of the project.



Reseeded area (light brown) adjacent to trail

Regional Treatment Plant Aeration Diffusers Project

Install new diffusers in all six (6) aeration tanks:

The new diffuser system has been installed and is operating in all six aeration basins. The contractor has demobilized and the project is in the closeout stages.



Aeration basin operating with new diffusers and new air header

SOCWA CIP Workplan

Project Number	Project Name	FY 23 Budget	Status	FY 2022/2023				FY 2023/2024			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 2 - J.B. Latham Treatment Plant											
3220/3231/3287 /32211L/ 32212L	Facility Improvements B	\$ 1,674,581	In Construction	C	C						
3221 & 32228L & 3215 & 3252 & 32231L	Electrical System Upgrades	\$ 1,233,042	In Design	D	D	B&A	C	C	C	C	C
3222 & 3234	Centrate Piping Reconstruction	\$ 312,074	In Design	D	B&A	C	C				
3285/32234L/ 32226L/3253	Gate and Piping Rehabilitations	\$ 871,872		P	P	D	D	B&A	C	C	
3216 & 32225S & 32232C & 32235S	Misc. Roofing Rehabilitations	\$ 997,000				D	D	C	C	C	C
PC 5 - San Juan Creek Ocean Outfall											
56221O	Outfall Port Cleaning	\$ -	Bidding	ENV	ENV						
36221O	Surge System Air Valve Replacement	\$ 39,064					C	C			
46211O	Land Outfall Facility Condition Assessment	\$ 52,326				CA	CA				
46221O	Marine Outfall Core Sample and Condition Assessment	\$ 90,000				CA	CA				
PC 15 - Coastal Treatment Plant											
3541-000	Export Sludge System Construction (2020)	\$ 438,870	Pipe Complete / Mitigation work ongoing	ENV	ENV	ENV	ENV	ENV	ENV	ENV	ENV
35228L	Aeration Blower System Upgrades	\$ 1,250,000	Diffusers purchased. In Design	D	D	B&A	C	C	C	C	
3544	Aeration System Upgrades	\$ 352,056				D	D	D	D	D	D
3525-000	Personnel Building Reconstruction	\$ 308,632	In Design	D	D	B&A	C	C	C		
35220L	Fiber Installation to Alicia Parkway	\$ -	Working with ISP	P	P	P					
3522AL	Drainage Pump Station	\$ 125,000				D	D	D	D	B&A	C
35229L /35238L	Odor Control Scrubber/Foul Air System Reconstruction	\$ 405,422				D	D	B&A	C	C	C
35238L	Influent Flow Meters	\$ 250,000			P	P	C				
35239L	West Secondary Scum Skimmers	\$ 300,000				P	D	B&A	C		

SOCWA CIP Workplan

Project Number	Project Name	FY 23 Budget	Status	FY 2022/2023				FY 2023/2024			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 17 - Regional Treatment Plant											
3753	Aeration Diffuser Upgrade (2020)	\$ -	Construction Complete	C	C						
3722AL/C/S	MCC A, C, G, H Replacement	\$ 1,261,580	Preliminary Design Underway	D	D	D	D	D	D	D	D
3758/3759	AWT No.2 Reconstruction (2020)	\$ 2,153,826	In Design	D	D	B&A	C	C	C	C	C
47224C	Consequence of Failure Analysis	\$ 75,000	Project Underway	P	P	P	P				
3742	Aeration System Upgrades	\$ 2,351,036				D	D	D	D	D	D
37230C	Admin. Bldg. Door and Window Repair	\$ 60,000					D	D	C	C	C
PC 21 - Effluent Transmission Main											
3107-000 (B/C/D) / 3108-000 (E)	Air Valve Replacement Construction (D) (2021)	\$ 576,736	In Design	D	D	B&A	C	C	C		
3101/31221B	Trail Bridge Crossing (D)	\$ 156,074	EIR being prepared	D	D	D	D				
PC 24 - Aliso Creek Ocean Outfall											
3480	Internal Seal Replacement	\$ 60,100	In design	P	P	P	P	P	P	P	P
34231O	Metering and Sampling	\$ 66,964		P	P	C					
54221O	Outfall Port Cleaning	\$ -		ENV	ENV						

P	Planning
CA	Condition Assessment
ENV	Environmental/Permitting
D	Design
B&A	Bidding and Award
C	Construction
P	Procurement

Agenda Item

7.H.

Board of Directors Meeting

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: David Baranowski, Director of Engineering

SUBJECT: Capital Improvement Construction Projects Progress and Change Order Report (*September*) [Project Committee Nos. 2, 15 & 17]

Overview

Active Construction Project Updates:

Attached are the updated CIP progress reports. Please note that there is one new change order for JR Filanc for the RTP Aeration Diffuser project totaling \$0.

This is informational for PC 2 and PC 15 member agencies.

Recommended Action: The Engineering Committee recommends that the PC 17 Board of Directors approve the following JR Filanc Change Orders:

- Change Order 4 for \$0, including 234 additional day(s)

For a total of \$0 with 234 additional days, and a revised contract value of \$1,812,531.02 for the RTP Aeration Diffuser Project.

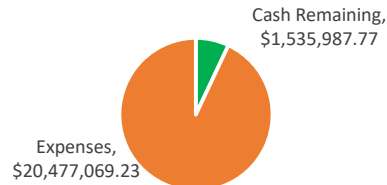
Project Financial Status

Project Committee	2
Project Name	Package B
Project Description	Plant 1 basin repairs, DAF rehabilitation, Energy Building seismic retrofit and minor rehabilitation, Digester 4 rehabilitation

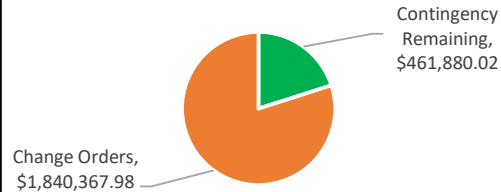
Data Last Updated

August 29, 2022

Cash Flow



Contingency



Cash Flow

Collected	\$ 22,013,057.00
Expenses	\$ 20,477,069.23

Project Completion

Schedule	95%
Budget	87%

Contracts

Company	PO No.	Original	Change Orders*	Amendments	Total	Invoiced
Olsson	13497	\$ 17,325,000.00	\$ 892,037.97		\$ 18,217,037.97	\$ 16,171,947.79
Butier	13647	\$ 895,727.00		\$ 1,005,251.00	\$ 1,900,978.00	\$ 1,637,919.50
Carollo	13616	\$ 846,528.00		\$ 616,037.00	\$ 1,462,565.00	\$ 1,195,668.86
TetraTech	13605	\$ 94,000.00		\$ -	\$ 94,000.00	\$ 93,344.70
Ninyo & Moore	14279	\$ 49,399.00		\$ 30,000.00	\$ 79,399.00	\$ 43,478.27
ADS Environmental	16452	\$ 107,200.00	\$ -		\$ 107,200.00	\$ 43,875.00
Hallsten	16578	\$ 251,422.00	\$ 16,715.25		\$ 268,137.25	\$ -
Dudek	17401	\$ 48,360.00		\$ -	\$ 48,360.00	\$ 27,590.00
		\$ 19,617,636.00	\$ 908,753.22	\$ 1,651,288.00	\$ 22,177,677.22	\$ 19,213,824.12

*Values include change orders to be reviewed by Engineering Committee and deductive change orders

Contingency

Area	Project Code	Amount **	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$ 719,679.00	\$ 669,491.72	\$ 50,187.28	93.0%
Common	3231-000	\$ 38,120.00	\$ 3,305.76	\$ 34,814.24	8.7%
Solids	3287-000	\$ 1,544,449.00	\$ 1,167,570.50	\$ 376,878.50	75.6%
		\$ 2,302,248.00	\$ 1,840,367.98	\$ 461,880.02	79.9%

** Amount reflects contingency for Construction Contracts only

Summary of New Change Orders

Change Order No	CSJC	MNWD	SCWD	SMWD	\$ Amount
Grand Total					

Change Orders and Amendments

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
Approved by Board of Directors					191	\$ 2,560,041.22
1	Olsson	3287-000	Addition of Loop Piping to the Existing Hot Water Lines Adjacent to Digester 3	12/12/2019	0	\$ 4,725.00
2	Olsson	3287-000	Asbestos Gaskets in Boiler hazardous disposal	6/4/2020	0	\$ 6,343.10
3	Olsson	3287-000	Add Analog Infrastructure and Cabling	6/4/2020	11	\$ 37,969.60
4	Olsson	3287-000	Digester 4 Coating Additional Sealant	6/4/2020	3	\$ 24,001.54
5	Olsson	3220-000	Valve Handwheel Ergonomic extension	8/6/2020	28	\$ 16,370.30
6	Olsson	3287-000	Change to DeZurik Plug Valves to match existing	8/6/2020	90	\$ 41,993.87
7	Olsson	3287-000	Digester 4 Additional Concrete Repair	8/6/2020	3	\$ 7,412.74
8	Olsson	3287-000	Repair Existing Damaged Electrical Box	8/6/2020	0	\$ (1,829.00)

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
9	Olsson	3220-000	Change the Telescoping Valve Boxes and Piping from Carbon Steel to Stainless Steel	8/6/2020	0	\$ 18,677.63
10	Olsson	3287-000	Duct bank J Interferences	12/17/2020	18	\$ 73,639.42
11	Olsson	3220-000	Blasting of Existing Influent Pipe Spools	12/17/2020	5	\$ 20,868.52
12	Olsson	3220-000	Duct bank K Interferences	12/17/2020	0	\$ 15,567.08
13	Olsson	3287-000	Digester 3/4 PLC Relocation	12/17/2020	14	\$ 41,367.51
14	Olsson	3287-000	Digester 4 Additional Tank Repair	12/17/2020	18	\$ 33,642.75
15	Olsson	3220-000	Duct bank O Interferences	12/17/2020	0	\$ 1,686.88
16	Olsson	3287-000	Digester 3/4 Control Building Roof Replacement	2/4/2021	0	\$ 42,780.00
17	Olsson	3287-000	MCC-D1 Modifications due to Change in Motor Size	5/6/2021	0	\$ 34,392.02
18	Olsson	3287-000	Integrator Additional Site Visits	5/6/2021	0	\$ 7,571.97
19	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	6/3/2021	0	\$ 29,417.20
20	Olsson	3220-000	Overhead Walkway Removal at Plant 1 Secondary Basins 5 through 9	6/3/2021	0	\$ 62,113.50

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
21	Olsson	3287-000	Cogeneration PLC Modifications and Integration	6/3/2021	0	\$ 42,922.67
22	Olsson	3220-000	Plant 1 Secondary Basins UV Rated Wear Strips	9/2/2021	0	\$ 28,965.33
23	Olsson	3287-000	MCC-F1 Design Change	9/2/2021		\$ 481,290.42
24	Olsson	3287-000	DAF 2 Investigation Work and Inspection Blast	10/7/2021		\$ 67,838.71
25	Olsson	3287-000	New Fiber Conduit in West Blower Building	10/7/2021		\$ 4,957.71
26	Olsson	3220-000	Plant 1 Primary Basin Conduit Obstruction	10/7/2021		\$ 8,444.20
27	Olsson	3220-000	Plant 1 Influent Channel Additional Coating between Primary Basins 5 and 6	10/7/2021		\$ 15,469.98
28	Olsson	3287-000	MCC-F1 Lighting Changes	10/7/2021		\$ 7,843.04
29	Olsson	3287-000	Digester 3 Ground Rod	10/14/2021		\$ 7,269.16
30	Olsson	3220-000	New Fiber Conduits at East Electrical and Storm Water Buildings	10/14/2021		\$ 8,045.43
31	Olsson	3220-000	Plant 2 Primary Influent Channel Repair Credit	12/9/2021		\$ (15,903.00)
32	Olsson	3220-000	Plant 1 and 2 Telescoping Valve Pipe Supports	12/9/2021		\$ 6,132.27

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
33	Olsson	3287-000	4" Gas Line Routing Modifications	12/9/2021		\$ 18,146.07
34	Olsson	3287-000	Gas Mixer Conduit Conflict	12/9/2021		\$ 12,383.89
35	Olsson	3220-000	P1 Primary Tanks 5 and 6 Temporary Power	3/10/2022		\$ 7,256.05
36	Olsson	3220-000	P1 Primary Tanks Skimmers Starter Modification	3/10/2022		\$ 45,374.13
37	Olsson	3220-000	P1 Primary Tanks Hopper Wall Coating	3/10/2022		\$ 34,505.41
38	Olsson	3220-000	P1 Effluent Channel Conduit Conflict	3/10/2022		\$ 9,274.98
39	Olsson	3220-000	P1 Primary Tanks Torque Limit Switch	3/10/2022		\$ 7,149.86
40	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	3/10/2022		\$ (2,309.09)
41	Olsson	3287-000	DAFT 2 Repair	3/10/2022		\$ 59,403.53
42	Olsson	3287-000	Digesters 1 and 2 Heat Exchanger Layout Reconfiguration Electrical	6/2/2022	1	\$ 12,885.18
43	Olsson	3287-000	Digester 3 Heat Exchanger Hot Water Loop Tie-In	6/2/2022		\$ 2,774.58
44	Olsson	3220-000	Plant 1 Primary Basin 1 Shutdown Repair Work	6/2/2022		\$ 1,009.86
45	Olsson	3287-000	Replace Compressor Line and Valve at Digester 4	6/2/2022		\$ 10,762.85

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
46	Olsson	3220-000	Plant 2 Influent Gates Removal and Concrete Demo	6/2/2022		\$ 5,389.66
47	Olsson	3287-000	DAFT 2 Launder Support Detail	6/9/2022		\$ 45,682.30
48	Olsson	3220-000	Plant 1 Primary Basins 1, 2, 5 and 6 Coating Removal	6/9/2022		\$ 111,101.16
49	Olsson	3220-000	Plant 1 Primary Basins 1, 2, 5 and 6 Existing Equipment Removal and Reinstallation	6/9/2022		\$ 71,864.17
50	Olsson	3287-000	Digester Mixing Pumps Control Programming Change	8/4/2022		\$ 4,397.77
51	Olsson	3220-000	Plant 1 Primary Basins Skimmers I/O Connection and Programming Change	8/4/2022		\$ 14,237.83
52	Olsson	3287-000	Fiber Patch Cables to Connect the Centrifuge PLC to the Centrifuge Patch Panel	8/4/2022		\$ 3,755.90
53	Olsson	3220-000	Plant 1 Primary Basins 3 and 4 Coating Removal	8/4/2022		\$ 43,222.24
54	Olsson	3220-000	Plant 1 Secondary Basins Concrete Structural and Basins 2 and 3 Drive Plate Rework	8/4/2022		\$ 20,860.16

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
55	Olsson	3220-000	Plant 2 Primary Basins Repair and Rehab of Head-Shaft Bearings	8/4/2022		\$ 4,618.44
56	Olsson	3231-000	Board SOCWA Front Office with Plywood to Cover Windows	8/4/2022		\$ 3,305.76
57	Olsson	3220-000	Seal the Openings at Plant 1 Primary Influent and Effluent Channels	8/4/2022		\$ 25,491.03
58	Olsson	3220-000	Plant 1 Primary Basins 3 and 4 Existing Equipment Removal and Reinstallation	9/1/2022		\$ 26,498.32
59	Olsson	3220-000	Plant 1 Secondary Basins Existing Embedded Metal Plates	9/1/2022		\$ 4,290.48
60	Olsson	3220-000	Plant 2 Primary Baffle Frame Replacement	9/1/2022		\$ 18,291.57
1CM Common	Butier	3231-000	CM Change Order No. 1	7/13/2021		\$ 48,995.00
1CM Liquids	Butier	3220-000	CM Change Order No. 1	7/13/2021		\$ 294,125.00
1CM Solids	Butier	3287-000	CM Change Order No. 1	7/13/2021		\$ 269,595.00
1ESDC Common	Carollo	3231-000	ESDC Change Order No. 1	6/3/2021		\$ 18,210.00
1ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 1	6/3/2021		\$ 109,256.00
1ESDC Solids	Carollo	3287-000	ESDC Change Order No. 1	6/3/2021		\$ 100,151.00

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
1G Common	Ninyo & Moore	3231-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 5,400.00
1G Liquids	Ninyo & Moore	3220-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 12,300.00
1G Solids	Ninyo & Moore	3287-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 12,300.00
2CM Liquids	Butier	3220-000	CM Change Order No 2	5/12/2022		\$ 196,268.00
2CM Solids	Butier	3287-000	CM Change Order No. 2	5/12/2022		\$ 196,268.00
2ESDC Common	Carollo	3231-000	ESDC Change Order No. 2	12/9/2021		\$ 11,075.00
2ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 2	12/9/2021		\$ 196,440.00
2ESDC Solids	Carollo	3287-000	ESDC Change Order No. 2	12/9/2021		\$ 180,905.00
Duduct-Common	Olsson	3231-000	Energy Building Monorail System Descope (F1-F4)	8/4/2022		\$ (70,585.34)
Duduct-Liquids	Olsson	3220-000	Effluent Pump Station Descope (A1-A6)	8/4/2022		\$ (483,605.73)
Duduct-Solids	Olsson	3287-000	Energy Building Modifications Descope (G1-G2, & H1-H2)	8/4/2022		\$ (357,382.60)
HAL 01	Hallsten	3220-000	Cover Layout Modifications	8/4/2022		\$ 16,715.25
Potential Change						\$ 419,427.42
PCO 002	Olsson	3287-000	Digester 4 Rail Coating	(blank)		\$ (1,000.00)
PCO 004	Olsson	3287-000	Digester 4 Control Narrative	(blank)		\$ 5,000.00
PCO 005	Olsson	3287-000	TWAS Slab Modifications	(blank)		\$ 50,000.00
PCO 009	Olsson	3287-000	PLC East Headworks Integration	(blank)		\$ 10,000.00

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
PCO 018	Olsson	3287-000	Pothole Electrical Rack 2'x2' footing to identify conflict for Ductbank L	9/8/2022		\$ 2,200.99
PCO 026	Olsson	3287-000	Gas Hatch Lids Mating Connection	(blank)		\$ 7,771.00
PCO 039	Olsson	3220-000	Diversion Structure Gate Actuator Power Feed Replacement	8/13/2020		\$ 5,000.00
PCO 050	Olsson	3220-000	Telescoping Valves Rework	12/23/2020		\$ 27,884.00
PCO 066	Olsson	3287-000	DAFT 1 Repair	(blank)		\$ 60,000.00
PCO 081	Olsson	3220-000	Plant 1 Primary Influent Channel Additional Cleaning	7/27/2022		\$ 19,667.41
PCO 087	Olsson	3220-000	Plant 1 Primary Basins Crack Injection	7/18/2022		\$ 77,641.65
PCO 092	Olsson	3287-000	Hot Water System Expansion Tank	8/31/2021		\$ 5,000.00
PCO 094	Olsson	3287-000	Additional Red Coloring Agent to Concrete	9/1/2021		\$ 5,000.00
PCO 095	Olsson	3287-000	Foul Air Rerouting at DAFT 2	9/2/2021		\$ 5,000.00
PCO 097	Olsson	3287-000	Digester Hot Water Temperature Gauge Setting	9/15/2021		\$ 5,000.00
PCO 098	Olsson	3220-000	Plant 1 Bypass pumping Change	10/12/2021		\$ 74,226.27
PCO 113	Olsson	3287-000	Field Wiring Solenoid Valve for DAFT 2 Pressurization System	3/15/2022		\$ 25,061.07

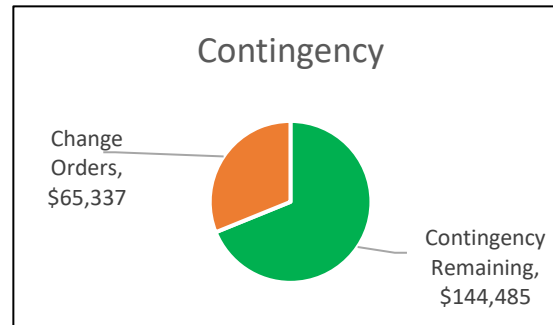
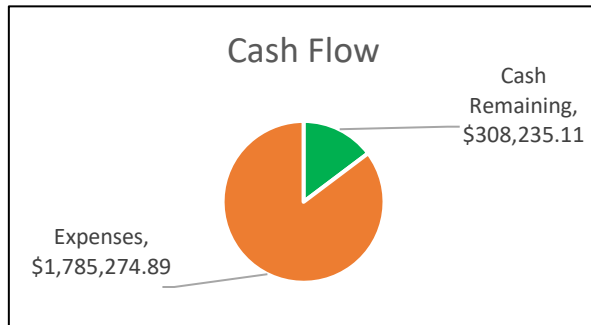
<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
PCO 115	Olsson	3220-000	Plant 1 Primary Basins and Channels Additional Solids Removal	7/27/2022		\$ 41,181.11
PCO 120	Olsson	3287-000	DAFT Grout Removal and Replacement Credit	8/17/2022		\$ (10,295.53)
PCO 136	Olsson	3220-000	Plant 1 Primary Effluent Channel concrete repair work	9/8/2022		\$ 5,089.45
Grand Total					191	\$ 2,979,468.64

Project Financial Status

Project Committee	17
Project Name	Aeration Diffuser Replacements
Project Description	Replacing panel diffusers with disc diffusers in all six aeration basins. Includes replacement of drop pipes and air distribution piping inside the basins.

Data Last Updated

August 29, 2022



Cash Flow

Collected	\$ 2,093,510.00
Expenses	\$ 1,785,274.89

Project Completion

Schedule	97%
Budget	95%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Invoiced
Filanc	16306	\$ 1,747,194.00	\$ 65,337.02		\$ 1,812,531.02	\$ 1,749,880.02
Lee & Ro	16119	\$ 37,738.00		\$ -	\$ 37,738.00	\$ 16,304.47
					\$ -	\$ -
		\$ 1,784,932.00	\$ 65,337.02	\$ -	\$ 1,850,269.02	\$ 1,766,184.49

**Values include change orders to be reviewed by Engineering Committee and deductive change orders*

Construction Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3753-000	\$ 209,822.00	\$ 65,337.02	\$ 144,484.98	31.1%
		\$ 209,822.00	\$ 65,337.02	\$ 144,484.98	31.1%

Change Orders

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Amount</u>	<u>Days</u>
Within Contingency, reviewed by Engineering Committee					\$ -	234
04	Filanc	3753-000	Diffuser Delivery Time Extension	3/30/2022	\$ -	234
Approved by Board of Directors					\$ 65,337.02	0
01	Filanc	3753-000	Corroded Grating Angle Replacement	9/1/2022	\$ 5,748.01	0
02	Filanc	3753-000	Diffuser Support Modifications (Supply Chain Issue)	9/1/2022	\$ 21,437.52	0
03	Filanc	3753-000	Air Header Insulation	9/1/2022	\$ 38,151.49	0
Grand Total					\$ 65,337.02	234

Agenda Item

8.A.

Budgeted:

Budget amount: n/a

Line Item: PC 2

Legal Counsel Review: No

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: David Baranowski, Director of Engineering

SUBJECT: JB Latham Treatment Plant Package B Liquids Contingency Increase
[Project Committee 2]

Overview

SOCWA staff have updated the Engineering Committee on the progress of the J.B. Latham Package B Project (Project), as well as some of the challenges encountered on the Project. As reported in the most recent Capital Improvement Construction Report and in Table 1 below, the Liquids portion of the Project is nearly out of contingency. We are requesting the approval of additional contingency for the Liquids portion of the Project to cover any new contractor change orders.

Table 1 – Package B Contingency

Area	Project Code	Contingency Amount	Change Orders	Remaining Contingency	Percent Used
Liquids	3220-000	\$719,679.00	\$669,491.72	\$50,187.28	93.0%
Common	3231-000	\$38,120.00	\$3,305.76	\$34,814.24	8.7%
Solids	3287-000	\$1,544,449.00	\$1,167,570.50	\$376,878.50	75.6%
Total		\$2,302,248.00	\$1,840,367.98	\$461,880.02	79.9%

The contingency for this project has a complicated history. Previously, \$294,125 for Amendment 1 for Butier Engineer's Construction Management Services was allocated against the Package B Liquids contingency. Similarly, \$109,256 for Amendment 1 and \$196,440 of Amendment 2 for Carollo Engineer's Engineering Services during Construction (ESDC) were allocated against the Package B Liquids contingency. Additionally, \$12,300 for Amendment 1 for Ninyo & Moore geotechnical services was allocated against the Package B Liquids contingency. This resulted in staff requesting contingency increases already.

After discussing with the PC 2 Engineering Committee members on May 11, 2022, it was agreed upon that consultant amendments should be presented separately from the contractor change orders. Therefore, \$612,121 of the previously requested Liquids contingency was allocated to consultant amendments instead of the contractor change orders. This left \$719,679 in contractor Liquids contingency.

The original contract value for Liquids construction was \$7,710,000. The original Liquids contingency was 8% of the original contract (\$616,800). The revised Liquids contingency for contractor change orders of \$719,679 equates to 9.3% of the original contract value.

Staff is requesting an increase in Liquids contingency of \$250,000, which will bring the revised Liquids contingency (for contractor change orders) to \$969,697, equal to 12.6% of the original Liquids construction contract value.

The requested increase is based on the estimated \$240,600 in potential Liquids change orders shown in Table 2. The Liquids portion of the work is nearly complete, and we don't foresee needing any additional contingency.

Table 2 – Potential Change Orders for Package B Liquids

PCO Number	Project ID	Description	Status	Amount
PCO 081	3220-000	Plant 1 Primary Influent Channel Additional Cleaning	Potential Change	\$19,667
PCO 087	3220-000	Plant 1 Primary Basins and Channels Crack Injections	Potential Change	\$77,642
PCO 050	3220-000	Telescoping Valve Rework	Potential Change	\$27,884
PCO 098	3220-000	Bypass Pumping Change	Potential Change	\$74,227
PCO 115	3220-000	Plant 1 Primary Basins and Channels Additional Solids Removal	Potential Change	\$41,181
Total				\$240,600

Fiscal Impact

As stated above, the current estimate for potential change orders is \$240,600 for the Liquids portion of the Project, but there is only \$50,187.28 remaining in the Liquids contingency. Change Orders against the contingency will be presented to the Engineering Committee. Table 3 shows the agency allocation for the requested Liquids contingency.

Table 3 – Agency Allocation for the Requested Contingency

Member Agency	3220-000 Facility Improvements B- Liquids Improvements
CSJC	\$76,925
MNWD	\$57,700
SCWD	\$72,100
SMWD	\$43,275
Total	\$250,000

Recommended Action: The Engineering Committee recommends that the PC 2 Board of Directors approve the addition of \$250,000 of contingency to the JB Latham Package B Liquids Improvements (3220-000).

Agenda Item

9.A.

Budgeted: Yes

Line Item: PC15 Small Capital

Legal Counsel Review: No

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Small Capital Automatic Self-Cleaning Strainer Model A for \$52,779.00
(plus tax, shipping, and fees) [Project Committee 15]

Summary

This agenda item provides a recommendation for awarding a small capital project purchase to replace a Model A Kinney Automatic Self-Cleaning Strainer at CTP. The total cost for the equipment is \$52,779.00 plus tax, shipping, and fees.

Discussion/Analysis

SOCWA needs to replace a failing process water system strainer. The strainer was budgeted for replacement in FY 2022-23 under a small capital project. The strainer is beyond the end of its useful life and is starting to fail. The strainer cleans secondary effluent used for pump seal water, hosing, and other treatment needs instead of using potable water.

S.P. Kinney is the only available vendor to SOCWA for purchasing the replacement strainer. SOCWA O&M staff will install the strainer once delivered. The control panel is also being replaced under this project.

Fiscal Impact

This capital purchase is located in the liquids area of CTP. Therefore, the costs will be allocated using the liquids ownership allocations for CTP. The following are the cost allocations for the project:

PC15-CTP	Total	Liquids Allocation
CLB	\$20,008.52	37.91%
EBS	\$1,578.09	2.99%
MNWD	\$15,437.86	29.25%
SCWD	\$15,754.53	29.85%
Subtotal	\$52,779.00	100.00%

The actual shipping costs, fees, and additional tax will be added to the allocated costs using the solids ownership percentages shown above when the invoices are received.

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to purchase a Model A Kinney Automatic Self-Cleaning Strainer at CTP at the cost of \$52,779.00, plus shipping costs, fees, and additional tax that are determined at the time the units are shipped.

Agenda Item

9.B.

Legal Counsel Review: No

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Dina Ash, Human Resources Administrator

SUBJECT: Temporary Staffing Services

Summary

As set forth in the 2022/2023 budget assumptions, Administration has budget approval to utilize a part-time, temporary position for administrative support.

Discussion/Analysis

SOCWA staff has viewed agreements from AppleOne, Pride Staff and Robert Half. There is not much difference in the cost of temporary staff between these companies. AppleOne is preferred for their services provided and the talent they recruit.

Fiscal impact

The total value of the past contracts with AppleOne is nearing the \$50,000 amount.

Contract Labor/Temp Labor Fiscal Year 2022/2023 Budget, \$30,000

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to continue to use AppleOne Employment Services and execute the agreement not to exceed \$30,000 for 2022/2023.

Agenda Item

9.C.

Budgeted: Yes
Budget amount: \$32,578
Line Item: Operating Leases-01-6309-05
Legal Counsel Review: No
Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Matt Clarke, IT Systems Administrator
Amber Baylor, Director of Environmental Compliance

SUBJECT: New 5-Year Lease to Replace Two Xerox C60 MFPs with Two New Xerox 9070 MFPs

Introduction

The Xerox C60 units, located at the JB Latham administrative office will no longer receive service by 2024. MRC is the company that provides the maintenance and ongoing services for the current Xerox C60 units. MRC will not be able to provide service or supplies past 2024 due to the age of the machines. Also, the high cost of purchasing the existing to own is unfavorable at \$50,177.83. SOCWA does not have the resources to maintain end of life machines. The new lease provides an opportunity to gain savings and provide reliable services for administrative functions.

Summary

The updated 5-year lease will include the following items:

- 2 NEW Xerox C9070 copiers deployed to replace existing Xerox C60 models,
- Proposal provides **\$1,182.5/month savings**,
- NEW Xerox C9070 copiers will be placed on current Service Agreement and pull from existing BW/CLR Copier Allowance Plans,
- Reduced BW/CLR Copier cost per copy rates compared to existing service rates,
- All devices covered under MRC Service Agreement (All parts, remote analyst support, service and supplies included), and
- Pricing includes returning existing devices back to leasing company once lease term ends.

Discussion/Analysis

The two Xerox 9070s would have the same finishing upgrades which would provide printer redundancy that we don't have with the current C60 models currently in use at the JB Latham administrative office. For example, the Executive Assistant uses one of the current C60s for printing Board packets. If that C60 has issues or fails, the Executive Assistant cannot choose

another printer that has the same finishing capabilities which causes administrative inefficiencies. The two new Xerox 9070s provides redundancy in services.

Advisory Committee Review

No previous review for engagement to date.

Prior Related Project Committee or Board Action(s)

No previous related Board or Committee Actions.

Fiscal impact

- New lease for two Xerox 9070s would be \$3,471.27. This proposal provides **\$1,182.5/month savings.**

Recommended Action: Staff recommends that the Board of Directors approve the proposed 5-year contract with MRC/Xerox for two new Xerox 9070 MFPs.

Agenda Item

9.D.

Budgeted: No

Budget amount: N/A

Line Item: N/A

Legal Counsel Review: No

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Amber Baylor, Director of Environmental Compliance

SUBJECT: Stanford Wastewater Based Epidemiology SCAN Program Engagement
(Special Guest, Alexandria Boehm of Stanford University to attend meeting virtually)

Summary

At the 2022 CASA Conference, Alexandria Boehm, Engineering Professor at Stanford, provided a presentation on the past and current work on the Sewer Coronavirus Alert Network. The update included a request for sampling at facilities outside of the Bay Area. The SCAN program has private funding for support through January 2024 through Verily, a private company, backed by Alphabet, Inc. The cost for Member Agency engagement is for sampling and shipping three times per week to the contract lab for SCAN. There also may be potential for a stipend for this engagement. At the September 1, 2022, Board meeting, a review of the outcomes of the project was requested. Additionally, ethical concerns about the use of the data and privacy concerns are discussed below.

Discussion/Analysis

SOCWA began wastewater-based epidemiology (WBE) first through the commercial company, Biobot in March 2020. SOCWA then received support from South Coast Water District to sample for COVID-19 in the sewershed in partnership with the Orange County Health Care Agency who processed all the extracted samples and submitted the results to the Center for Disease Control and Prevention (CDC). There was no comprehensive report provided to date, only a dashboard that was created for this effort where real-time results could be viewed to understand trending. The dashboard also included variants that were starting to emerge.

The current effort would include SARS-COV-2 surveillance, influenza, and emerging trends in other public health strains, like monkeypox. To view the current WBE surveillance program and available dashboard for SCAN, please visit: <https://wastewaterscan.org/>

There are fifteen states, including California, in the SCAN program across the United States and eighteen sampling locations across California. The goal of the SCAN program is to further develop metrics to serve as an early warning indicator of emerging public health trends in the community. Due to the reduction in clinical testing, the SCAN program offers a tool for public health agencies and the community to understand what personal precautions that could be warranted in the local society based on emerging trends from the sewer network. SOCWA is

requesting guidance on engagement with the current 3 facilities and the other 7 wastewater facilities for a robust regional tool.

SOCWA conferred with representatives from Stanford and Verily on the intended outcomes of this project and if there were any legal challenges to the public facing use of the data. SOCWA also engaged with the CDC's National Wastewater Surveillance System's Community of Practice member on questions from the Chair of the State Water Resources Control Board on ethical concerns with the data. The Water Environment Federation provides industry best practice through the public facing Network of Wastewater Based Epidemiology website found here: https://nwbe.org/?page_id=77. WEF's ethical guidance for ethical use of the data relates the concerns to size of sewersheds with a relationship whereby sewersheds less than 3,000 people are not used in public facing data portals. This request is not less than 3,000 people.

At the September 1, 2022 meeting, SOCWA staff indicated that the use of the wastewater based epidemiology tools are an emerging public health best practice that are developing. Related to the outcomes of the testing, the WEF's NWBE website also includes the following: confirmation of clinical testing data, an early public health alert system, indication of presence of variants of concern, and shaping public health policies. SOCWA also conferred with City of Santa Cruz who utilize the data for public health decision making through contract with Verily and the use of their public health dashboard found here:

<https://cruzgis.maps.arcgis.com/apps/dashboards/4f080f826c2241c297cb5adab0a0baa0>.

By creating a predictable system of surveillance, the intended outcome of the SOCWA partnership with Verily is to provide data for the community and public health decision makers for early warning systems to protect members of the community that are most vulnerable in alignment with the protection of public health through engineered treatment systems.

The above links can be used to research data results within larger geographic areas.

Prior Related Project Committee or Board Action(s)

At the September 1, 2022, Board of Directors meeting, Chair Collings, requested more information about the goals and outcomes of the project which was included in this board report.

Fiscal impact

SOCWA samples the Regional, Coastal, and JB Latham facilities between 5 and 7 days a week depending on the facility's compliance needs. The SCAN project is requesting sampling three days per week. There will be minimal additional sampling time required and minimal administrative oversight due to the almost real-time results accessible through the public dashboard system.

Recommended Action: Staff is seeking recommendation from Member Agencies for expanding the previous CTP sampling, to the RTP, and the JBL facility. Staff is also seeking interested Member Agencies to partner on this effort for a regional sampling strategy for trends in coronavirus, influenza, and emerging communicable diseases in step with guidance from the CDC.

Attachment: Verily FAQ.

Wastewater Monitoring Q&As

WHAT IS WastewaterSCAN?

WastewaterSCAN is a national effort to provide a leading approach for monitoring diseases through communities' wastewater to inform public health responses locally and nationally. Scientists at Stanford University and Emory University, the life sciences company Verily, and local wastewater and public health officials partner to produce actionable data about COVID-19, Monkeypox, and other pathogens.

WHAT IS THE COST?

Philanthropic funding covers the full cost for sampling materials, shipping, and stipends to cover the labor cost to municipalities for taking samples through January 2024 and longer.

There is no cost for a city to participate. All of the instructions and materials needed by a city's wastewater treatment plant to collect and ship wastewater samples are provided at no cost by WastewaterSCAN. Samples are collected three times a week and shipped together to Verily for analysis. WastewaterSCAN also provides stipends to cover the cost of employees' time to collect and ship samples.

HOW MUCH EFFORT IS INVOLVED?

We prefer to collect and process wastewater-derived grab or composite solids from the sludge of the primary clarifier, as extraction and testing from solids has been shown to be more sensitive when detecting levels of SARS-CoV-2. However, our lab can also process settled solids from liquid influent by either sending us the resultant solids, or by sending the liquid influent itself (and accepting a lower stipend to offset additional shipping expenses).

Collection vessels will be provided for solids as two (2) 50 mL tubes per sampling, or for liquids as two (2) 500 mL vessels. If your facility would like to aid in the settling of solids from liquid influent, we will provide sedimentation equipment to settle out solids at your location.

Sampling is to be performed three (3) times a week. All packaging and postage will be provided and we ask to expedite sample shipping to preserve the quality of viral material within.

WHAT IS BEING PROBED AND DETECTED?

WastewaterSCAN provides public health data for the COVID-19 virus (technically, the genetic material or RNA of the SARS-CoV-2 virus) as well as other viruses, currently Influenza A, Monkeypox, and RSV. We also work with public health partners so that the information is useful and used.

HOW WILL I RECEIVE MY PLANT'S RESULTS?

A near real-time dashboard will be available via the web and is refreshed whenever new data is obtained. The data within will be comparable against local clinical cases, neighboring municipalities, and other comparators that will be useful to public health officials.

You may expect your plant's results 24-48 hrs after being received at our laboratories.

HOW DOES THIS DIFFER FROM OTHER LOCAL OR NATIONAL WASTEWATER PROGRAMS?

For the most part, data from wastewater monitoring across the United States is not comparable because different methods are used for analysis and reporting in each community.

WastewaterSCAN offers results that are comparable not only over time for each community, but also from place to place. This gives public health officials the best ongoing view of COVID-19 and other pathogens across the country, which will allow them to plan and to respond rapidly, when needed.

By testing solids that settle from wastewater, WastewaterSCAN's analysis is the most sensitive available. As a consequence, WastewaterSCAN's results have been shown to track very closely with the number and trends of clinical cases in a community. WastewaterSCAN test samples taken three times a week; the cadence of testing means changes in the presence of the virus are seen more quickly. The sampling may be similar to what is being done as part of regular plant operations and stipends available may defray the cost for existing and new sampling.

The CDC's NWSS is a clearinghouse for data from a variety of wastewater monitoring efforts; there are few requirements for what data is reported and how frequently. While WastewaterSCAN will report its data to NWSS, not all data in NWSS is comparable across communities to the degree that this national effort's data are.

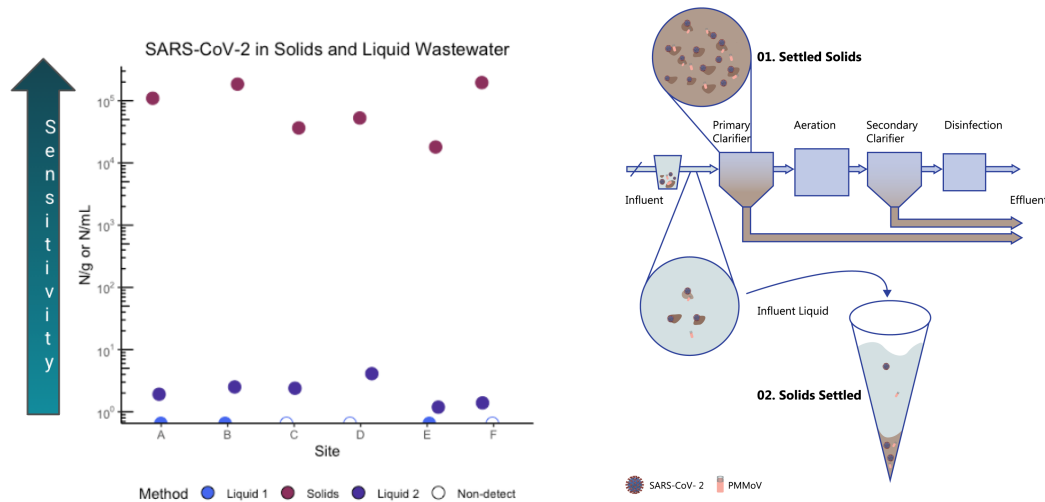
HOW DOES TESTING WASTEWATER COMPLEMENT CLINICAL TESTING?

Monitoring for the virus that causes COVID-19 (SARS-CoV-2) in a community's wastewater and watching for rapid and sustained increases in virus levels in those results can help slow and prevent the spread of COVID-19.

Here's how: The virus that causes COVID-19 leaves markers in human waste (also called stool, feces, excrement, or poop). That can begin days before a person shows symptoms or seeks diagnostic testing. Monitoring wastewater can act as public health radar, warning officials and the public of a coming wave of infections or reassuring them that spread is subsiding. Wastewater monitoring informs counties and cities about infection trends, which can allow them to notify residents and to respond if needed (for example, by encouraging community members to get tested). Wastewater monitoring doesn't require any added steps by the public to generate community-wide data of COVID-19 or other pathogens' presence. Publicly sponsored, widespread diagnostic testing was an extraordinary response to COVID-19 that was challenging to mount and home testing has reduced the public's willingness to participate in community testing initiatives. No one is left out of wastewater monitoring data.

WHY DO YOU PREFER SOLID SAMPLES OVER LIQUID INFLUENT?

By testing solids that settle from wastewater, WastewaterSCAN's analysis is the most sensitive available. As a consequence, WastewaterSCAN's results have been shown to track very closely with the number and trends of clinical cases in a community.



Viral load collected from solids/settled solids is much more concentrated, leading to higher sensitivity and comparability across time points and wastewater treatment plants. [Wastewaterscan.org](https://www.wastewaterscan.org)

INTERESTED IN LEARNING MORE?

Visit wastewaterscan.org for more information, or submit to our Interest Form [here](#).

REFERENCES

MK Wolfe et al. Sept 2021 mSystems. High-Frequency, High-Throughput Quantification of SARS-CoV-2 RNA in Wastewater Settled Solids at Eight Publicly Owned Treatment Works in Northern California Shows Strong Association with COVID-19 Incidence

wbe.stanford.edu

Additional Questions?

Please reach out to publichealthteam@verily.com

Agenda Item

9.E.

Budgeted: N/A

Budget amount: N/A

Line Item: N/A

Legal Counsel Review: No

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Amber Baylor, Director of Environmental Compliance

SUBJECT: Asset Management Plans for San Juan Creek Ocean Outfall (SJCOO) and Aliso Creek Ocean Outfall (ACOO) Permit Compliance

Summary

The San Juan Creek Ocean Outfall (SJCOO) and Aliso Creek Ocean Outfall (ACOO) NPDES permits require that SOCWA provide an Asset Management Plan (AMP) for each outfall system. There are ten discharge facilities on the SJCOO and eight discharge facilities on the ACOO. The SJCOO and ACOO AMPs are due to the San Diego Regional Water Quality Control Board (SDRWQCB) 180 days after the adoption of the NPDES permits. The SDRWQCB staff indicated that one AMP per outfall would satisfy the permit requirements. The AMP requirements are listed in both the ACOO and SJCOO NPDES Permit Section 6.3.5.7. The SDRWQCB provided the U.S. EPA's AMP¹ guidelines and a copy of the Orange County Sanitation District's (OCSd) AMP² as guidelines for compliance. Justification for the AMP by the SDRWQCB is provided through 40 CFR section 122.41(e), which states: "The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit."

The AMP documents are due to the SDRWQCB on October 28, 2022. SOCWA includes additional final review through the SOCWA Engineering Committee after this Board meeting due to the timing of the compliance submittal. Additional input by member agency will be incorporated into the final submittals.

¹ U.S. Environmental Protection Agency March 6, 2017. Asset Management Programs for Stormwater and Wastewater Systems: Overcoming Barriers to Development and Implementation. EPA Contract No. EP-C-14-003. Prepared by PG Environmental.. <https://www.epa.gov/sustainable-water-infrastructure/asset-management-programs-stormwater-and-wastewater-systems>

² Orange County Sanitation District. 2021 Asset Management Plan. <https://www.ocsan.gov/Home/Components/News/News/4656/270?npage=9>

Discussion/Analysis

SOCWA staff prepared an outline, excel templates, and draft AMP documents for each member agency to review, comment, and to utilize for response to the compliance requirements. Agencies provided various forms of responses related to the request for information which included both narrative and numerical information. Staff met individually with agencies where schedules would allow and received additional comments through email communication which were incorporated in the draft AMPs included in this agenda item.

Advisory Committee Review

SOCWA brought the AMP outline and draft AMP to Engineering Committee on August 11, 2022 and September 8, 2022 respectively for discussion and consultation. SOCWA will bring the AMP documents back to the Engineering Committee for final review at the October 13, 2022 SOCWA Engineering Committee with final comments due back to SOCWA staff by October 24, 2022 for SOCWA staff to submit within the compliance deadline of October 28, 2022.

Recommended Action: Information item.

Attachment(s) SJCOO and ACOO Draft Final AMP documents.



SAN JUAN CREEK OCEAN OUTFALL ASSET MANAGEMENT PLAN

NPDES No. CA0107417, Order No. R9-2022-0005

Abstract

In conformance with NPDES Section 6.2.5.7, SOCWA and SOCWA Member Agencies developed this Asset Management Plan for proper operation, maintenance, engineering, financial management, and Board level oversight of the permitted facilities. This AMP also complies with NPDES Section 6.3.5.7.

SOCWA
October 2022

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Update Tables in Final submittal.

Executive Summary

Asset Management Purpose, Objective, & Findings

Purpose:

To comply with the SJCOO NPDES Permit as stated in the NPDES permit: “Asset management planning provides a framework for setting and operating quality assurance procedures and ensuring the Dischargers have sufficient financial and technical resources to continually maintain a targeted level of service and the operational integrity of the POTWs. Asset management requirements have been established in this Order to ensure compliance with Standard Provision 1.4 in Attachment D of this Order and the requirements of 40 CFR section 122.41(e).”

Objectives:

Proactive approach to repair, rehabilitation, and replacement, assets are reliable and operating when needed, minimization of unplanned outages, management of risks associated with asset or service impairment through asset performance optimization, development of cost-effective management strategies in the long-term, and striving for continual improvement of asset management practices.

Organization:

This AMP is organized by NPDES Section numbers to provide the Regional Board with a Roadmap that permittees used to comply NPDES requirements. This AMP starts with an Introduction of the treatment facilities, responsible agencies, where the reader can find the facility descriptions in the NPDES permit and associated maps in compliance with §6.3.5.7.3. Part 2 provides the reader with an overview of the maintenance programs and funding to accomplish rehabilitation and needed repair of the permitted facilities. Part 2 complies with §6.3.5.7.1., §6.3.5.7.2., and §6.3.5.7.6. Part 3 includes funding sources, capital program management and system projections for each facility in compliance with §6.3.5.7.4. and §6.3.5.7.5. Part 4 provides a general overview of the findings in this AMP.

Findings:

All agencies are in various stages of their asset management program implementations. Agencies are properly planning, maintaining, and replacing small capital and large capital in conformance with these NPDES requirements. Through inspections conducted by SDRWQCB staff after the adoption of the NPDES permit, there were no deficiencies found. This concludes that agencies are taking proper care and maintenance of their facilities as required by the NPDES permit.

Part 1: Introduction

Asset Management Plan Discharge Facilities Overview

There are nine permitted facility discharges contained in the SJCOO permit, as described in Table 1 below. The Oso Creek Water Reclamation Plant (OCWRP) is also named in the SJCOO permit. OCWRP discharges to the Oso Trabuco sewer line and not directly to the SJCOO thus, the facility is included under the requirements of this AMP. The table below provides the reference point for each named facility, the facility's responsible agency, and the permitted description of the facility in compliance with the AMP requirement for inclusion. Each section of this AMP refers to the responsible agency to organize the list of facilities that the agency has direct oversight over, through contracted agreements, or through direct oversight as part of their organizational structure. The responsible agencies are listed in alphabetical order throughout the AMP for consistency and clarity throughout the document.

Monitoring Location Name	Facility Name	Responsible Agency	Permitted Description NPDES Section in Attachment F
M-001	San Juan Creek Ocean Outfall	SOCWA	2.2
M-001A	JB Latham Treatment Plant	SOCWA, SCWD, MNWD, and SMWD	2.1.1.
M-001B	Chiquita Water Reclamation Plant	SMWD	2.1.2.
M-001C	3A Water Reclamation Plant	MNWD	2.1.3.
M-001D	San Clemente Water Reclamation Plant	CSC	2.1.4.
M-001E	San Juan Capistrano Groundwater Treatment Plant	SMWD	2.1.5.
M-001F	South Coast Water District Groundwater Recovery Facility	SCWD	2.1.6.
M-001G	Segunda Deshescha Runoff Plant	CSC	2.1.7.
M-001H	Doheny Desalination Project	SCWD	2.1.8.
	Oso Creek Water Reclamation Plant	SMWD	2.1.1.

Table 1: SJCOO Permitted Dischargers

SJCOO Discharge Facility Infrastructure in Compliance with § 6.3.5.7.3

The NPDES permit requires that the AMP require a map of the wastewater treatment plant that “shall incorporate assets from the asset management inventory.” Each agency provided maps related to this requirement which are included in Appendix A with descriptions of how the agencies interpreted this requirement and responded with materials available that were provided to SOCWA.

Part 2: Program Monitoring

Compliance with NPDES Sections §6.3.5.7.1., §6.3.5.7.2., and §6.3.5.7.6

Each agency includes a robust system of rehabilitation and replacement plans that are tied to their operational planning through their respective operational structures. Computerized maintenance and management systems (CMMS) are the main operational management software system(s) that agencies utilize for maintenance planning and scheduling of replacement maintenance activities. Management structure with personnel in charge of direct oversight to accomplish the preventative maintenance and other rehabilitation activities in the primary mechanism for completion of the permit compliance requirements. The San Diego Regional Water Quality Control Board (SDRWQCB) completes compliance evaluation inspections to review the rehabilitation and preventative maintenance requirements with a metric scoring system to identify whether the activity levels are unacceptable or not. In April 2022, the SDRWQCB staff performed CEIs at all of the facilities, with no facility receiving an unacceptable rating that would be out of compliance with these permit requirements.

Rehabilitation and Replacement Plan in Compliance with NPDES § 6.3.5.7.1

Section 6.3.5.7.1 in the SJCOO NPDES permit states: “Each agency includes a robust system of rehabilitation and replacement plans that are tied into their capital spending and budgeting processes.” Detailed in this section is how each agency is meeting this permit requirement.

CSC

The City of San Clemente plans on spending \$2.15M in maintenance activities between FY 21/22 through FY 27/28 for activities spent on the Water Reclamation Plant. Those maintenance activities are included in Appendix B.

MNWD

System reliability is paramount. Moulton Niguel Water District maintains more than \$2 billion worth of water and wastewater infrastructure assets.

Moulton Niguel’s 10-year Capital Improvement Program (CIP) contains \$623M of identified projects for primarily the rehabilitation of: the District’s 3A wastewater treatment plant, lift stations, pump stations, reservoirs, transmission mains, valve replacements, and other identified infrastructure. Attached is Appendix B from the District’s FY2022-23 approved budget. This document summarizes all of the currently identified projects in the District’s 10-year CIP, including the approximate timeframe for implementation. The District’s capital financing plan accounts for unexpected cost impacts, such as updated condition assessments, delayed project starts, and municipal permitting requirements. Significant projects in the 10-year CIP includes: a pipeline replacement program, reliability investments in vertical assets, such as pump and lift stations, reservoir management system replacements, electrical system improvements, as well as a comprehensive rehabilitation and replacement plan for the 3A wastewater treatment plant.

Vertical Asset Rehabilitation and Replacement Program

The District operates and maintains over 50 pump stations, lift stations, take-outs, and flow control facilities for potable water, recycled water, and wastewater services throughout its service area. As part of its CIP, Moulton Niguel has implemented a program to comprehensively rehabilitate each vertical asset facility as part of an \$82.6M Vertical Asset Rehabilitation and Replacement Program. Each project will include a comprehensive assessment of all aspects of the facility, including sitework, structures, mechanical systems, electrical, and instrumentation, and will complete all necessary improvements as a single project. The early stages of design are underway for the complete reconstruction of the North Aliso Lift Station and the comprehensive rehabilitation of the Aliso Creek Lift Station. Construction of each of these projects is anticipated to begin in FY2023-24, with overall project budgets of approximately \$6.0M and \$3.9M, respectively.

Pipeline Rehabilitation and Replacement Program

The District operates and maintains approximately 1,400 miles of buried pipelines for potable water, recycled water, and wastewater services throughout its service area. As part of its CIP, Moulton Niguel has implemented a program to systematically replace pipelines as part of a \$108M Pipeline Rehabilitation and Replacement Program. The program was established using a risk-based prioritization process to rank pipelines based on a variety of factors, including age, materials, leak history, CCTV observations, number of services or hydrants out of service, soil corrosivity, adjacent land uses, and proximity to water bodies as applicable. These rankings are updated annually as part of the CIP budget development process and then utilized to prioritize pipelines for condition assessment, rehabilitation, and replacement. Design is nearly completed for the Regional Force Main Replacement Project and Crown Valley Pipelines Replacement Project (comprised of the Lower Salada Lift Station Force Main Replacement, Crown Valley Parkway Transmission Main Lower Reach Replacement, and I.D. No. 1 Master Meter Replacement). Construction of each of these projects is anticipated to begin in FY2023-24 with overall project budgets of approximately \$19.2M and \$17.3M, respectively.

Plant 3A Capital Improvement Program

Moulton Niguel Water District constructed Plant 3A in the late 1980s. The District managed the operation of the facility when it came online in June 1990 until the operation was transferred to the South East Regional Reclamation Authority, which subsequently became the South Orange County Wastewater Authority (SOCWA), in June 1998. SOCWA operated Plant 3A until Spring 2015 when Santa Margarita Water District assumed operation for a three-year term. Since resuming operations and capital planning for Plant 3A in 2019, Moulton Niguel has initiated the comprehensive rehabilitation of the Plant 3A facilities. Although a number of smaller projects have been (and continue to be) undertaken by staff and outside contractors, the significant rehabilitation efforts are primarily included in a Ground Subsidence Mitigation project, a Solids Handling Facilities Improvements project, and a Liquids Handling Facilities Improvements project. Upon completion of these projects, all mechanical, electrical, instrumentation and control systems will be upgraded in such a manner that the entire facility

will be restored to be functionally redundant with the treatment processes optimized for current and projected flows and loadings.

The Ground Subsidence Mitigation project will remediate site subsidence and settlement throughout the site, provide improved storm drainage facilities, and replace the existing pavement surfaces. The plant water systems will also be converted to recycled water as part of this project. The current FY 2022-23 project budget is approximately \$4.8M, with construction underway.

The Solids Handling Facilities Improvements project will provide a comprehensive rehabilitation of the solids handling facilities, including scum pumping, sludge thickening, digesters, digester mixing systems, sludge heating systems, sludge feed system, dewatering, flare, electrical systems, SCADA systems, and other ancillary facilities. Additionally, a solids loadout facility will be constructed, including conveyors, a sludge silo, and a truck scale system. The project is currently in the final design stages with an overall project budget of approximately \$58M. Construction is anticipated to begin in early FY 2023-24.

The Liquids Handling Facilities Improvements project will provide a comprehensive rehabilitation of the liquids handling facilities, including headworks, grit handling, aeration basins, secondary clarifiers, and other ancillary facilities. The existing tertiary treatment system will also be evaluated for rehabilitation or replacement and is planned to be completed as part of this project. The current project budget is approximately \$21M, with design planned to begin in early FY 2023-24 and construction planned to begin in FY 2025-26.

Timeline of Significant Plant 3A Capital Improvement Projects

PROJECT NAME	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
PLANT 3A SUBSIDENCE MITIGATION	CONSTRUCTION					
PLANT 3A SOLIDS HANDLING FACILITIES IMPROVEMENTS	DESIGN	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION		
PLANT 3A LIQUIDS HANDLING FACILITIES IMPROVEMENTS		DESIGN	DESIGN	CONSTRUCTION	CONSTRUCTION	CONSTRUCTION

Table 2: Timeline of Significant Plant 3A CIP

SCWD

The SCWD plans on spending ~\$745,000 on the Groundwater Recovery Facility. A portion of the chart that shows the spending levels is included on p.11 of the SCWD's FY23 Budget and in Appendix B of this document for reference. The SCWD budget can be found on the SCWD website here:

https://www.scwd.org/open_government/financials/budget.php

SCWD also participates in and funds operational projects for the JB Latham Facility through participation in the SOCWA Engineering Committee, SOCWA Finance Committee, and the SOCWA Board.

SMWD

The SMWD asset management is accomplished using a “Comprehensive Asset Management Program” (CAMP), an asset management program which relies on asset inventory, operations and maintenance input, ongoing condition assessments, and staff judgement to identify/schedule preventative maintenance and to identify/prioritize capital improvement projects for asset rehabilitation and replacement, including assets costing \$5,000 and greater.

The following interactive programs are used for real-time planning and implementation of the SMWD CAMP.

Sharepoint CAMP Program: A customized project planning database identifying asset rehabilitation and replacement projects and proposed schedule. The program includes project background, description, justification, ongoing notes, attachment references, funding notes, and cost schedule. See attached **Attachment B – SMWD 1** for sample project printout.

Mainstar Program: The District uses the Mainstar Computerized Maintenance Management System (CMMS). Mainstar generates preventative maintenance orders and tracks completion. See **Attachment B – SMWD 2** for sample printout.

MUNIS Software, Asset Management Module: SMWD uses MUNIS software for project management and related financial functions. Refer to **Attachment B – SMWD 3** for a sample of an asset detail printout.

The District conducts Condition Assessments at facilities as assets reach the end of its service life, to determine rehabilitation and replacement projects. Refer to **Attachment B – SMWD 4** for excerpts from a condition assessment report. Maps of the service area wastewater systems are provided in **Attachment B – SMWD 5**, and a list of projects with budgets is provided in **Attachment B – SMWD 6**.

The Santa Margarita Water District is comprised of service area divisions referred to as Improvement Districts (IDs), with the following correlations: ID 1 – Mission Viejo, ID 2 – Coto de Caza, ID 3 – Rancho Santa Margarita (RSM) (NW), ID 4 – RSM, Las Flores, Ladera Ranch, Sendero, Esencia, Wagon Wheel, ID 5 – Rienda, ID 6 – future, ID 7 – Talega/San Clemente, ID 8 – Hidden Ridge, ID 9 – City of San Juan Capistrano. The SMWD annexed ID 9 in November 2021.

SOCWA

In FY 2021-22, SOCWA Operational and Maintenance staff completed 52 Small Capital projects with a value of \$2.08 million (estimated 80% spent). Goods on order for installation \$1.08 million, which have delayed small capital projects due to supply chain issues.

Maintenance Planning and Asset System Summaries in Compliance with NPDES § 6.3.5.7.2 & § 6.3.5.7.6 .

SJCOO NPDES § 6.3.5.7.2. states that: “The AMP shall identify individual or categories of maintenance activities and frequency with which they are performed. The Maintenance Plan shall estimate the ongoing and projected cost of maintenance activities.” Below is a description of how each facility is meeting this requirement.

The requirement in NPDES §6.3.5.7.6. is to provide a framework for inventory tracking of assets valued over \$5,000 to for automatic workflow, work order production and tracking, and prioritization of system

maintenance and rehabilitation projects. Each agency automates workflow through organizational management structures and staff direction with oversight by their respective Board of Directors. These systems for asset management of agency infrastructure ensure that there is adequate planning, maintenance, and financial management of facilities. How each agency complies with the structure is articulated below.

CSC

The City of San Clemente plans on spending \$2.15M in maintenance activities between FY 21/22 through FY 27/28 for activities spent on the Water Reclamation Plant. Those maintenance activities are included in Appendix B. At the April 2022 SDRWQCB inspection, there were 14 open work order/service requests. In April 2022, Joann Lim of the SDRWQCB conducted a Compliance Evaluation Inspection (CEI) of the agency facilities, which reviewed the computer maintenance and management system software used to track assets used in the maintenance and capital spending projects. A review of the preventative maintenance activities was conducted, and no deficiencies were found, as described in the CEI letter received from Ms. Lim in May 2022.

MNWD

In response to §6.3.5.7.2

The Collections, Electrical/Instrumentation, Facilities Maintenance, and Wastewater Treatment departments of Moulton Niguel Water District each have extensive preventive maintenance (PM) programs in place. These PMs are scheduled within the District's recently implemented computerized maintenance management system (CMMS) of record, NEXGEN. NEXGEN is an advanced CMMS that provides customizable, easy to use modules and allows for expeditious/timely data exports as well as complex performance reporting for a variety of metrics. The preventive maintenance module in NEXGEN allows for a variety of frequency options, customizable checklists, and attachments to be added to the work orders, such as photographs, standard operating procedures, and reference materials. The tables below represent a summary of the preventive maintenance activities and frequencies for wastewater collection, pumping, and treatment systems by the department. The total cost of these preventative maintenance activities is approximately \$1.4M annually.

Collections PMs			
Main Task	Schedule Type	Annual Labor Hours	Total Annual Cost
Early Enhanced Cleaning (30 routes)	Semi-annual	416	\$37,274
Enhanced Cleaning (123 routes)	Semi-annual	1908	\$262,541
Routine Cleaning (64 routes)	Annual	3636	\$325,786
CCTV	Annual	1584	\$116,899
Total		7544	\$742,500

Table 3: Collection Preventative Maintenance Schedule and Costs

Electrical/Instrumentation PMs				
Main Task	PM Details	Schedule Type	Annual Labor Hours	Total Annual Cost
Critical Quarterly Checks (22 facilities)	Inspect, clean, and test alarms, PLC, MCC, SMC, & VFD	Quarterly	312	\$25,555
3A PLC Maintenance	Inspect and clean PLC panels	Annual	12	\$4,670
Aeration Blower System	Inspect, clean, and test	Annual	12	\$4,670
AWT Pumping System	Inspect, clean, and test	Annual	20	\$7,783
Bar Screen Maintenance	Inspect, clean, and test	Annual	8	\$3,113
Centrifuge and Conveyor System	Inspect, clean, and test	Annual	20	\$7,783
Compactor System	Inspect, clean, and test	Annual	8	\$3,113
Digester Pump Blower System	Inspect, clean, and test	Annual	20	\$7,783
Gas Monitoring	Inspect and calibrate	Quarterly	16	\$6,226
Grit Pumping System	Inspect, clean, and test	Annual	12	\$4,670
HVAC Systems	Inspect, clean, and test	Annual	20	\$7,783
Main Switchboard		Annual	60	\$23,348
ORT Pump Blower System	Inspect, clean, and test	Annual	20	\$7,783
Primary Sedimentation Tank Skim & Sludge Collection System	Inspect, clean, and test	Annual	20	\$7,783
Primary Sludge Pumping System	Inspect, clean, and test	Annual	16	\$6,226
Raw Sewage Pump System	Inspect, clean, and test	Annual	20	\$7,783
Returned Activated Sludge System	Inspect, clean, and test	Annual	20	\$7,783
ROTO Screen (Compactor) System	Inspect, clean, and test	Annual	20	\$7,783
Secondary Sedimentation Tank Skim & Sludge Collection System	Inspect, clean, and test	Annual	20	\$7,783
Waste Activated Sludge System	Inspect, clean, and test	Annual	8	\$3,113
Total			644	\$154,747

Table 4: Electrical/Instrumentation

Facilities Maintenance PMs				
Main Task	PM Details	Schedule Type	Annual Labor Hours	Total Annual Cost
Air Conditioning Service	Assist contractor	Quarterly	6	\$415
Facility/Location Checks	Inspect site surroundings. Listen for unusual sounds from pumps, fans, compressors, valves, and panels. Check pumps, packing adjustment or seal water weep, vibration, leaking, and bearing	Daily	1464	\$101,250

	temperature. Check PLC lights for active alarms.			
Generator/Auxiliary Testing	Check fluids. Test auxiliary and ATS switch. Test alarms. Clean probes, weep bowls, and sump pits	Monthly	840	\$58,094
Hoist/Crane Inspection	Inspect hook, chain/cable, brake test, stops, and operation	Quarterly	120	\$8,299
Logging/Inspection	Checking various assets within station	Weekly	1560	\$107,890
Oxygen Generation System Service	Assist contractor	Quarterly	20	\$1,383
Pump Inspection/Maintenance	Overall inspection, check coupling, and check vibration	Quarterly	120	\$8,299
Quarterly Safety Inspection Procedure	Condition assessment of switches and controls, cat walks, railings, stairs, guards, warning signs, floor grates, fire extinguishers, hoists, and eyewashes.	Quarterly	20	\$1,383
Surge Tank Maintenance and Inspection	Visual inspection on tank and water	Annual	3	\$207
Valve Exercising	Operate valves	Semi-annual	100	\$6,916
Wet Well Inspection and Maintenance	Inspect wet well for thickness and clean out if necessary.	Monthly	84	\$6,918
Plant-Aeration Blower Inspection	Grease, check temperature and vibration.	Quarterly	32	\$2,213
Plant-Air Compressor Maintenance	Check belt, air filter, change oil, clean exterior air filter, change oil filter if needed.	Quarterly	112	\$7,746
Plant-Bar Screen Inspections	Replace greasers, gearbox oil change, check pins, sprockets, teeth, and screen in channel.	Annual	3	\$207
Plant-Boiler System Inspection and Maintenance	Tune up, emissions, and inspect recirculating and heat loop pumps for leaks.	Quarterly/Annual	86	\$5,948
Plant-Compactor Inspection and Maintenance	Grease, gearbox oil change, and replace brushes as needed.	Annual	3	\$207

Plant-Digester System Inspection and Maintenance	Visual inspection, check belts and change oil on blowers.	Annual	24	\$1,660
Plant-Grit Classifier Inspections	Grease and check bearings.	Quarterly	32	\$2,213
Plant-Primary and Scum Collector Inspection	Visual inspection, change oil, check clutch and drive chain.	Annual	8	\$553
Plant-Pump Inspection and Maintenance	Visual inspection, clean out and inspect teeth on grinders, change oil in pump and check belts,	Quarterly	114	\$7,884
Plant-Secondary Clarifier Inspection	Confined space entry to check inside of tank and inspect internal equipment.	Annual	9	\$622
Plant-Tank Inspection	Visual inspection on external tank and equipment, Confined space entry for visual inspection inside tanks.	Annual	16	\$1,107
Plant-Wet Well Inspections	Inspect and clean out as needed.	Annual	6	\$494
Total			4779	\$331,908

Table 5: Facilities Maintenance Preventative Maintenance Schedule and Costs

Wastewater Treatment Operations PMs				
Main Task	PM Details	Schedule Type	Annual Labor Hours	Total Annual Cost
Plant Rounds		Daily	1095	\$80,674
Safety Equipment Checks	Gas detectors, fire extinguishers, eyewash stations, lights, confined space equipment, and ladder systems.	Weekly	104	\$7,662
Equipment Rotations	2W pumps, bar screens, compactors, grit chambers, primary tanks, aeration blowers, RAS pumps, AWT applied pumps, AWT filter pumps, sodium hypochlorite pumps, polymer pumps, ferric chloride pumps, centrifuges, ORT recirculation pumps, and other equipment.	Monthly	240	\$17,682
Aeration Basin Cleaning	Inspect and clean basins	Annually	80	\$5,894
Sump Pump Checks		Monthly	24	\$1,768
Dissolved Oxygen Profiles	Aeration tanks 1 & 2	Weekly	208	\$15,324
Alarm Testing	Informational, critical, and dialer testing	Bi-weekly	26	\$1,916

Sampler Checks	Inspect, clean, and test	Daily	365	\$26,873
Bar Screen Maintenance	Inspect and replace greasers	Annually	8	\$589
Total			1785	\$158,382

Table 6: Wastewater Treatment Preventative Maintenance Schedule and Costs

In response to §6.3.5.7.6 Asset Management Software

Moulton Niguel Water District has an extensive history of utilizing asset management (AM) software to track and manage operational workflows and preventative maintenance schedules of its assets. In 2017, the District began leveraging its GIS software, Microsoft Excel, and GIS-based asset data to determine prioritization scores for its pipelines. Using criteria including age, materials, soil corrosivity, CCTV observations, adjacent land uses, and proximity to water bodies, we calculated Probability of Failure and Consequence of Failure scores, enabling the District to rank pipelines by overall priority. These rankings were then utilized to establish and prioritize upcoming capital projects and forecast capital funding needs.

Historically, the District's primary AM software was "Tabware" by AssetPoint. Starting in the spring of 2021, the District implemented a new AM software to more effectively manage and enhance the maintenance of the District's vertical assets and infrastructure. This new software, "Nexgen," provides a comprehensive, cloud-based AM software solution and Computer Maintenance Management System (CMMS) for the District moving forward. The software provides the following benefits:

- Provides management visibility and operational execution and allows for consistent data for analysis and reporting.
- Enables mobile work orders, automatic email alerts and review/approve requests through smartphones or tablets.
- Tracks staff workflow data to assign the right work tasks to the right people at the right time, minimizing unplanned downtime and improving efficiency.
- Sends automatic email alerts when review or approval is needed to keep workflows moving.
- Use the workorder history data, and time/material data, to develop asset lifecycle cost information.

That, along with developed remaining useful life and costing data, will be utilized to inform a comprehensive asset management program that leverages data into actionable asset decision-making on system maintenance and rehabilitation projects.

- Increased Inventory Control

As of August 2022, the Nexgen implementation has been completed with nearly all workgroups within the Operations, Engineering, and Customer Service divisions. This implementation established routine preventative maintenance and reactive workorders, software and systems configuration, and initial development of an asset register, along with integrations with our geographic information system ("Geocortex"), timesheet management, fuel management,

underground service alert process, collection system CCTV database, and our enterprise resource planning software (“JDEdwards”). Additional planned implementations will include enhanced development of the asset registry data (including useful life values, cost values, and the refinement of risk analysis scores), and the development of more robust asset management reporting. A sample of the asset details are included in Appendix B – MNWD 2.

In April, 2022, Joann Lim of the SDRWQCB conducted a Compliance Evaluation Inspection (CEI) of the agency facilities, which reviewed the computer maintenance and management system software used to track assets used in the maintenance and capital spending projects. A review of the preventative maintenance activities was conducted, and no deficiencies were found as described in the CEI letter received from Ms. Lim in May 2022.

SCWD

All planning activities for maintenance activities are handled in the Maintenance Connection CMMS. In April 2022, Joann Lim of the SDRWQCB conducted a Compliance Evaluation Inspection (CEI) of the agency facilities, which reviewed the computer maintenance and management system software used to track assets used in the maintenance and capital spending projects. A review of the preventative maintenance activities was conducted, and no deficiencies were found, as described in the CEI letter received from Ms. Lim in May 2022.

SMWD

In response to § 6.3.5.7.2

SMWD uses Mainstar CMMS software for maintenance planning. Refer to response in 6.3.5.7.1 and **Appendix B – SMWD 2** for an example of regularly scheduled maintenance activities at the Horno Lift Station. These activities are representative of scheduled maintenance at all District facilities.

Sewer system management is in accordance with the “Santa Margarita Water District, Sewer System Management Plan (SSMP)”. The District conducts an audit of the SSMP every two years and recertifies the SSMP every five years. The most recent version v1.2, June 2022 is available on the SMWD website at www.smwd.com/ssmp. The June 2022 SMWD SSMP is for the current SMWD service area, IDs 1 through 9. The SMWD SSMP meets the requirements of the Regional Water Quality Control Board, San Diego Region 9 (RWQCB) and Statewide General Waste Discharge Requirements (GWDR) required by the State Water Resources Control Board (SWRCB).

In response to § 6.3.5.7.6 Asset Management Software:

SMWD uses a number of software programs to manage the District’s CAMP. Refer to Section 6.3.5.7.1 Rehabilitation and Replacement Plan and Appendix B – SMWD 1-3 of this report.

The information identified in this requirement is provided in the table 7 below:

Information	Sharepoint Appendix B – SMWD 1	Mainstar Appendix B – SMWD 2	MUNIS Asset Mgmt Module Appendix B – SMWD 3
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Name and identification number	Yes	Yes	Yes
Location (GPS coordinate or equivalent identifier)	No	Yes	No
Purchase and installation date	No	No	Yes
Purchase price	No	No	Yes
Replacement cost	No	No	Yes
Quantitative consequence of failure	(1)	No	No
Quantitative likelihood of failure	(1)	No	No
(1) Consequence of failure and likelihood of failure are factored into the prioritization and justification of all projects. Other asset management criteria considered include: safety and working environment, regulatory compliance, energy efficiency, odor control, cost efficiency, facility capacity, asset useful life. The District uses Condition Assessments, see Appendix B – SMWD 4, to assess these criteria.			

Table 7: Summary of Asset Management Software

SOCWA

SOCWA uses Tabware by Aptean. Tabware by Aptean is a computerized maintenance management system or CMMS software that centralizes maintenance information and facilitates the processes of maintenance operations. It helps optimize the utilization and availability of physical equipment like vehicles, machinery, communications, plant infrastructures, and other assets.

The core of the CMMS is the database. It has a data model that organizes information about the assets needed for maintaining the equipment, materials, and other resources management by SOCWA. The information in the CMMS database supports various functions of the system, which enable the following capabilities:

Resource and labor management:

- Track available employees
- Assign specific tasks
- Schedule projects requiring multiple crafts and/or Departments
- Asset registry: Store, access, and share asset information such as:
 - Manufacturer, model, serial number and equipment class, and type
 - Associated costs and codes
 - Location and position
 - Performance and downtime statistics
 - Associated documentation, video, images such as repair manuals, safety procedures, and warranty information

Work order management: Typically viewed as the main function of CMMS, work order management includes information such as:

- Work order number
- Description and priority
- Order type (repair, replace, scheduled)
- Cause and remedy codes
- Personnel assigned and materials used
- Backlog reports

Work order management also includes capabilities to:

- Automate work order generation
- Schedule and assign employees
- Review status and track downtime
- Record planned and actual costs
- Attach associated documentation, repair, safety information, equipment nameplate data (manufacturer, model, serial number, sizing, etc.), specifications, location and criticality

information, documents and video files, user-defined data fields, hierarchy of components, assemblies, sub-assemblies and parts, maintenance and cost history, parts ordering information

Preventive maintenance:

- Automate work order initiation based on time, usage, and triggered events.
- Tabware allows staff to sequence and schedule preventive work orders.

Reporting, analysis, and auditing:

- Generate reports across maintenance categories such as asset availability, materials usage, and labor.
- Tabware also allows viewing equipment assemblies, sub-assemblies, components, and parts to maximize asset performance and improve technician wrench time by eliminating time spent searching for parts.

Information stored in Aptean EAM's Equipment Module is integrated throughout other Aptean EAM modules to help maximize asset performance. For example, inventory items listed on the hierarchy are integrated with the Aptean EAM Inventory Module.

Key features include:

- Reach any function with just 2 mouse clicks
- Aptean EAM's Query Wizard provides quick access to equipment and easy reporting
- Specify multiple meters for equipment to drive preventive maintenance
- Hierarchy view identifies plants, areas, systems, equipment, assemblies, parts, etc.
- Create work orders and requisitions directly from the equipment hierarchy
- Link any type of document to equipment and classes of equipment
- Specify components by equipment and equipment class for failure reporting and analysis
- Move equipment from one location to another directly from the equipment hierarchy

SOCWA staff reports key performance indicators related to Tabware CMMS to the SOCWA Board on a monthly and quarterly basis.

Part 3: Budgetary Considerations

Funding in compliance with §6.3.5.7.4.

NPDES §6.3.5.7.4 states that: “The AMP shall create an accounting of current and projected funding sources, relevant expenses, and financial reserves. Expenses may include operational, administrative, interest, or capital expenses. Funding sources may consist of federal, State, local, or private grants, loans, or bonds, as well as connection and user fees.

CSC

The Annual Adopted Budget of the City includes a section that presents the City’s Capital Improvement Program (CIP) for the Fiscal Year. The CIP section provides a six-year Capital Improvement Plan for the City that includes both Capital and Maintenance projects. Individual project sheets, within the CIP section, include a project description, the division managing the project, the type of project, and the budgeted project costs. Capital projects include new construction, replacement, rehabilitation, and maintenance of assets.

The CIP for the CSC can be found here:

https://issuu.com/z.y.mazboudi/docs/fy_2021_cip_and_maintenance_projects_with_link

MNWD

As the District transitions its focus from developing new infrastructure to maintaining and replacing existing infrastructure, the Long Range Financial Plan (LRFP), in conjunction with other long-term planning efforts, provides a roadmap for future resource needs and actions. Currently, the District is implementing a 10-Year Capital Improvement Plan containing \$623 million in identified projects.

The availability of funds required to finance the capital improvement program and day-to-day operations of the District is tracked through the LRFP model. Capital typically spans across a long-time horizon; hence, a 10-year plan enables the District to plan out the financing needs for future capital expenditures through internal reserves, grants, state loans, property tax and rate revenues, or proceeds from bond issuances. Consistent with best practice, the District conservatively does not include any grant revenues in its financial projections; however, District staff aggressively pursue grant opportunities for qualified projects, ultimately securing over \$10 million in grant funding since FY 2014-15. The long-range financial plan identifies the projected rate revenue adjustments and bond issuances needed to maintain the long-term financial health of the District.

The District maintains a capital financing plan to better account for the difference between actual expenses and projected costs for future capital projects. This approach aligns with best practices to account for the unexpected impacts to the timing of capital projects such as condition assessments identifying assets that may have more remaining useful life than expected or permitting delays to ensure a more accurate projection of cash needs for the near future. Staff conducts monthly cashflow projections on a project-by-project basis and revise these annual capital spending projections based on new asset data and current trends.

SMWD

The District's Finance Department maintains a multi-year financial plan, which is utilized in the District's annual budget, strategic planning, and customer rate setting. The financial plan matches costs with funding to fund the operational, administrative, interest, and capital improvements of the District's system. SMWD finances capital projects using a variety of sources, including revenue from sewer charges, reserve funds, previously established Community Facility District and General Obligation Bonds funds, and Revenue Bonds. The District recently issued the Water and Wastewater Revenue Bonds, Series 2020A to provide funds, in part, to construct the District's upcoming Capital Improvement Program.

SOCWA

Large Capital Improvements Projects (CIP) projected spending of \$15,996,104. Of this amount, \$8,185,065, is expected to be expended to complete six major projects, including the JBL Package B Construction at the PC 2 J.B. Latham Treatment Plant and the Aeration System Upgrade at the PC 17 Regional Treatment Plant site. The Large Capital Improvements budget is submitted for approval of the Board with one year of additional detail prepared for future planning purposes through Fiscal Year 2023-2024 (2 Years). The CIP and SOCWA budget can be found here: <http://www.socwa.com/wp-content/uploads/2022/07/FY-2022-23-BOD-Approved-Budget-1.pdf>

Substantial Progress on Capital Improvements

SOCWA prioritizes capital spending based on remaining useful life (RUL) for individual components of the facility with direction from the SOCWA Engineering Committee. The JB Latham facility RUL breakdown is included in Appendix C, which also includes the estimated replacement cost, where the asset is located, and the asset tag in connection with the Tabware CMMS. Large Capital Funds held on Account continued to be spent down. Close of Fiscal Year (6/30/2022) with expected \$11.86 million in capital construction currently underway, including work for:

- JBL Package B, Project in Construction
- JBL Plant Standby Power Generator
- JBL Effluent Pump Station

Major Projects in FY 2022-23:

- JBL Package B Construction
- JBL Plant 1 Electrical Rehabilitation
- JBL Miscellaneous Gates and Pipe Rehabilitations
- JBL Miscellaneous Roof Rehabilitations
- JBL Centrate Piping Reconstructions

System Projections in compliance with §6.3.5.7.5

Each agency identifies service area vulnerabilities and population water access needs through rate setting projects and Urban Water Management Plans, which are referenced and provided in the narrative for each agency below. In addition, NPDES §6.3.4.4 requires dischargers to develop a climate change plan as described here: "The Facilities shall be protected against regional impacts of changing

climate conditions (e.g., rising sea levels, flooding, higher storm surges, and changing hydrography, including more intense atmospheric rivers). Compliance with this requirement shall be implemented through the development and implementation of applicable measures identified in the Climate Change Action Plan, which must be submitted within three years of the effective date of this Order pursuant to section 6.1 of the MRP (Attachment E).”

CSC

Section 3.4 of the CSC’s Urban Water Management Plan includes service area projections, demographics, and service area population found here: <https://www.san-clemente.org/home/showpublisheddocument/64986/637612710083430000>

The CSC will work with SOCWA to identify system vulnerabilities in compliance with NPDES §6.3.4.4 to develop a climate change plan as described in the NPDES Permit.

MNWD

Service Area

Moulton Niguel Water District has grown tremendously since its formation; initially formed by local ranchers to provide water service to eight accounts, the District now provides water, recycled water, and wastewater service to more than 170,000 customers within a 37-square-mile service area covering portions of six cities in southern Orange County. The District service area is largely built-out and includes the cities of Aliso Viejo and Laguna Niguel along with portions of the cities of Laguna Hills, Mission Viejo, San Juan Capistrano, and Dana Point. In 2020 within the District’s service area there were 67,091 homes, of which approximately 50 percent are single-family. While its operations have evolved along with the growth of its service area, the District’s primary focus has remained largely unchanged: ensuring ratepayers have a reliable, sustainable, and economical water supply for the future.

Service Area Population

Population growth between 2000 and 2020 averaged 670 residents per year, or an average annual growth rate of 0.41 percent. However, during the period from 2004 to 2006, the annual average growth declined by 668 residents per year or 0.41 percent over those three years. As there are fewer and fewer areas to develop within the District’s service area, population growth will primarily come from redevelopment and infill activities and is anticipated to be on average 2 percent over the next 10 years. Beginning in 2035, the population is expected to decrease in the service area by approximately 1 percent through 2045. The forecasted population for the District from 2020 to 2045 was provided by the Center for Demographic Research at California State University Fullerton (CDR). The Table below shows the population projections in five-year increments to the year 2045.

Population - Current and Projected						
Population Served	2020	2025	2030	2035	2040	2045
	170,236	172,134	174,202	174,241	174,169	172,802
Notes: Data provided by Center for Demographics.						

System Vulnerabilities

With increased temperatures and higher intensity storms in recent years, the importance of identifying and mitigating inflow and infiltration (I&I) in wastewater collection systems has been brought to the forefront of the water and wastewater industries. As part of its ongoing efforts to identify and mitigate vulnerabilities in the wastewater collection systems, the District has implemented several strategies to evaluate potential I&I issues within its collections system. The intent behind these components is to take a focused and strategic approach to identify locations prone to I&I, review and determine the cause of I&I, and implement improvements to mitigate or eliminate identified I&I into the collection system. These strategies include:

1. Utilize the flow data for the identified wastewater sub-basins within the District's service area to determine areas that are experiencing higher peaking factors during rain events;
2. Identify areas within the collection system that may be subject to I&I, such as sewer mains that run parallel to or cross existing creeks;
3. Perform video inspection of higher-risk sewer mains, including inspections of sewer siphons;
4. Revise procedure for annual manhole condition assessments to incorporate the location of the manholes relative to street drainage systems, i.e. ribbon gutters or curb & gutter;
5. Coordinate with the responsible city within the identified sub-basin to identify designated pool that were connected to the sewer system.

Since 2019, the District has deployed flow measurement devices and rain gauges to continuously refine the targeted investigation of I&I within the collection systems. This information, in combination with CCTV and manhole assessment data, is incorporated into the collection system rehabilitation prioritization shown in the maps included as part of the response to Section 6.3.5.7.3.

Overall, the effect of climate change in the western United States and more specifically the Orange County region has shown itself in increased temperatures and less overall rainfall while occurring in increased intensity. This has resulted in significant water conservation over the past several years, which has led to corresponding decreases in wastewater flows. Although increases in the overall capacity of the wastewater collection system have been realized because of the reduction in wastewater flows, other challenges have manifested themselves, particularly to the lift stations. As the District completes the comprehensive rehabilitation of

each facility in the wastewater system, particular effort is expended to ‘right-size’ the infrastructure to the current and future demands of the facility. Each rehabilitation of these facilities is prioritized based on age, condition, and overall risk.

SCWD

The Capital Improvement Project Budget for SCWD can be found here, with specific budgeting information found on p.24 in the budget:

https://cms9files.revize.com/scoastwaterdist/SCWD_FY22_BudgetBook_final.pdf

SCWD will work with SOCWA to identify system vulnerabilities in compliance with NPDES §6.3.4.4 to develop a climate change plan as described in the NPDES Permit.

SMWD

Flow Projections:

The 2020 SMWD UWMP was prepared in compliance with the California Water Code Section 10630.5 for the SMWD service area at that time (IDs 1 through 8). The City of San Juan Capistrano prepared a similar Urban Water Management Plan in 2015. The District updated water use projections for IDs 1-8 as part of the 2020 UWMP preparation. Based on the updated water use projections, “Section 6.2.3 – Wastewater and Recycled Water” presents wastewater flow projects, wastewater collection, and wastewater treatment and reuse/disposal.

Table 8 summarizes the 2020 SMWD UWMP presented SMWD (IDs 1-8) Wastewater Treatment volumes.

Treatment Plant	Wastewater Volume (af)	Ave Daily Wastewater Flow (MGD)
SMWD Chiquita Water Reclamation Plant	6,178	5.5
SMWD Oso Creek Water Reclamation Plant	1,817	1.6
SOCWA J.B. Latham Plant	1,600	1.4
IRWD Los Alisos Water Recycling Plant	750	0.7
San Clemente Water Reclamation Plant	709	0.6
Source: Table 6-3, 2020 SMWD UWMP. No SMWD flow was treated at the MNWD 3A Plant		

Table 8: Summary of SMWD Wastewater Influent by Treatment Facility, 2020

The Service areas tributary to Oso Creek WRP, J.B. Latham Plant, Los Alisos WRP, and San Clemente WRP are considered to be at Build Out with negligible development activity generating additional new flows. Additional flows are generally offset by reduced wastewater production due to water conservation.

In 2021, the District updated projected sewage flows based on current flows and flow projections for future development based on the following documents:

- “Santa Margarita Water District 2020 Urban Water Management Plan” (2020 UWMP)
- “Rancho Mission Viejo Planning Area 3 “Rienda” Master Plan of Works” (PA-3 POW)
- “The Ranch Plan: Planning Area Nos. 5 and 8 Water Supply Verification” (PA 5&8 WSV)

For the area tributary to the Chiquita Water Reclamation Plant, the Rancho Mission Viejo (RMV) development has developed population projections and wastewater generation projections through build out. The projections provided by RMV, summarized in the Water Supply Verifications and Master Plan

documents, were used in the Influent Flow Analysis for the Chiquita Water Reclamation Plant to project Influent Pump and Screening capacity requirements at build-out. These flow projections are summarized in **Table 9**.

Year	Average Flow (mgd)	Peak Flow (mgd)
2025	6.9	22.2
2030	7.3	22.9
2035	8.0	24.0
2040	8.6	25.1
Ultimate	9.3	26.7
Source: Chiquita Water Reclamation Plant Screenings and Influent Lift Station Expansion, Preliminary Design Report, Table 2-4 and Table 2-8		

Table 9: CWRP Influent Flow Projections

South Orange County Wastewater Authority (SOCWA) meters flow from ID 9 just upstream of the J.B. Latham Plant. SOCWA provided flow data to SMWD for 2017 through 2022 as part of the current SMWD master planning effort for ID 9. Based on the historical data (refer to Table 3, “Tech Memorandum: Santa Margarita Water District Sanitary Sewer Hydraulic Model Update, September 2022, Wood.”), the current average daily flow from ID 9 is 2.3 mgd. The peak flow of 7.2 mgd corresponds to a peak weather event in February 2018. While San Juan Capistrano does not have large areas of undeveloped land, redevelopment is ongoing in areas of the City. The District will be developing 20-year flow projections as part of current master planning efforts.

Climate Change:

As part of the 2020 UWMP work, the District also reviewed available studies and presented Climate Change Impacts for SMWD which are presented in Section 4.7 of the 2020 UWMP. The analysis incorporated the “California Climate Adaptation Planning Guidance (2020)”, and the “South Orange County 2016 Climate Change Vulnerability Assessment” (Appendix J of the “South Orange County Integrated Regional Water Management Region Plan”).

SMWD will work with SOCWA to identify system vulnerabilities in compliance with NPDES §6.3.4.4 to develop a climate change plan as described in the NPDES Permit.

SOCWA

SOCWA will work with agencies to identify system vulnerabilities in compliance with NPDES §6.3.4.4 to develop a climate change plan as described in the NPDES Permit.

Part 4: Findings

All agencies are in various stages of their asset management program implementations. Agencies are properly planning, maintaining, and replacing small capital and large capital in conformance with these NPDES requirements. Through inspections conducted by SDRWQCB staff after the adoption of the NPDES permit, there were no deficiencies found. This concludes that agencies are taking proper care and maintenance of their facilities as required by the NPDES permit.

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Appendices

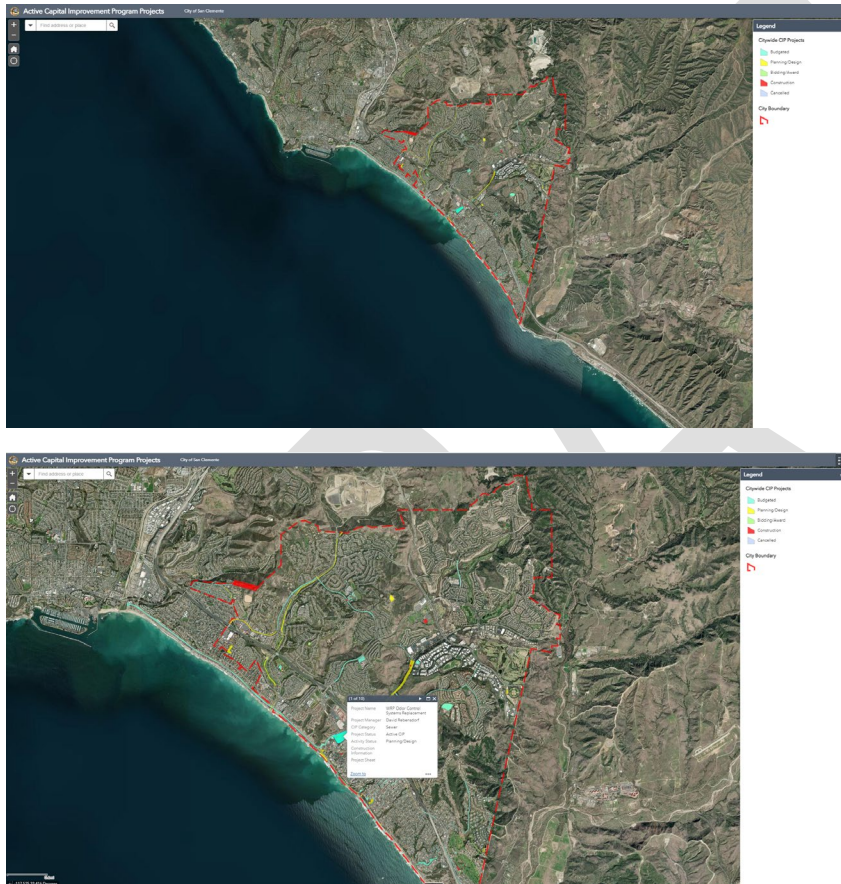
Included in this section are appendices to provide additional details based on narratives in the main body of this report.

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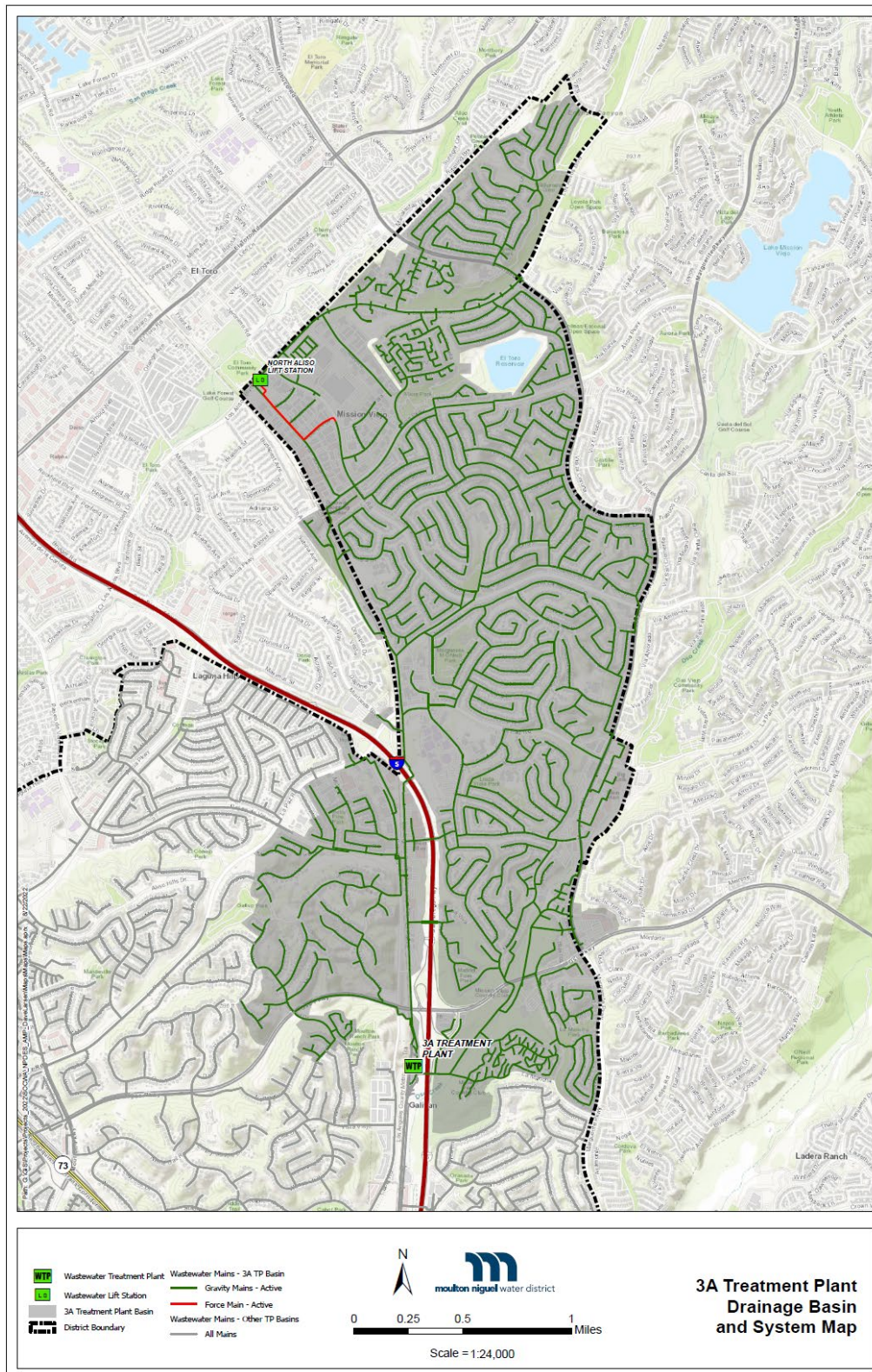
Appendix A - Overview of SJCOO Discharge Facility Infrastructure in Compliance with § 6.3.5.7.3.

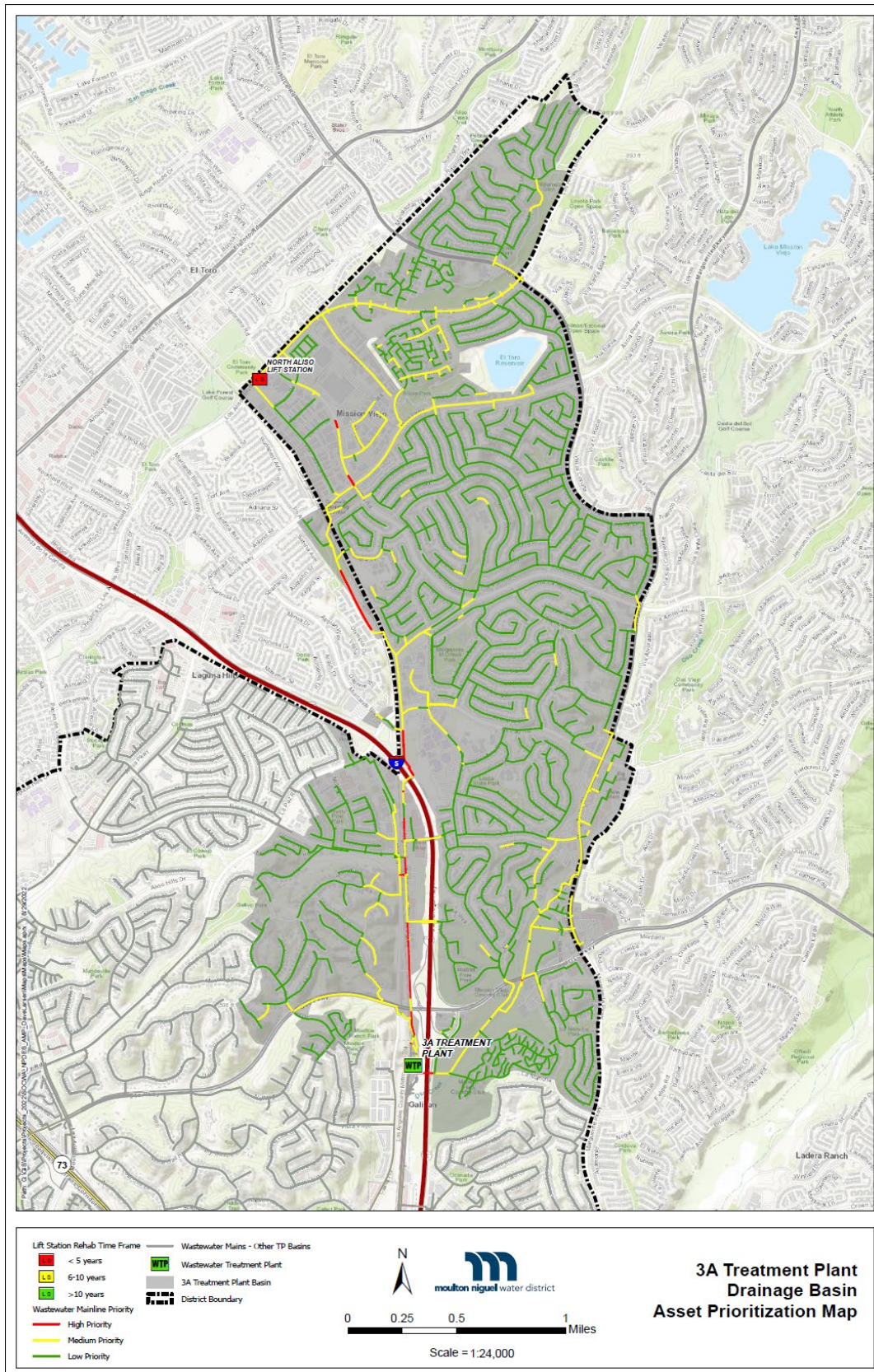
CSC – The City of San Clemente has a color-coded map for reference related to budgeted actions in connection with the agency's Capital Improvement Program. The map is web accessible and can be found using the following link:

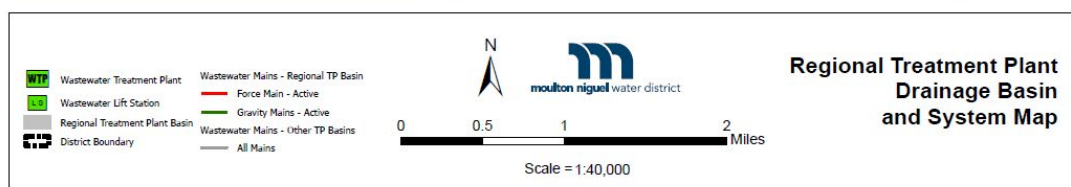
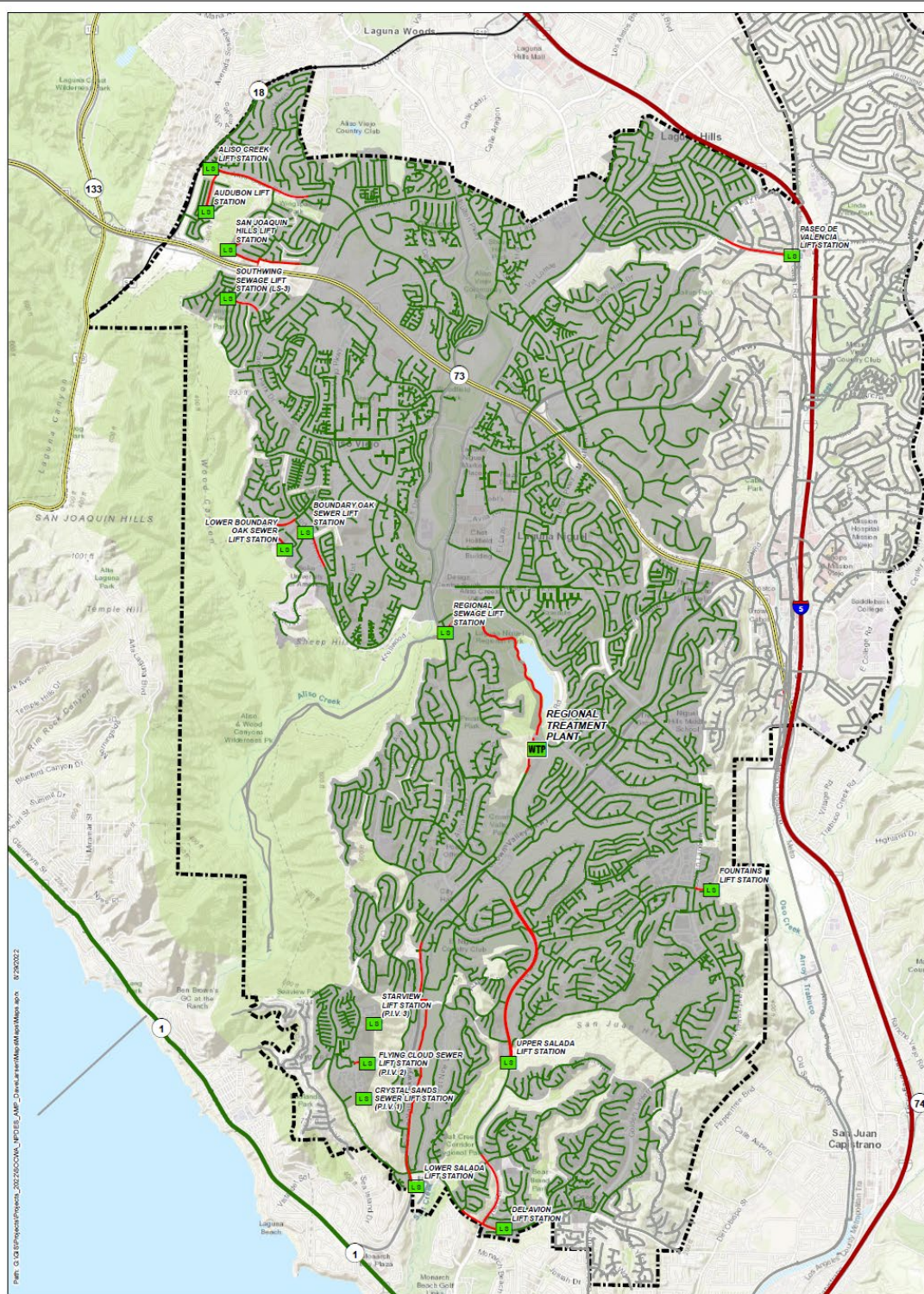
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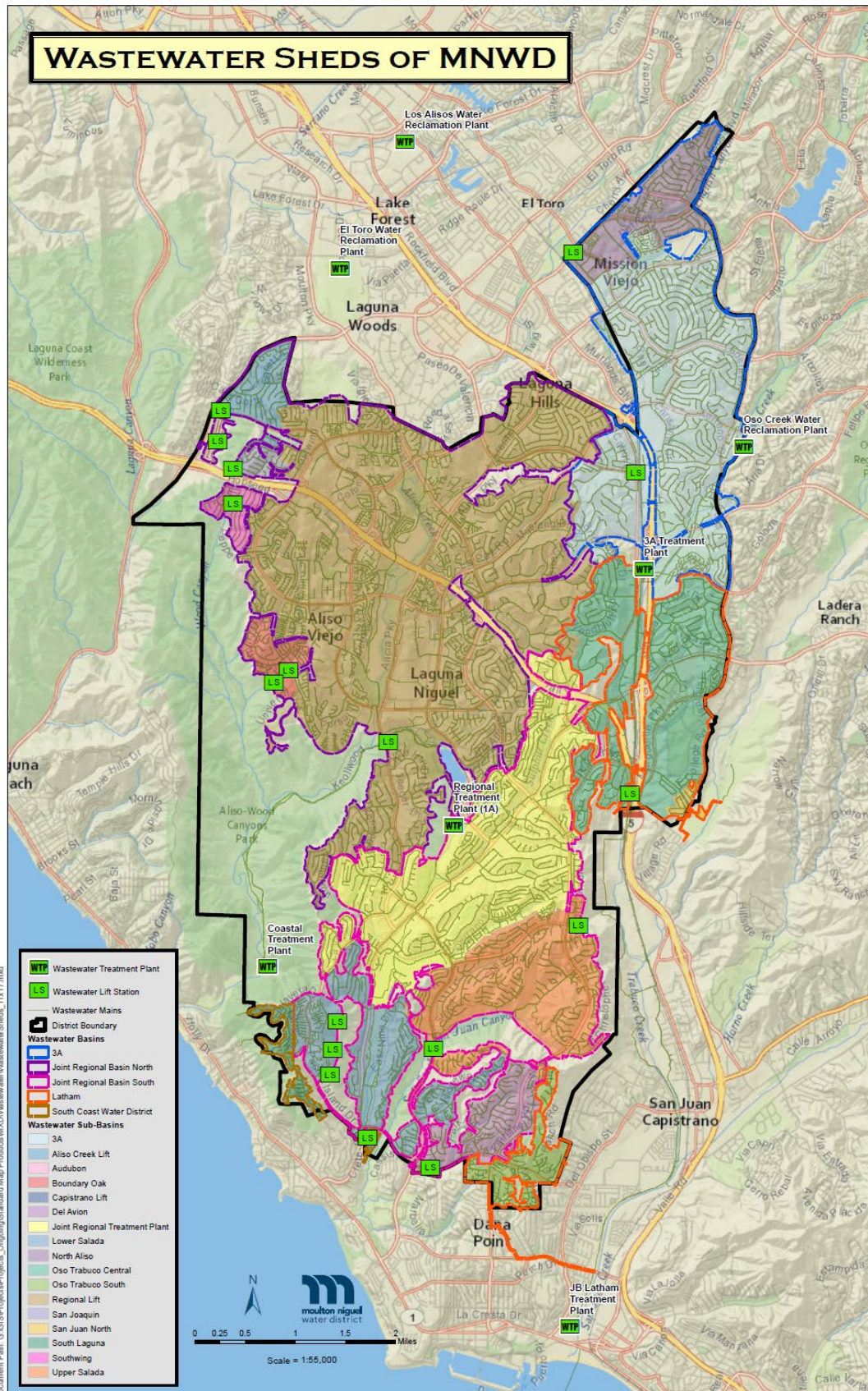
MNWD Maps







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SOCWA – Please note that SOCWA does not oversee or maintain any collection systems within the sewersheds to the JB Latham Treatment Plant in compliance with Statewide Sanitary Sewer System Waste Discharge Requirements. Please see below for a map of the SOCWA service area below.

Appendix B – In compliance with § 6.3.5.7.1, § 6.3.5.7.2. & § 6.3.5.7.6.

CSC – Maintenance Planning Summary

FUND 054-476				Current Year Projected					Future Years						
Proj #	Description	DIV	Project Category	Budgeted	11/30/2021 YTD	Projected	Projected	Six year	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28	
				FY 21/22	Exp			Balance							FY 21/22
Maintenance & Other Projects															
21201	Computerized Maintenance Management System Implementation	Eng.	Maint.	63,850	-	63,850	63,580								
24200	Sewer System Rehabilitation			250,000	4,877	245,123	250,000	1,300,000	250,000	250,000	250,000	250,000	300,000	300,000	
28212	WRP Sluice Gate Replacements	Eng.	Maint.	214,440	24,340	190,100	214,440	500,000	500,000						
21203	Digester #2 Cleaning, Residual Disposal & Inspection	Eng.	Maint.	250,000	-	250,000	250,000	100,000	100,000						
36202	WRP Odor Scrubber Analysis	Eng.	Study	12,600	-	12,600	12,600								
New	Centrifuge Conveyor Improvements							300,000							
Future	Sewer Asset Management					-		50,000			50,000				
12208	WRP Ferric Tank Replacement	Eng.	Maint.	150,000	4,289	145,711	150,000	0							
21205	WRP and Sewer Facility Pavement Rehabilitation	Eng.		299,700	-	299,700	299,700	200,000				200,000			
Total M & O Projects				\$1,240,590	\$33,506	\$1,207,084	\$1,240,320	\$2,150,000	\$1,150,000	\$250,000	\$300,000	\$450,000	\$300,000	\$300,000	

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MNWD – 1: Capital Improvement Plan Summaries

FY 2022-23 | 10-YEAR CAPITAL IMPROVEMENT PROGRAM

PROJECT NO.	FUND	PROJECT NAME	PROJECT STATUS/ PRIORITY	TOTAL PROJECT BUDGET	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26 to 2031-32
MULTI-SYSTEM								
2011077	14	MOULTON PEAK RADIO TOWER REPLACEMENT	CONSTRUCTION	\$732,504	\$30,000			
2021017	7	WAREHOUSE STORAGE AND FUNCTIONAL IMPROVEMENTS	CONSTRUCTION	\$250,000	\$150,000			
2011024	7	DOCUMENT MANAGEMENT SYSTEM UPGRADE	DESIGN	\$389,000	\$100,000	\$150,000	\$30,000	
2020019	7	SCADA COMMUNICATIONS NETWORK IMPROVEMENTS	DESIGN	\$485,000	\$460,000			
	1	CAPITAL OUTLAYS - FUND 1	PROGRAM	\$6,500,000	\$1,250,000	\$1,250,000	\$500,000	\$3,500,000
	7	OPERATIONS-LED CAPITAL IMPROVEMENTS - MS	PROGRAM	\$500,000		\$50,000	\$500,000	\$350,000
2019004	7	RISK AND RESILIENCY ASSESSMENT AND ENHANCEMENT		\$210,600	\$50,000	\$110,600		
2021014	7	DOCUMENT STORAGE FACILITY IMPROVEMENTS		\$150,000				\$150,000
2021019	14	VIDEO SITE SURVEILLANCE SYSTEM		\$500,000	\$150,000	\$150,000	\$150,000	\$50,000
2022000	7	2022-23 OPERATIONS-LED CAPITAL IMPROVEMENTS - MS	NEW	\$100,000	\$100,000			
	7	BILLING SYSTEM UPGRADE	NEW	\$1,000,000	\$150,000	\$400,000	\$450,000	
	7	CMMS PHASE II IMPLEMENTATION/INTEGRATION	NEW	\$300,000	\$300,000			
	7	SCADA COMMUNICATIONS POLE REPLACEMENTS	NEW	\$250,000	\$250,000			
	14	SECURITY IMPROVEMENTS AT CAMINO CAPISTRANO	NEW	\$400,000	\$400,000			
Subtotal - Multi-System Projects					\$3,390,000	\$2,110,600	\$1,630,000	\$4,050,000
POTABLE								
2018007	7	RESERVOIR MANAGEMENT SYSTEM REPLACEMENT PHASE 3	CONSTRUCTION	\$8,219,756	\$2,750,000			
2019030	7	PW STEEL RESERVOIR SEISMIC RETROFITS	CONSTRUCTION	\$5,862,381	\$3,500,000	\$700,000		
2015006	7	I.D. NO. 1 MASTER METER RELOCATION	DESIGN	\$2,100,000	\$900,000	\$1,000,000		
2017016	12	SOUTH COUNTY PIPELINE TAKEOUT FACILITY	DESIGN	\$10,200,000	\$500,000	\$1,000,000	\$2,000,000	\$6,500,000
2017019	14	1050-ZONE SECONDARY FEED PUMP STATION AND TRANSMISSION MAIN	DESIGN	\$7,900,000	\$500,000	\$4,000,000	\$2,900,000	
2019003	7	BLACKBIRD AND SOLITAIRE EASEMENT PIPELINE REHABILITATION/REPLACEMENT	DESIGN	\$500,000	\$400,000			
2019029	7	RESERVOIR MANAGEMENT SYSTEM REPLACEMENT PHASE 4	DESIGN	\$6,350,000	\$1,200,000	\$2,500,000	\$2,500,000	
2019037	7	CROWN VALLEY PARKWAY TRANSMISSION MAIN LOWER REACH REPLACEMENT	DESIGN	\$6,000,000	\$1,200,000	\$3,000,000	\$1,500,000	
2020013	7	EAST ALISO CREEK RESERVOIR INLET AND OUTLET PIPING MODIFICATIONS	DESIGN	\$660,000	\$550,000			
2020018	7	RESERVOIR MANAGEMENT SYSTEM REPLACEMENT PHASE 5	DESIGN	\$8,970,000	\$500,000	\$2,000,000	\$4,300,000	\$2,000,000
2022001	7	2022-23 VALVE REPLACEMENT - PW	DESIGN	\$4,800,000	\$3,200,000	\$1,500,000		
	7	FIRE HYDRANT REPLACEMENT PROGRAM	PROGRAM	\$1,800,000		\$200,000	\$200,000	\$1,400,000
	7	METER REPLACEMENT PROGRAM - PW	PROGRAM	\$4,500,000		\$500,000	\$500,000	\$3,500,000
	7	OPERATIONS-LED CAPITAL IMPROVEMENTS - PW	PROGRAM	\$4,500,000		\$500,000	\$500,000	\$3,500,000
	7	PIPELINE REHABILITATION AND REPLACEMENT PROGRAM - PW	PROGRAM	\$100,000,000				\$100,000,000
	7	RESERVOIR RECOATING PROGRAM - PW	PROGRAM	\$8,000,000			\$1,000,000	\$7,000,000
	7	SERVICE LINE REPLACEMENT PROGRAM - PW	PROGRAM	\$18,000,000		\$2,000,000	\$2,000,000	\$14,000,000
	7	VALVE REPLACEMENT PROGRAM - PW	PROGRAM	\$25,000,000			\$2,250,000	\$22,750,000
	7	VERTICAL ASSETS REHABILITATION AND REPLACEMENT PROGRAM - PW	PROGRAM	\$37,000,000		\$250,000	\$750,000	\$11,000,000
2018004	7	ELECTRICAL SYSTEM IMPROVEMENTS PHASE 2 - PW		\$1,500,000		\$200,000	\$800,000	\$500,000
2018014	7	APPURTENANCE ADJUSTMENTS FOR CROWN VALLEY PARKWAY WIDENING		\$200,000		\$40,000	\$160,000	
2018017	7	MIRA VISTA AND VISTA LADERA EASEMENT PIPELINE REHABILITATION/REPLACEMENT		\$400,000		\$75,000	\$325,000	
2018021	7	SHEEP HILLS PUMP STATION IMPROVEMENTS		\$1,400,000				\$1,400,000
2018025	14	750-ZONE PW SYSTEM EXTENSION AT SALT SPRAY DRIVE		\$400,000				\$400,000
2019005	7	EAST ALISO CREEK RESERVOIR SITE PAVING REPLACEMENT		\$125,000		\$125,000		
2020017	7	REHABILITATION OF THE MARGUERITE RESERVOIR		\$995,000	\$20,000	\$700,000	\$275,000	
2020020	7	SHEEP HILLS RESERVOIR FENCE REPLACEMENT		\$50,000	\$50,000			
2021016	7	SUBSIDENCE MITIGATION AT EAST ALISO, MARGUERITE, AND EL DORADO SITES		\$250,000	\$50,000	\$200,000		
OCWD	12	OCWD BASIN EMERGENCY INTERCONNECTION		\$20,000,000	\$500,000	\$1,000,000	\$500,000	\$18,000,000
	7	450-ZONE ALISO CREEK PW PIPELINE RELOCATION		\$420,000				\$420,000
	14	750-ZONE BEACON-RANCHO IMPROVEMENTS		\$1,500,000				\$1,500,000
	7	BEAR BRAND PUMP STATION PUMP REPLACEMENT		\$600,000				\$600,000
	12	CIP TAKEOUT FACILITY AT MARGUERITE PUMP STATION		\$5,000,000				\$5,000,000
	7	CROWN VALLEY PARKWAY TRANSMISSION MAIN UPPER REACH REHABILITATION		\$10,000,000				\$10,000,000
	7	CROWN VALLEY RESERVOIR NO. 3 ROOF PLATE REPLACEMENT AND INTERIOR RECOATING		\$1,020,000				\$1,020,000

FY 2022-23 | 10-YEAR CAPITAL IMPROVEMENT PROGRAM

PROJECT NO.	FUND	PROJECT NAME	PROJECT STATUS/ PRIORITY	TOTAL PROJECT BUDGET	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26 to 2031-32
		7 ELECTRICAL SYSTEM IMPROVEMENTS PHASE 3 - PW		\$700,000			\$100,000	\$600,000
		7 HIDDEN HILLS AND LAGUNA SERRANO APARTMENTS PIPELINE REPLACEMENT		\$360,000			\$60,000	\$300,000
		6 LOW RESOLUTION METER REPLACEMENT		\$2,000,000	\$1,000,000	\$1,000,000		
		14 PORTABLE GENERATOR CONNECTIONS AT PRIORITY POTABLE WATER PUMP STATIONS		\$160,000				\$160,000
		14 RANCHO CAPISTRANO 450-ZONE LOOP		\$540,000				\$540,000
		14 RANCHO CAPISTRANO 450-ZONE SERVICE		\$300,000				\$300,000
		14 ROLLING HILLS PUMP STATION AUXILIARY GENERATOR		\$850,000				\$850,000
		7 SADDLEBACK RESERVOIR SITE PAVING REPLACEMENT		\$125,000				\$125,000
		7 SOUTHWESTERN TRANSMISSION MAIN REHABILITATION		\$7,000,000			\$400,000	\$6,500,000
		7 2022-23 FIRE HYDRANT REPLACEMENT	NEW	\$200,000	\$200,000			
		7 2022-23 METER REPLACEMENT - PW	NEW	\$990,000	\$990,000			
		14 2022-23 NEW SYSTEM VALVES	NEW	\$250,000	\$250,000			
2022100		7 2022-23 OPERATIONS-LED CAPITAL IMPROVEMENTS - PW	NEW	\$650,000	\$650,000			
		7 2022-23 PRESSURE REDUCING STATION REHABILITATION - PW	NEW	\$230,000	\$50,000	\$180,000		
		7 2022-23 SERVICE LINE REPLACEMENT - PW	NEW	\$2,000,000	\$2,000,000			
		7 2023-24 VALVE REPLACEMENT - PW	NEW	\$3,250,000	\$100,000	\$2,150,000	\$1,000,000	
		7 ALISO VIEJO MOV REPLACEMENT	NEW	\$675,000				\$675,000
		7 CASA DEL OSO PUMP STATION AUXILIARY GENERATOR REPLACEMENT	NEW	\$850,000		\$100,000	\$250,000	\$500,000
		7 COUNTRY VILLAGE PUMP STATION AUXILIARY GENERATOR REPLACEMENT	NEW	\$850,000		\$100,000	\$250,000	\$500,000
		7 EASTERN TRANSMISSION MAIN REHABILITATION	NEW	\$500,000	\$500,000			
		7 EASTERN TRANSMISSION MAIN REHABILITATION - SMWD REIMBURSEMENT	REIMBURSEMENT	-\$350,000	-\$350,000			
		7 HIGH-LOW VALVE REPLACEMENT	NEW	\$1,125,000				\$1,125,000
		7 LA PAZ AND CABOT PW PIPELINE REPLACEMENT	NEW	\$1,250,000				\$1,250,000
Subtotal - Potable Projects					\$21,210,000	\$25,020,000	\$24,520,000	\$223,915,000
RECYCLED								
2010013		6 RWOS - LA PAZ ROAD BRIDGE CROSSING RW PIPELINE	CONSTRUCTION	\$723,034	\$500,000			
2021009		7 2021-22 PRESSURE REDUCING STATION REHABILITATION - RW	CONSTRUCTION	\$200,000	\$160,000			
2018005		7 ELECTRICAL SYSTEM IMPROVEMENTS PHASE 2 - RW	DESIGN	\$1,000,000	\$250,000	\$750,000		
		7 METER REPLACEMENT PROGRAM - RW	PROGRAM	\$495,000		\$55,000	\$55,000	\$385,000
		7 OPERATIONS-LED CAPITAL IMPROVEMENTS - RW	PROGRAM	\$2,250,000		\$250,000	\$250,000	\$1,750,000
		7 RESERVOIR RECOATING PROGRAM - RW	PROGRAM	\$2,640,000			\$330,000	\$2,310,000
		6 RWOS - RECYCLED WATER RETROFITS PROGRAM	PROGRAM	\$4,770,000		\$10,000	\$150,000	\$2,450,000
		7 SERVICE LINE REPLACEMENT PROGRAM - RW	PROGRAM	\$630,000		\$70,000	\$70,000	\$490,000
		7 VALVE REPLACEMENT PROGRAM - RW	PROGRAM	\$2,250,000		\$250,000	\$250,000	\$1,750,000
		7 VERTICAL ASSETS REHABILITATION AND REPLACEMENT PROGRAM - RW	PROGRAM	\$13,800,000		\$100,000	\$100,000	\$7,000,000
2021015		7 IMPROVEMENTS AT GALIVAN AND ALISO VIEJO RW PUMP STATIONS		\$600,000	\$75,000	\$525,000		
		7 CROWN POINT PUMP STATION PUMP REPLACEMENT AND VFD INSTALLATION		\$490,000				\$490,000
		7 ELECTRICAL SYSTEM IMPROVEMENTS PHASE 3 - RW		\$325,000			\$50,000	\$275,000
		14 GALIVAN BYPASS IMPROVEMENTS		\$225,000	\$225,000			
		7 LAGUNA NIGUEL REGIONAL PARK RW METER VAULT RECONFIGURATION		\$150,000				\$150,000
		7 OAKGROVE DRIVE RW PIPELINE REPLACEMENT		\$785,000				\$525,000
		7 REHABILITATION OF 20-INCH RW MAIN TO LAGUNA HEIGHTS RESERVOIR		\$910,000			\$75,000	\$835,000
		7 RW RESERVOIR DRAINAGE IMPROVEMENTS AT 3 SITES		\$725,000				\$725,000
		6 RWOS - RW MAIN REPLACEMENT FROM CABOT ROAD TO GALIVAN PS		\$850,000				\$850,000
		6 RWOS - RW MAIN REPLACEMENT FROM CROWN VALLEY RESERVOIR TO CABOT ROAD		\$1,725,000				\$1,725,000
		7 RWOS - RW MAIN REPLACEMENT FROM GALIVAN PS TO LA PAZ PS		\$11,000,000				\$11,000,000
		7 2022-23 METER REPLACEMENT - RW	NEW	\$125,000	\$125,000			
2022200		7 2022-23 OPERATIONS-LED CAPITAL IMPROVEMENTS - RW	NEW	\$200,000	\$200,000			
		7 2022-23 PRESSURE REDUCING STATION REHABILITATION - RW	NEW	\$100,000	\$50,000	\$50,000		
		6 2022-23 RECYCLED WATER RETROFITS	NEW	\$10,000	\$10,000			
		7 2022-23 SERVICE LINE REPLACEMENT - RW	NEW	\$70,000	\$70,000			
		7 2022-23 VALVE REPLACEMENT - RW	NEW	\$250,000	\$250,000			
Subtotal - Recycled Projects					\$1,915,000	\$2,060,000	\$1,330,000	\$26,410,000

FY 2022-23 | 10-YEAR CAPITAL IMPROVEMENT PROGRAM

PROJECT NO.	FUND	PROJECT NAME	PROJECT STATUS/ PRIORITY	TOTAL PROJECT BUDGET	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26 to 2031-32
WASTEWATER								
2012024	7	UPPER SALADA LIFT STATION AUXILIARY GENERATOR REPLACEMENT	CONSTRUCTION	\$1,266,318	\$250,000			
2018024	7	VALENCIA LIFT STATION MANHOLE DIVERSIONS	CONSTRUCTION	\$250,000	\$150,000			
2013004	7	REGIONAL LIFT STATION FORCE MAIN REPLACEMENT	DESIGN	\$19,200,000	\$1,000,000	\$4,000,000	\$8,000,000	\$4,900,000
2013005	7	LOWER SALADA LIFT STATION FORCE MAIN REPLACEMENT	DESIGN	\$9,200,000	\$1,800,000	\$5,000,000	\$2,000,000	
2019007	7	NORTH ALISO LIFT STATION RECONSTRUCTION	DESIGN	\$6,000,000	\$300,000	\$1,500,000	\$3,000,000	\$1,000,000
2020009	7	NIGUEL WEST SEWER LINING	DESIGN	\$1,500,000	\$100,000	\$800,000	\$600,000	
2021011	7	ALISO CREEK LIFT STATION REHABILITATION	DESIGN	\$3,900,000	\$300,000	\$1,500,000	\$2,000,000	
	7	MANHOLE REHABILITATION PROGRAM	PROGRAM	\$2,250,000		\$250,000	\$250,000	\$1,750,000
	7	OPERATIONS-LED CAPITAL IMPROVEMENTS - WW	PROGRAM	\$4,500,000		\$500,000	\$500,000	\$3,500,000
	7	PIPELINE REHABILITATION AND REPLACEMENT PROGRAM - WW	PROGRAM	\$8,000,000				\$8,000,000
	7	VERTICAL ASSETS REHABILITATION AND REPLACEMENT PROGRAM - WW	PROGRAM	\$31,800,000			\$800,000	\$25,000,000
2011043	14	3A OUTFALL LINE VALVES		\$450,000				\$450,000
2011043	14	3A OUTFALL LINE VALVES - SMWD REIMBURSEMENT	REIMBURSEMENT	-\$225,000				-\$225,000
2018028	7	UPPER SALADA LIFT STATION BYPASS IMPROVEMENTS		\$300,000				\$250,000
2020015	7	LIFT STATION VENTILATION SYSTEM IMPROVEMENTS		\$650,000	\$100,000	\$500,000	\$50,000	
	7	3A ETM CREEK BANK STABILIZATION		\$2,000,000				\$2,000,000
	7	3A ETM REPLACEMENT AVENIDA DE LA VISTA		\$2,475,000				\$2,475,000
	7	3A ETM REPLACEMENT CAMINO CAPISTRANO		\$3,500,000				\$3,500,000
	7	3A ETM REPLACEMENT SAN JUAN CREEK COUNTY OF ORANGE PHASE VIII		\$900,000				\$900,000
	7	3A ETM IMPROVEMENTS - SMWD REIMBURSEMENT	REIMBURSEMENT	-\$4,437,500				-\$4,437,500
	14	LOWER SALADA LIFT STATION OVERFLOW WETWELL		\$1,250,000			\$150,000	\$1,100,000
	7	MANHOLE ADJUSTMENTS ON OSO-TRABUCO INTERCEPTOR SEWER		\$260,000				\$260,000
	7	MANHOLE ADJUSTMENTS ON OSO-TRABUCO INTERCEPTOR SEWER - SMWD REIMBURSEMENT	REIMBURSEMENT	-\$155,662				-\$155,662
	7	UPPER SALADA LIFT STATION FORCE MAIN REHABILITATION AND REPLACEMENT		\$6,000,000				\$6,000,000
	7	2022-23 MANHOLE REHABILITATION	NEW	\$250,000	\$250,000			
2022400	7	2022-23 OPERATIONS-LED CAPITAL IMPROVEMENTS - WW	NEW	\$500,000	\$500,000			
	7	LOWER SALADA LIFT STATION AUXILIARY GENERATOR REPLACEMENT	NEW	\$400,000	\$50,000	\$200,000	\$150,000	
	7	TRACT NO. 4096 SEWER JOINT GROUTING	NEW	\$2,800,000	\$100,000	\$1,200,000	\$1,500,000	
	7	UPPER BOUNDARY OAK LIFT STATION AUXILIARY GENERATOR REPLACEMENT	NEW	\$850,000	\$100,000	\$500,000	\$250,000	
	14	WASTEWATER TRUNK MAIN REPLACEMENT - 3A SUBBASIN PHASE 1	NEW	\$1,200,000	\$50,000	\$300,000	\$850,000	
	14	WASTEWATER TRUNK MAIN REPLACEMENT - 3A SUBBASIN PHASE 2	NEW	\$1,400,000	\$100,000	\$300,000	\$1,000,000	
Subtotal - Wastewater Projects					\$5,150,000	\$16,550,000	\$21,100,000	\$56,266,838
PLANT 3A								
2019301	7	PLANT 3A SUBSIDENCE MITIGATION	CONSTRUCTION	\$4,800,000	\$4,000,000			
2019302	7	PLANT 3A SOLIDS HANDLING FACILITIES IMPROVEMENTS	DESIGN	\$47,800,000	\$10,000,000	\$20,000,000	\$16,250,000	
2021303	14	PLANT 3A SOLIDS LOADOUT FACILITY	DESIGN	\$9,800,000	\$2,000,000	\$4,000,000	\$3,500,000	
	7	OPERATIONS-LED CAPITAL IMPROVEMENTS - 3A	PROGRAM	\$2,250,000		\$250,000	\$250,000	\$1,750,000
2021301	7	PLANT 3A ODOR CONTROL SYSTEM EVALUATION AND REHABILITATION		\$1,250,000	\$150,000	\$1,100,000		
2021302	14	PLANT 3A SECURITY IMPROVEMENTS		\$125,000	\$75,000	\$50,000		
	7	PLANT 3A LIQUIDS HANDLING FACILITIES IMPROVEMENTS		\$24,000,000	\$250,000	\$1,250,000	\$1,500,000	\$21,000,000
	14	PLANT 3A EMERGENCY STANDBY GENERATOR		\$1,500,000				\$1,500,000
2022300	7	2022-23 OPERATIONS-LED CAPITAL IMPROVEMENTS - 3A	NEW	\$750,000	\$750,000			
	14	PLANT 3A NETWORK CABLING IMPROVEMENTS	NEW	\$150,000	\$150,000			
	7	PLANT 3A IMPROVEMENTS FUNDS 7 AND 14 - SMWD REIMBURSEMENT	REIMBURSEMENT	-\$25,994,531	-\$4,886,719	-\$7,495,313	-\$6,046,875	-\$6,820,313
Subtotal - Plant 3A Projects					\$12,488,281	\$19,154,688	\$15,453,125	\$17,429,688
REGIONAL								
IRWD	7	IRWD BAKER WATER TREATMENT PLANT CAPITAL PROJECTS	PROGRAM	\$1,500,000	\$150,000	\$150,000	\$150,000	\$1,050,000
JRWSS	7	SCWD/JRWSS CAPITAL PROJECTS	PROGRAM	\$7,453,323	\$2,699,476	\$884,160	\$1,014,173	\$2,855,514
SMWD	7	SMWD CAPITAL PROJECTS - JOINT FACILITIES	PROGRAM	\$2,615,375	\$375,375	\$840,000	\$0	\$1,400,000
SOCWA	7	SOCWA CAPITAL PC 2	PROGRAM	\$19,431,545	\$1,251,793	\$1,684,714	\$1,430,708	\$15,064,331
SOCWA	7	SOCWA CAPITAL PC 5	PROGRAM	\$249,275	\$37,827	\$0	\$5,280	\$206,168
SOCWA	7	SOCWA CAPITAL PC 15	PROGRAM	\$11,289,736	\$1,496,498	\$1,539,761	\$608,576	\$7,644,901
SOCWA	7	SOCWA CAPITAL PC 17	PROGRAM	\$73,338,463	\$7,370,519	\$7,057,618	\$8,751,783	\$50,158,543

FY 2022-23 | 10-YEAR CAPITAL IMPROVEMENT PROGRAM

PROJECT NO.	FUND	PROJECT NAME	PROJECT STATUS/ PRIORITY	TOTAL PROJECT BUDGET	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26 to 2031-32
SOCWA	7	SOCWA CAPITAL PC 21	PROGRAM	\$1,661,144	\$189,423	\$26,710	\$0	\$1,445,011
SOCWA	7	SOCWA CAPITAL PC 24	PROGRAM	\$3,113,644	\$75,447	\$78,457	\$21,924	\$2,937,816
ETWD	7	ETWD R6 RESERVOIR COVER AND LINER REPLACEMENT		\$1,218,000	\$1,122,000	\$60,000		
Subtotal - Regional Projects					\$14,768,358	\$12,321,420	\$11,982,443	\$82,762,284
TOTAL					\$58,921,639	\$77,216,707	\$76,015,568	\$410,833,810

NOTE: TOTAL 10-YEAR CIP PROJECTION (FY 2022-23 THROUGH FY 2031-32) = \$622,987,724

MNWD -2 NexGen Asset Management Examples



Asset Details



GENRTR000152

Name Generator
Description Generator Building
Active ☒
Class Equipment|Electrical|Generator
Location Facilities/Stations|Regional Lift Station
 Site|Regional Lift Station

DETAILS

Department
Division
Purchase Date
Install Date 1/1/1999
Warranty Expires
Purchase Cost \$0.00
Book Value
Replace Cost \$0.00
Replace Cost Updated
Notes



Location Details

Address 28386 Alicia Parkway
Phone1 **Phone2**
City Laguna Niguel **State** California
Country United States
Zip 92677 **Fax**
Email

Asset Attributes

Manufacturer	Caterpillar	Model	SR4B
Manufacturer SN	200782	Size 1	1250
Unit 1	kVA	Size 2	480
Unit 2	V	System	Wastewater
Size 3	1503	Unit 3	Amp
Tabware Legacy ID	1S-RL-GEN1	As Built Sheet Nbr	Alicia Parkway Regional Sewage Lift Station - Electrical Sectional Map - E-19D
As Built File Name	WW_E19-D	Owner	MNWD

WORK ORDER

Number	Date	Main Task	Type	Status	Description	Total Cost
WO-10197	8/1/2022	Auxiliary Testing	Preventive	Close		\$89.60
WO-09041	7/1/2022	Auxiliary Testing	Preventive	Close		\$86.12
WO-08086	6/1/2022	Auxiliary Testing	Preventive	Close		\$107.65
WO-07035	5/4/2022	Cooling System	Reactive	Close		\$85.28
WO-07034	5/4/2022	Cooling System	Reactive	Cancel		\$0.00
WO-06726	5/1/2022	Auxiliary Testing	Preventive	Close		\$68.46
WO-06600	4/27/2022	Engine	Reactive	Close		\$51.16
06373	4/19/2022	Repair	Reactive	Close	Repair	\$0.00
05956	4/1/2022	Auxiliary Engine Service	Preventive	Cancel		\$0.00
05901	4/1/2022	Auxiliary Testing	Preventive	Close		\$86.12
05198	3/1/2022	Auxiliary Testing	Preventive	Close		\$86.12

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WORK ORDER						
Number	Date	Main Task	Type	Status	Description	Total Cost
04626	2/1/2022	Auxiliary Testing	Preventive	Close		\$86.12
04438	1/25/2022	Unknown Problem	Reactive	Close		\$34.11
03522	1/1/2022	Auxiliary Testing	Preventive	Close		\$76.52
02888	12/1/2021	Auxiliary Testing	Preventive	Close		\$144.98
02270	11/1/2021	Auxiliary Testing	Preventive	Close		\$86.12
01466	10/1/2021	Auxiliary Testing	Preventive	Close		\$125.85
00130	4/1/2021	Auxiliary Engine Service	Preventive	Cancel		\$0.00
						<u>\$1,214.21</u>

PREVENTIVE MAINTENANCE					
Number	Name	Task Name	Type	Lead	Description
Fleet 00048	Auxiliary Engine Service - Regional Lift Station	Auxiliary Engine Service	Preventive		Regional Lift Station
SMaint 00118	Auxiliary Testing - Regional	Auxiliary Testing	Preventive		Regional

CONDITION ASSESMENT			
Number	Type	Date	Comments
03613		3/11/2021	



Asset Details



BLOWER000003

Name Blower 3 - Aeration
Description Secondary Treatment
Active ☒
Class Equipment[Mechanical]Aeration Blower[Multistage Centrifugal Aeration Blower]
Location Facilities/Stations|3A Treatment Plant|30000 - Secondary Treatment

DETAILS

Department
Division
Purchase Date
Install Date 3/7/2022
Warranty Expires
Purchase Cost \$3,498.20
Book Value
Replace Cost \$0.00
Replace Cost Updated
Notes



Location Details

Address 26801 Camino Capistrano
Phone1 **Phone2**
City Mission Viejo **State** California
Country United States
Zip 92691 **Fax**
Email

Asset Attributes

Manufacturer	Spencer	Model	C441A1
Manufacturer SN	825402K21	Unit 1	CFM
Size 2	3565	System	Wastewater
Unit 2	RPM		

WORK ORDER

Number	Date	Main Task	Type	Status	Description	Total Cost
WO-10900	8/17/2022	PLC Panel	Reactive	Complete		
WO-10410	8/1/2022	Liquids-Aeration Blower 1-3	Preventive	Close		\$59.73
						\$59.73

PREVENTIVE MAINTENANCE

Number	Name	Task Name	Type	Lead	Description
SMaint Plant 3A 00054	Liquids-Aeration Blower 1-3	Liquids-Aeration Blower 1-3	Preventive		

COMMENTS

Created By	Created Date	Comment
DCollom	3/7/2022	WO Number : 04424, WO Date : 01/24/2022 03:07 PM, Lead Worker : Jason Boyce, Supervisor : Larry A Ballew





Asset Details



PUMPNG000025

Name Pump 1
Description Pump Building_Pump 1 Assembly
Active ☒
Class Equipment[Mechanical]Pump[Vertical Pump]
Location Facilities/Stations[Del Avion Lift Station Site]Del Avion Lift Station

DETAILS

Department
Division
Purchase Date
Install Date 1/1/1995
Warranty Expires
Purchase Cost \$0.00
Book Value \$0.00
Replace Cost \$0.00
Replace Cost Updated
Notes



Location Details

Address 24881 Camino Del Avion
Phone1 **Phone2**
City Dana Point **State** California
Country United States
Zip 92629 **Fax**
Email

Asset Attributes

Manufacturer Fairbanks Morse **Model** Vertical Turbine
Manufacturer SN 1469752-1 **Size 1** 4
Unit 1 Inch **System** Wastewater
Material CI **As Built File Name** F320001C
Owner MNWD
GlobalID (Survey) {B9B0333A-AACD-4BE9-BE37-C1390FE84631}

WORK ORDER

Number	Date	Main Task	Type	Status	Description	Total Cost
WO-10258	8/1/2022	Pump Inspection	Preventive	Close		\$9.95
WO-06787	5/1/2022	Pump Inspection	Preventive	New		\$0.00
04661	2/1/2022	Pump Inspection	Preventive	Close		\$12.76
02305	11/1/2021	Pump Inspection	Preventive	Cancel		\$0.00
02123	11/1/2021	Pump Inspection	Preventive	Cancel		\$0.00
01929	10/21/2021	Pumps	Reactive	Close		\$503.47
						\$526.18

PREVENTIVE MAINTENANCE

Number	Name	Task Name	Type	Lead	Description
SMaint 00018	Quarterly Pump Inspection	Pump Inspection	Preventive		
SMaint 00190	Quarterly Pump Inspection - Del Avion	Pump Inspection	Preventive		Del Avion



CONDITION ASSESMENT

Number	Type	Date	Comments
01337		3/11/2021	

SCWD







SCWD provides annual budgeting for maintenance of facilities included in the table below.

WATER OPERATING EXPENDITURES

	FY 2021 Actuals	FY 2022 Revised Budget	FY 2022 Actuals YTD (April 29, 2022)	FY 2022 Projected Expenditures	FY 2023 Proposed Expenditures	Difference	% Change
Water Operations							
Cross Connection	\$ 167,100	\$ 178,160	\$ 164,152	\$ 207,490	\$ 196,527	\$ (10,964)	-5%
GRF POCHE	107,345	81,938	69,436	98,645	85,000	(13,645)	-14%
GRF SCOTF	66,214	75,000	52,546	65,082	78,000	12,918	20%
Ground Water Recovery	663,499	738,407	591,592	709,551	744,357	34,806	5%
Meters	65,790	168,872	72,431	92,524	107,625	15,101	16%
Monitoring Wells	107,525	107,407	50,743	63,845	77,722	13,877	22%
Reservoir Management System	273,771	290,075	237,234	293,973	365,386	71,413	24%
Reservoirs and Tanks	173,975	256,715	147,507	167,952	232,360	64,408	38%
Water Pump Plants	396,929	451,552	297,459	370,262	543,122	172,861	47%
Water Sampling	185,592	190,294	135,459	181,571	182,188	616	0%
Water Supply & Purchases	6,674,732	6,565,780	4,767,212	6,337,621	7,069,036	731,415	12%
Water Transmission Lines	2,061,792	2,173,522	1,573,694	1,988,379	2,146,525	158,146	8%
	10,944,263	11,277,722	8,159,465	10,576,894	11,827,848	1,250,953	12%

Sharepoint Comprehensive Asset Management Program (CAMP) Project Example


CIP List - CHIQT-02-23002

VIEW	
 Edit Item	 Version History
 Shared With	 Alert Me
 Delete Item	 Approve/Reject
Manage	Actions

CIP Budget Type	CRP
Basic Code	CHIQT-02-C-006
Manager	Patterson, Jason; Butler, Tricia
Project Name	CWRP - Replace orig Prim, Sec, Tert MCCs
Facility Name	Chiquita Water Reclamation Plant
CRP Budget Type	04 - Chiquita Water Reclamation Plant
Total Budget	\$2,450,000
SMWD Budget Share (if less than 100%)	
Start	2021
End	2024
Munis Project Code	CHIQT0206C
SearchField	CHIQT0206C
Ongoing	
Estimated FY20 Spend	
Estimated FY21 Spend	
Estimated FY22 Spend	
Estimated FY23 Spend	\$1,600,000.00
Estimated FY24 Spend	\$850,000.00

Attachment B – SMWD -1

Sharepoint Comprehensive Asset Management Program (CAMP) Project Example

Background	The first phase of the Chiquita Water Reclamation Plant was built in the 1980s. The electrical components in order to support the preliminary, primary, secondary, and tertiary treatment processes have been in place since then. There are seven MCCs that need to be replaced at an average cost of \$350k.
Justification	The electrical equipment has become obsolete and spare parts are no longer available.
Notes	<div><input type="checkbox"/> Stewart, Bryan (11/22/2021 10:07 AM):</div> <div></div>
Contract #	C-1241U.015
Improvement District	2 - Coto de Caza; 4A - Rancho Santa Margarita; 4B - Las Flores; 4C - Esencia; 4D - Ladera Ranch; 4E - Sendero; 5 - PA3; 6 - PA4/PA5/PA8
Project Status	Feasibility Study/Condition Assessment
Vendor Info	
Capitalized/Expensed	
Approval Status	Pending
Attachments	20200213090738 2.pdf 20200219 - TB Edits 83.pdf TimePhoto_20180308_093625.jpg
Content Type: Item Version: 33.0 Created at 2/6/2019 2:54 PM by <input type="checkbox"/> System Account Last modified at 1/26/2022 3:04 PM by <input type="checkbox"/> Butler, Tricia	

Close

Appendix B – SMWD-2



Mainstar CMMS Program – Preventative Maintenance Work Order Examples

Example Facility: Horno Lift Station

List of Work Orders associated with the facility:

CAL-GASD-002_SWR0013632	Stationary Gas Detector 90 Day Calibration
HRNOS71-COMP-3M_SWR0018132	Horno LS Quarterly Compressor Maintenance
HRNOS71-GEN-1Y_SWR0018132	Horno LS Yearly Generator Maintenance
HRNOS71-GEN-1Y_SWR0017367	Horno LS Generator Maintenance – 3 Year
HRNOS71-GEN-14D_SWR0019973	Horno LS 14 Day Generator Maintenance
HRNOS71-MONTHLY-1M_SWR0019939	Horno LS Monthly Maintenance
HRNOS71-VENT-1Y- SWR0017677	Horno LS Yearly Ventilation Filter Maintenance
HRNOS71-VENT-3M- SWR0018620	Horno LS Ventilation Fan Maintenance – 3 month
HRNOS71-WW-3M- SWR0019914	Horno LS Monthly Wet Well Maintenance
HRNOS71-PUMPMaint-6M_SWR0016948	Horno LS Pump Maintenance – 6 month

Below is the detail associated with work order HRNOS71-MONTHLY-1M_SWR0019939 Horno LS Monthly Maintenance

		MaintStar Sewer Work Order		Page 1 of 2 9/26/2022
		SMWD	Created By	
 W/O # SWR0019939	ADM Sys. 00001	Activity 408 MECH - MONTHLY MAINT	Priority LS	
Issued 09/06/22 07:52	Target 09/06/22 07:52	Assign to OPSMECH	Approv. By	
Closed 09/07/22 08:25	W/O Type PM	OPS MECHANICAL		
Acc. No.	Proj. No.	Map ID	Map Sheet	

Task**Descr/Complaint:****Action Taken:**

Horno L/S Monthly Maintenance

- 1. Inspect MCC panels for burnt bulbs; Replace as necessary. Clean MCC filters to maximize cooling.*
- 2. Check interior and exterior for burnt out lighting; Replace as necessary.*
- 3. Conduct Alarm Testing:*
 - P-1, P-2, P-3, P-4 Fail*
 - Float ON*
 - Auxillary Wet Well Float ON*
 - Summons for Help*
 - Dry Well Flooded*
 - High/Low Sonic (Wet well)*
 - Low Float*
- 4. Check Chart Recorder pens; Replace as necessary.*
- 5. Test Float System levels and note the set points on the work order.*
- 6. Check the condition of the Floats in the Wet well; Clean as necessary.*

DRAFT

Appendix B- SMWD-2 - Continued

Mainstar CMMS Program – Preventative Maintenance Work Order Examples

7. Check Sonic Level System for proper operation and level.
8. Inspect the condition of the Wet well including grease condition.
9. Check Gas Detector for all green lights; Replace bulbs as necessary.
10. Check Gas Detector for Current calibration. Notify Supervisor if not up to date.
11. Check the Ventilation System for proper operation. Inspect the Drive belt; Replace as necessary. (Belt# 4L-790 (2) each)
12. Check Pumps and Motors for excessive heat and vibration.
13. Exercise Suction and Discharge valves. Please note any issues with the valves.
14. Check the Compressor for proper operation. Inspect the oil level; Add as required. Clean compressor of foreign debris. Test the auto drain valve for proper operation. Drain condensation from compressor.
15. Exercise all valves in the outside vault.
16. Inspect/Test the operation of the Surge Tank System. Exercise all valves. Clean Site Glass.
17. Inspect, flush, and exercise Sump Pumps.
18. Wash down the interior and exterior of the station. Remove all trash and debris.
19. Check the Fire Extinguishers. Replace if discharged or out of range.
21. Clean station. If an outside venue, pick up trash and leaves.
22. Hose down if necessary.

Completed Monthly Maintenance. Checked off task list. Alarms tested and received. p-1,p-2,p-3 fail. high w/w low w/w, float system on, aux w/w flooded, man down, dry well flooded, single pump high flow, multi pump high flow, station low flow. Cleaned general area. Cleared and reset all alarms.

<u>Date</u>	<u>Type</u>	<u>Code / Description</u>	<u>Hours</u>	<u>Pay Type</u>	<u>Qty</u>	<u>Cost Each</u>	<u>Total Cost</u>
09/06/22 00:00	labor						
09/06/22 00:00	labor						

Labor Cost

<u>Seq</u>	<u>Asset Type</u>	<u>Asset Id</u>	<u>Rating</u>	<u>Asset Descr</u>	<u>Cst Sh</u>	<u>%</u>	<u>Block #</u>	<u>Street / Cross Street / City, State Zip</u>
1	LIFT	HORNOLS	.00	Horno LS	1.00		29595	Cambridge Rd / Michael Rd / LADERA RAN

Labor Cost		Material Cost		Equipment Cost	
Contractors Cost		Misc. Cost		Total W/O Cost	

Appendix B – SMWD - 3

MUNIS Software – Asset Detail Example

Santa Margarita Water District



CAPITAL ASSET WORKSHEET

ASSET # 00003971-011-0	MASTER ASSET	DESCRIPTION	WW SAN JUAN CREEK LS RELINE WETWELL
CLASS S SEWER PLANT	FUND SOURCE	MAINT CONT	Y
SUBCL SL SEWAGE LIFT STA	ACQUIS METH CS CONSTRUCTE	VENDOR DESC	Vendor Name Mi
COMMODITY		TYPE	P
DEPT ENG ENGINEERING	ACQUIS DATE 06/30/2020	INSURED	N
LOC CODE SJCK SAN JUAN CREEK	ACQUIS COST 66,980.74	CARRIER	
LOC MEMO	ACRES 0.000	INSURED VAL	0.00
ROOM	QTY	EXPIRE DATE	
STORAGE LOC	UNIT PRICE 0.00	ANNUAL COST	0.00
	PURCH MEMO	MEMO	
STATUS A ACTIVE			
CONDITION N NEW	SOY BOOK 66,980.74	DEPRECIATE	Y
CUSTODIAN CAPITAL ASSET CUSTODI	CURRENT BOOK 60,003.49	DEPREC PRIN	
TITLEHOLDER	EST SALVAGE 0.00	FIRST YR/PR	2020/12
	REPL COST 66,980.74	EST LIFE	20
TAG # 00003971-011-0	LAST INVENT	PERIODS TAKEN	25
SERIAL #	IMPROVE MEMO	ACCUM DEPREC	6,977.25
MANUFACTURER			
MODEL	RETIRE DATE		
MODEL YEAR	DISP CODE		
LICENSE #	DISP PRICE 0.00		
	SALE PRICE 0.00		
VEND #	PO #	DOCUMENT #	INVOICE #
		0	
			INV DATE
			INV AMT
			66,980.74

User-Defined Fields

Field Name	Value
------------	-------

GL Accounts

TYPE	ORG	OBJ	PROJ	PERCENT
Asset	00010000	160275		100.00
Contra	00010900	950175		100.00
Depreciation Expense	00010100	697701		100.00
Accumulated Depreciation	00010000	160375		100.00

PO Accounts

ORG	OBJ	PROJ	AMOUNT
00012900	950122		66,980.74

Report generated: 09/26/2022 09:26
 User: christinem
 Program ID: Famstmnt

Page 1

Appendix B – SMWD-4

Sample Condition Assessment – Excerpts



HARPER & ASSOCIATES ENGINEERING, INC.

CONSULTING ENGINEERS

1240 E. Ontario Ave., Ste. 102-312, Corona, CA 92881-8671
Phone (951) 372-9196 Fax (951) 372-9198
www.harpereng.com

CORROSION REPORT

PROJECT: Corrosion Engineering Evaluation of a Secondary Clarifier
STRUCTURE: Secondary Clarifier No. 1
OWNER: Santa Margarita Water District
LOCATION: Chiquita Water Reclamation Plant, California
REPORT BY: Andre Harper, Project Engineer
DATE: March 2022

I. GENERAL INFORMATION

A. Construction and Maintenance Details

Structure is a partially buried circular reinforced concrete secondary clarifier. The clarifier was constructed in 2001 and has a diameter of approximately 90 feet, an approximate overall height of 20 feet, and a maximum water depth of approximately 15 feet. A bridge provides access to the drive unit at the center column.

B. Site Conditions

The clarifier is located on a dirt site within the plant with two other secondary clarifiers. The clarifier is partially buried with approximately five feet of the wall exposed. There is adequate vehicle access around the clarifier. No difficulty is anticipated for Contractor mobilization, assuming the use of normal portable air compressor and related equipment.

There are plant facilities in close proximity to the clarifier which could be adversely affected by dust and contamination associated with abrasive blast cleaning and painting operations. Accordingly, extreme caution must be exercised during all cleaning and painting operations.

Appendix B – SMWD-4

Sample Condition Assessment – Excerpts

INVESTIGATION

- A. The investigation of the interior surfaces was accomplished as follows.
1. A temporary extension ladder was utilized to access the interior of the clarifier.
 2. Interior surfaces were examined visually by walking the length of the bridge, examining areas within reach while traversing the floor of the clarifier wearing hip waders, climbing the temporary ladder, and systematically traversing the launder trough.
 3. Various chipping tools were employed to examine typical areas of defective concrete and coating within reach.
 4. Photographs were taken of typical and specific areas to illustrate condition of surfaces.

Santa Margarita Water District
Secondary Clarifier No. 1
March 2022

III. OBSERVATIONS

- A. Based upon the above reported investigation, the following observations were noted.
1. Random minor corrosion is present on the influent well and feedwell. (Photos E-2 through E-15)
 2. Minor to moderate corrosion is present on the nuts and bolts securing the feedwell to the I-beam support structure. (Photo E-10)
 3. Minor corrosion is present on the I-beams supporting the influent well. (Photos E-12, E-13, and E-15)
 4. Random areas of minor delamination and corrosion are present on the torque cage and rake arms. (Photos E-15 through E-22)

VI. COST ESTIMATES

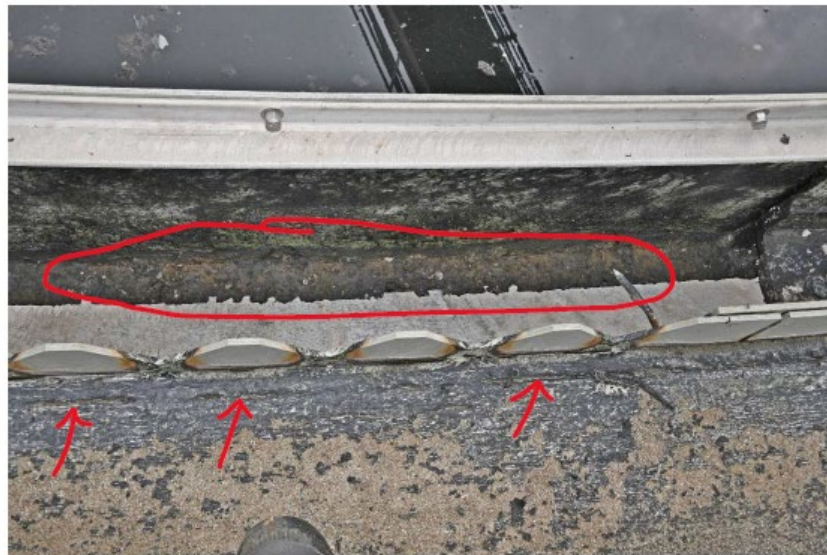
- A. Based on current and previous projects of similar scope, preliminary cost estimates for work as noted in RECOMMENDATIONS were calculated by using data from those projects.
1. Abrasive blast cleaning to Near White Metal (SSPC-SP10) and applying a three-coat epoxy coating system to all steel components within the clarifier would be in the cost range of \$150,000 to \$180,000.

Appendix B – SMWD-4- Continued
Sample Condition Assessment – Excerpts

V. RECOMMENDATIONS

- A. Based on the above noted observations, the following recommendations are offered.
1. Although the coating system is in overall good condition, as noted above, the coating is at or near its useful service life for this type of structure. Therefore, due to the age of the existing coating and random corrosion, it is recommended all steel components below the bridge be abrasive blast cleaned to Near White Metal (SSPC-SP10) and a three-coat epoxy coating system applied to a minimum total dry film thickness of 25 mils. The original coal tar epoxy used in the clarifier does not meet the new 100 mg/L South Coast AQMD requirements and cannot be used again.
 2. No significant metal loss or pitting was noted during the investigation. However, when the steel surfaces are abrasive blast cleaned, random areas could develop. Therefore, it is recommended to include an optional hourly rate bid item for weld repair of excessively pitted or perforated areas and for grinding of sharp edges.

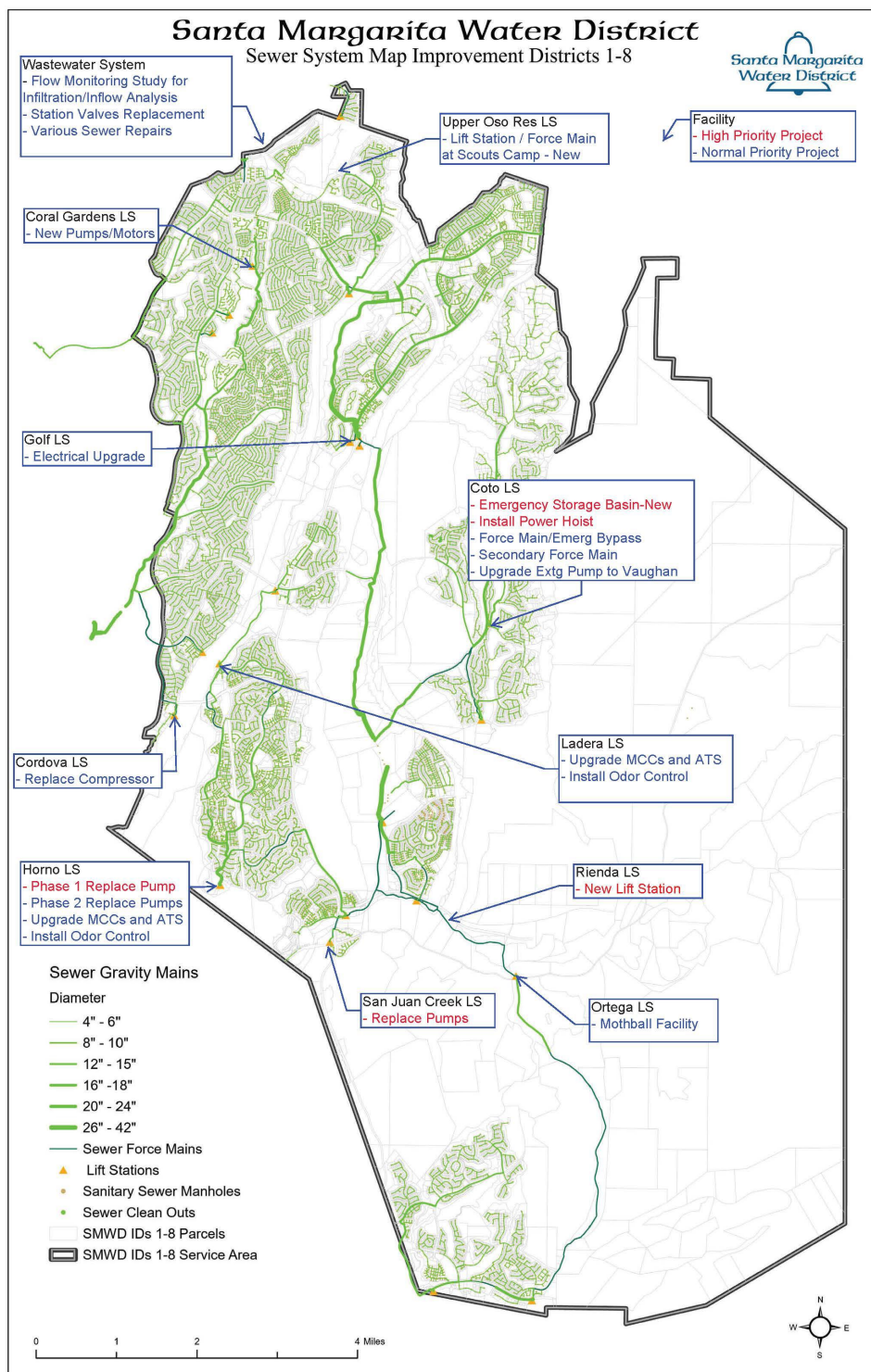
E-28 View of the notched weir and baffle, illustrating severe corrosion of the angle at the bottom of the baffle. Note cracking of the black sealant between the notched weir and concrete wall.



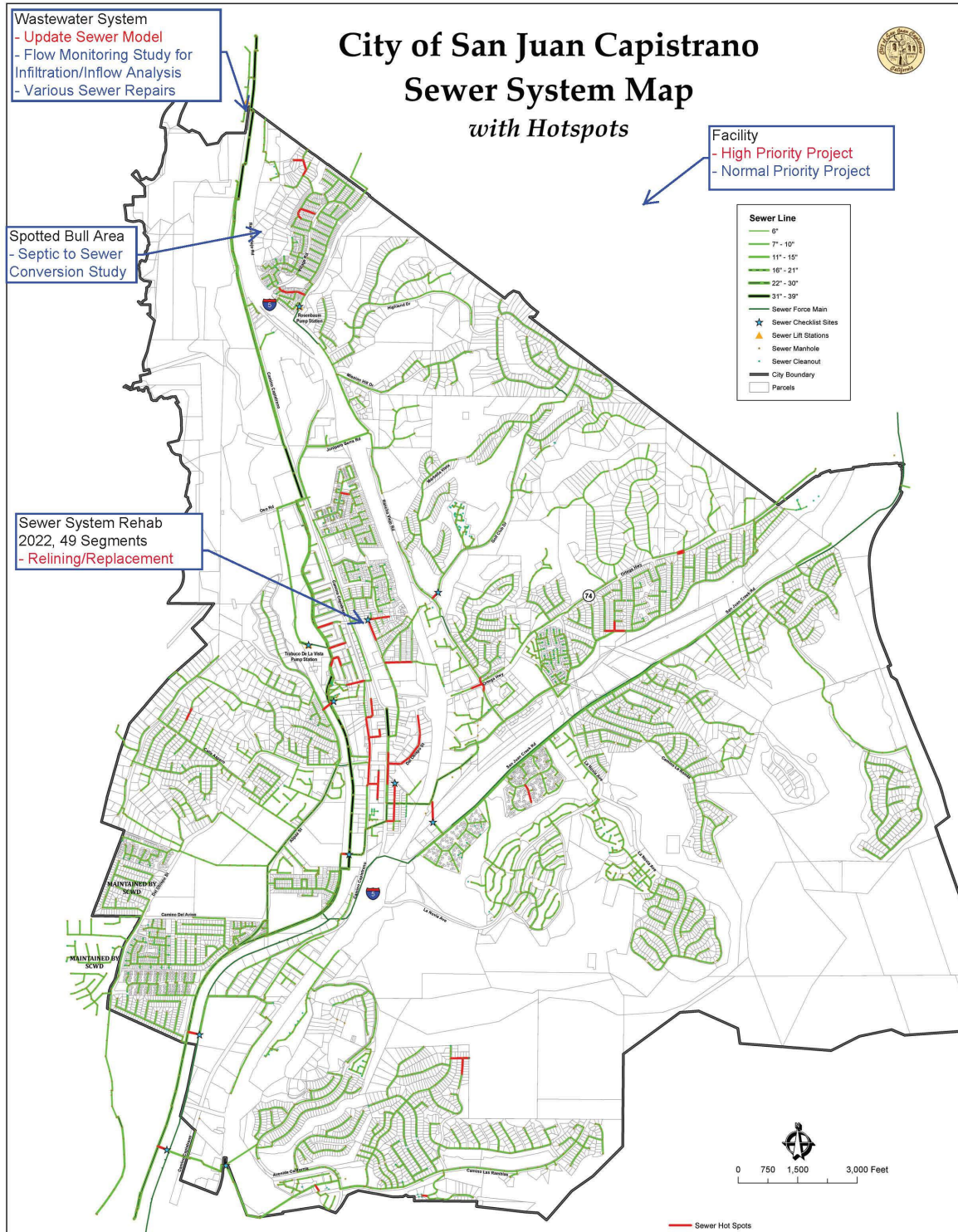
Appendix B – SMWD -5 - System Maps

Improvement Districts 1 – 8 (IDs 1-8) Sewer System Map

Attachment E2 – System Maps Continued



ID 9 (City of San Juan Capistrano) Sewer System Map



Appendix B – SMWD - 6

Operations Repair and Replacement Projects List

Wastewater

Name of Project	Budget
Coral Gardens LS - New Pumps/Motors	\$ 150,000
Cordova LS - Replace Compressor	\$ 80,000
Coto LS - Force Main Feasibility Study and Provisions for emerg bypass	\$ 500,000
Coto LS - Emergency storage basin	\$ 5,600,000
Coto LS - Install power hoist	\$ 70,000
Coto LS - Secondary FM in CDC Dr	\$ 1,100,000
Coto LS - Upgrade existing P3 to Vaughan	\$ 80,000
De La Vista LS - Add Pump Rail System	\$ 25,000
Felipe LS - Reline Wet Well	\$ 60,000
Golf LS - Electrical Upgrade	\$ 150,000
Golf LS - Reline Wet Well	\$ 60,000
Horno LS - Phase 1 Replace Pump	\$ 200,000
Horno LS - Install odor control	\$ 390,000
Horno LS - Ph 2 Pump Replacement Design	\$ 300,000
Ladera LS - Install odor control	\$ 225,000
Ladera LS - Upgrade MCC and ATS	\$ 250,000
Ortega LS - Mothball facility	\$ 50,000
Plano LS - Upgrades (Odor Control, Reroute Sewer)	\$ 1,630,000
San Juan Creek LS - Replace pumps	\$ 500,000
Spotted Bull Septic Sewer Conversion	\$ 50,000
Upper Oso - Boy Scout LS - Install packaged lift station	\$ 250,000
Wastewater System - I/I Study - Phase 1	\$ 250,000
Wastewater System - Station Valve Replacement	\$ 50,000
Wastewater System (SJC) - Sewer System Rehab Projects 2022	\$ 2,500,000
Wastewater System (SJC) - Sewer Flow Monitoring and Model	\$ 1,000,000
Wastewater System - Various Sewer Repairs (ID 1-8) FY2023	\$ 600,000
Wastewater System - Various Sewer Repairs (ID-9) FY2023	\$ 400,000
New/Supply/Reliability	
Rienda (PA3) Sewer Lift Station (New)	\$ 8,175,000



Appendix B – SMWD - 6- Continued

Operations Repair and Replacement Projects List

Chiquita Water Reclamation Plant

Name of Project	Budget
CWRP - Assess, Rehabilitate gas sphere	\$ 175,000
CWRP - Bldg Vent Fan Replace Solids Area	\$ 100,000
CWRP - Demo and Repurpose Ferric Storage and Feed - Digester Area	\$ 75,000
CWRP - Dewatering/Belt Press Rebuild	\$ 500,000
CWRP - Digester Gas Compressor System Modifications	\$ 600,000
CWRP - Digesters Clean/Coat FY20-22	\$ 1,200,000
CWRP - Gate 5 Sludge Processing Demo Project	\$ 200,000
CWRP - ILS and Screening	\$ 12,000,000
CWRP - ILS Force Main Relocate	\$ 500,000
CWRP - PC 1-3 and PC4 4 Launder Repair and Coating	\$ 650,000
CWRP - Recycled Pump Refurb	\$ 210,000
CWRP - Replace aeration diffusers	\$ 250,000
CWRP - Replace digester gas piping	\$ 1,000,000
CWRP - Replace filtrate pumps	\$ 50,000
CWRP - Replace sludge pumps at primary clarifier	\$ 250,000
CWRP - Replace tertiary filters backwash pumps	\$ 60,000
CWRP - Secondary Clarifier 1 and 4 Rehab	\$ 800,000
New/Expansion/RW Conversion	
CWRP - RMV Share Upgrade Bar Screen Facility (New)	\$ -
CWRP - Expansion Electrical and Instrumentation (Expansion)	\$ 2,893,000
CWRP - Grit Chamber Expansion and Vactor Station (Expansion)	\$ 2,152,000
CWRP - Odor Control ILS and Upper Plant (Expansion)	\$ 1,000,000
CWRP - Project Common Costs (Expansion)	\$ 20,124,000
CWRP - Secondary Treatment (Expansion)	\$ 13,000,000
CWRP - Tertiary Treatment (Expansion)	\$ 6,856,000
CWRP - RW Pump Station Modifications (related to Trampas Res) (RW Conv/Convy)	\$ 1,500,000
CWRP - RW Zone A Modifications (RW Conv/Convy)	\$ 2,000,000
General/Electrical Improvements	
CWRP - Batteries and Microgrid System	\$ -
CWRP - Beautification	\$ 300,000
CWRP - Perform electrical study	\$ 250,000
CWRP - Potable Water Supply	\$ 200,000
CWRP - Preliminary Architectural for Lab Expansion	\$ 150,000
CWRP - Rehab Structures	\$ 200,000
CWRP - Replace orig Prim, Sec, Tert MCCs	\$ 2,450,000
CWRP - Replace Solar Inverters	\$ 150,000
CWRP - SCADA Replacements	\$ 133,300
CWRP - Site Improvements Primary/Secondary Areas	\$ 400,000
CWRP - Upgrade security	\$ 250,000

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Appendix C - Funding in compliance with §6.3.5.7.4

CSC - Maintenance Planning and Capital Summary

The table below also includes capital spending for the CSC Water Reclamation Plant. Please also reference the following link which has a more comprehensive capital funding discussion:

https://issuu.com/z.y.mazboudi/docs/fy_2021_cip_and_maintenance_projects_with_link

FUND 054-476				Current Year Projected				Future Years						
Proj #	Description	DIV	Project Category	Budgeted			Projected	Six year						
				FY 21/22	Exp	Balance	FY 21/22	Total	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28
Maintenance & Other Projects														
21201	Computerized Maintenance Management System Implementation	Eng.	Maint.	63,850	-	63,850	63,580							
24200	Sewer System Rehabilitation			250,000	4,877	245,123	250,000	1,300,000	250,000	250,000	250,000	300,000	300,000	
26212	WRP Sludge Gate Replacements	Eng.	Maint.	214,440	24,340	190,100	214,440	500,000	500,000					
21203	Digester #2 Cleaning, Residual Disposal & Inspection	Eng.	Maint.	250,000	-	250,000	250,000	100,000	100,000					
36202	WRP Odor Scrubber Analysis	Eng.	Study	12,600	-	12,600	12,600							
New	Centrifuge Conveyor Improvements							300,000						
Future	Sewer Asset Management					-		50,000			50,000			
12208	WRP Ferric Tank Replacement	Eng.	Maint.	150,000	4,289	145,711	150,000	0						
21205	WRP and Sewer Facility Pavement Rehabilitation	Eng.		299,700	-	299,700	299,700	200,000				200,000		
Total M & O Projects				\$1,240,590	\$33,506	\$1,207,084	\$1,240,320	\$1,150,000	\$250,000	\$300,000	\$450,000	\$300,000	\$300,000	

MNWD

MNWD produces an annual budget can be found here: <https://www.mnwd.com/wp-content/uploads/2022/06/FY-2022-23-GFOA-Budget-Document-FINAL-for-Posting.pdf>

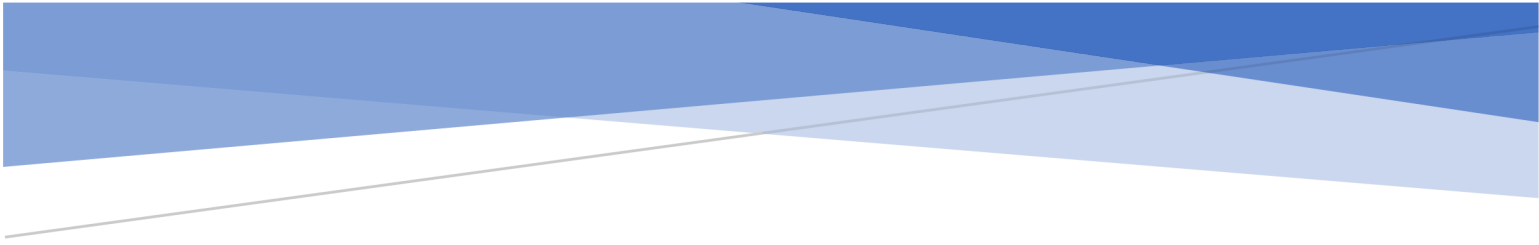
SCWD

SCWD produces an annual budget that can be found here:
https://cms9files.revize.com/scoastwaterdist/SCWD_FY22_BudgetBook_final.pdf

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South Coast Water District FY 2023 Budget

	FY 2021 Actuals	FY 2022 Revised Budget	FY 2022 Actuals YTD (April 29, 2022)	FY 2022 Projected Expenditures	FY 2023 Proposed Expenditures
Professional/Outside Services	2,023	2,000	1,610	2,235	4,000
Repairs	5,637	50,000	988	41,000	75,000
	591,477	828,287	516,877	678,586	681,012
SOCWA					
Maintenance & Operations	4,132,638	4,855,268	4,186,642	4,186,642	4,239,614
	4,132,638	4,855,268	4,186,642	4,186,642	4,239,614



ALISO CREEK OCEAN OUTFALL ASSET MANAGEMENT PLAN

NPDES No. CA0107611, Order R9-2022-0006

Abstract

In conformance with NPDES Section 6.2.5.7, SOCWA and SOCWA Member Agencies developed this Asset Management Plan for proper operation, engineering and financial management, and Board level oversight of the permitted facilities. This AMP also complies with Section 6.3.5.7.

SOCWA
October 2022

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Executive Summary

Asset Management Purpose, Objective, & Findings

Purpose:

To comply with the SJCOO NPDES Permit as stated in the NPDES permit: “Asset management planning provides a framework for setting and operating quality assurance procedures and ensuring the Dischargers have sufficient financial and technical resources to continually maintain a targeted level of service and the operational integrity of the POTWs. Asset management requirements have been established in this Order to ensure compliance with Standard Provision 1.4 in Attachment D of this Order and the requirements of 40 CFR section 122.41(e).”

Objectives:

Proactive approach to repair, rehabilitation, and replacement, assets are reliable and operating when needed, minimization of unplanned outages, management of risks associated with asset or service impairment through asset performance optimization, development of cost-effective management strategies in the long-term, and striving for continual improvement of asset management practices.

Organization:

This AMP is organized by NPDES Section numbers to provide the Regional Board with a Roadmap that permittees used to comply NPDES requirements. This AMP starts with an Introduction of the treatment facilities, responsible agencies, where the reader can find the facility descriptions in the NPDES permit and associated maps in compliance with §6.3.5.7.3. Part 2 provides the reader with an overview of the maintenance programs and funding to accomplish rehabilitation and needed repair of the permitted facilities. Part 2 complies with §6.3.5.7.1., §6.3.5.7.2., and §6.3.5.7.6. Part 3 includes funding sources, capital program management and system projections for each facility in compliance with §6.3.5.7.4. and §6.3.5.7.5. Part 4 provides a general overview of the findings in this AMP.

Findings:

All agencies are in various stages of their asset management program implementations. Agencies are properly planning, maintaining, and replacing small capital and large capital in conformance with these NPDES requirements. Through inspections conducted by SDRWQCB staff after the adoption of the NPDES permit, there were no deficiencies found. This concludes that agencies are taking proper care and maintenance of their facilities as required by the NPDES permit.

Part 1: Introduction

Asset Management Organization

There are nine permitted facilities under the ACOO permit as described in Table 1 below. The table below provides the reference point for each named facility, the facility's responsible agency, and the permitted description of the facility in compliance with the AMP requirement for inclusion. Each section of this AMP refers to the responsible agency to organize the list of facilities that the agency has direct oversight over, through contracted agreements, or through direct oversight as part of their organizational structure. The responsible agencies are listed in alphabetical order throughout the AMP for consistency and clarity throughout the document.

Discharge Location	Facility Name	Responsible Agency	Permitted Description NPDES Section in Attachment F
M-001	SOCWA Aliso Creek Ocean Outfall (ACOO)	SOCWA	2.2
M-001A	SOCWA Regional Treatment Plant (RTP)	SOCWA	2.1.1.
M-001B	SOCWA Coastal Treatment Plant (CTP)	SOCWA	2.1.2.
M-001C	IRWD Los Alisos Water Reclamation Plant (IRWD LAWRP)	IRWD	2.1.3.
M-001D	El Toro Water District Water Reclamation Plant (ETWD WRP)	ETWD	2.1.4.
M-001E	Irvine Desalter Project Portable Water Treatment System (IRWD IDP)	IRWD	2.1.5.
M-001F	Irvine Desalter Project Shallow Groundwater Unit (IRWD SGU)	IRWD	2.1.6.
M-001G	SCWD Aliso Creek Water Reclamation Facility (SCWD ACWRF)	SCWD	2.1.7.
M-001H	IRWD Combined Desalter, SGU, and Los Alisos Discharge	SCWD	2.1.8.

Table 1: ACOO permitted discharge and responsible parties per the NPDES permit

ACOO Discharge Facility Infrastructure in Compliance with § 6.3.5.7.3

The NPDES permit requires that the AMP require a map of the wastewater treatment plant that “shall incorporate assets from the asset management inventory.” Each agency provided maps related to this requirement which are included in Appendix A with descriptions of how the agencies interpreted this requirement and responded with materials available that were previously provided.

Part 2: Program Monitoring and Improvements – In Compliance with NPDES Section 6.3.5.7.1

Compliance with NPDES Sections §6.3.5.7.1., §6.3.5.7.2., and §6.3.5.7.6

Each agency includes a robust system of rehabilitation and replacement plans that are tied to their operational planning through their respective operational structures. Computerized maintenance and management systems (CMMS) are the main operational management software system(s) that agencies utilize for maintenance planning and scheduling of replacement maintenance activities. Management structure with personnel in charge of direct oversight to accomplish the preventative maintenance and other rehabilitation activities in the primary mechanism for completion of the permit compliance requirements. The San Diego Regional Water Quality Control Board (SDRWQCB) completes compliance evaluation inspections to review the rehabilitation and preventative maintenance requirements with a metric scoring system to identify whether the activity levels are unacceptable or not. In April 2022, the SDRWQCB staff performed CEIs at all of the facilities, with no facility receiving an unacceptable rating that would be out of compliance with these permit requirements.

Rehabilitation and Replacement Plan in Compliance with NPDES § 6.3.5.7.1

The ACOO NPDES permit states: “Each agency includes a robust system of rehabilitation and replacement plans that are tied into their capital spending and budgeting processes.” Detailed in this section is how each agency is meeting this permit requirement. Each agency provided remaining useful life estimates for each of their facilities which are included in each section below.

ETWD

The tables below include the current remaining use life values for ETWD’s WRP.

WATER RECYCLING PLANT PUMP AND MOTOR INFORMATION

Today's Year 2022

HEADWORKS

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Bar Screen Rake	Eurodrive	1.5	Constant	2008	2021	1	N/A	N/A	N/A	N/A
Grit Auger	Baldor	1	Constant	2012	None	10	N/A	N/A	N/A	N/A
Rotary Screen No. 1, 3, 5	Eurodrive	0.4	Constant	1980	2017-2021	1-year/4-years	N/A	N/A	N/A	N/A
Rotary Screen No. 2, 4, 6	Eurodrive	0.4	Constant	1980	2016-2019	2-years/5-years	N/A	N/A	N/A	N/A
Belt Conveyor No. 1	Reliance	3	Soft Start	1997	2021	1	N/A	N/A	N/A	N/A
Belt Conveyor No. 2	Reliance	3	Soft Start	1997	2017	5	N/A	N/A	N/A	N/A
Dimminutor	Aevane	3	Constant	2015	2019	3	N/A	N/A	N/A	N/A
Sump Pump	Reliance	2	Constant	2010	2017	5	New Essco	Submersible	2017	None
Grit Tank Blower		25	Soft Start	2011	None	11	N/A	N/A	N/A	N/A

EQUALIZATION BASINS

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Mixing Pump No. 1	KSB	12.8	Soft Start	1997	2021	1	KSB	Submersible	1997	2021
Mixing Pump No. 2	KSB	12.8	Soft Start	1997	2020	2	KSB	Submersible	1997	2020
Mixing Pump No. 3	KSB	12.8	Soft Start	1997	2022	0	KSB	Submersible	1997	2022
Mixing Pump No. 4	KSB	12.8	Soft Start	1997	2019	3	KSB	Submersible	1997	2019

INFLUENT PUMP STATION

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Pump No. 1	KSB	34	VFD	2000	None	22	KSB	Submersible	2000	None
Pump No. 2	KSB	34	VFD	2000	2020	2	KSB	Submersible	2000	2020
Pump No. 3	KSB	34	VFD	2000	None	22	KSB	Submersible	2000	None
Pump No. 4	KSB	34	VFD	2000	None	22	KSB	Submersible	2000	None

AERATION

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Aeration Blower No. 1	U.S. Motors	300	Constant	1997	2007	15	N/A	N/A	N/A	N/A
Aeration Blower No. 2	U.S. Motors	300	Constant	1997	2009	13	N/A	N/A	N/A	N/A
Sulzer Turbo Blower	Sulzer	400	VFD	2016	None	6	N/A	N/A	N/A	N/A

Plant Air Blower No. 1	Neuros	75	VFD	2011	None	11	N/A	N/A	N/A	N/A
Exhaust Fan No. 1	U.S. Motors	1.5	Constant	1997	None	25	N/A	N/A	N/A	N/A
Exhaust Fan No. 2	U.S. Motors	1.5	Constant	1997	None	25	N/A	N/A	N/A	N/A
Exhaust Fan No. 3	U.S. Motors	1.5	Constant	1997	None	25	N/A	N/A	N/A	N/A
Exhaust Fan No. 4	U.S. Motors	1.5	Constant	1997	None	25	N/A	N/A	N/A	N/A
Exhaust Fan No. 5	U.S. Motors	1.5	Constant	1997	None	25	N/A	N/A	N/A	N/A

CLARIFIERS

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Clarifier No. 1	U.S. Motors	0.75	Constant	1960	2007	15	N/A	N/A	N/A	N/A
Clarifier No. 3	U.S. Motors	0.75	Constant	1997	None	25	N/A	N/A	N/A	N/A
Clarifier No. 4	U.S. Motors	0.75	Constant	1997	None	25	N/A	N/A	N/A	N/A

RETURN ACTIVATED SLUDGE

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
RAS Pump No. 1	U.E. Electric	20	VFD	1997	None	25	Fairbanks Morse	Centrifugal	1997	2009
RAS Pump No. 2	U.E. Electric	20	VFD	1997	None	25	Fairbanks Morse	Centrifugal	1997	2009
RAS Pump No. 3	U.E. Electric	20	VFD	1997	2008	14	Fairbanks Morse	Centrifugal	1997	2009
RAS Pump No. 4	U.E. Electric	20	VFD	1997	None	25	Fairbanks Morse	Centrifugal	1997	2009

D.A.F.

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
DAF Feed Pump	Reliance	7.5	Constant	2021	None	1	Essco	Submersible	2007	2021
DAF No. 1 Recirculation	G.E.	40	Constant	2015	None	7	Nikuni	Centrifugal	2015	2015
DAF No. 2 Recirculation	Nikuni	25	Constant	2010	None	12	Nikuni	Centrifugal	2010	2010

OCEAN OUTFALL PUMP STATION

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Air Compressor (Misc.)	Ingersol Rand	15	Constant	2005	None	17	N/A	N/A	N/A	N/A
Air Compressor (Surge Tank)	Ingersol Rand	3	Constant	1980	None	42	N/A	N/A	N/A	N/A
Pump No. 1	U.S. Motors	160	VFD	2006	None	16	Sulzer Bingham	M.S.T	2006	None

Pump No. 2	U.S. Motors	160	VFD	2006	None	16	Sulzer Bingham	M.S.T	2006	None
Pump No. 3	U.S. Motors	160	VFD	2006	None	16	Sulzer Bingham	M.S.T	2006	None

CLOTH MEDIA DISK FILTERS

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Filter No. 1 Backwash	Baldor	3	Constant	2014	None	8	Gorman Rupp	Centrifugal	2014	None
Filter No. 2 Backwash	Baldor	3	Constant	2014	None	8	Gorman Rupp	Centrifugal	2014	None

TERTIARY EFFLUENT TO STORAGE TANK

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Transfer Pump No. 1	G.E.	25	VFD	2014	None	8	Peerless	M.S.T	2014	None
Transfer Pump No. 2	G.E.	25	VFD	2014	None	8	Peerless	M.S.T	2014	2022
Transfer Pump No. 3	G.E.	25	VFD	2014	None	8	Peerless	M.S.T	2014	2022

RECYCLED WATER PUMP STATION

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Pump No. 1	G.E.	125	VFD	2014	2018	4	Peerless	M.S.T	2014	2018
Pump No. 2	G.E.	250	VFD	2014	2019	3	Peerless	M.S.T	2014	None
Pump No. 3	G.E.	250	VFD	2014	2022	0	Peerless	M.S.T	2014	None
Pump No. 4	G.E.	250	VFD	2014	2020	2	Peerless	M.S.T	2014	None

EFFLUENT PUMP STATION

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Pump No. 1	Induction	60	VFD	1990	None	32	Fairbanks Morse	Centrifugal	1990	None
Pump No. 2	U.S. Motor	60	VFD	1988	None	34	Fairbanks Morse	Centrifugal	1982	None

AIR GAP PUMP STATION

Purpose	Motor	H.P.	Speed	Year Installed	Last Rewind	Motor Age	Pump	Type	Year Installed	Year Rebuilt
Pump No. 1	U.S. Motor	10	Constant	2017	None	5	Jacuzzi	Centrifugal	2008	None
Pump No. 2	Century	10	Constant	2013	None	9	Jacuzzi	Centrifugal	2013	None

IRWD

IDP Shallow Groundwater Unit: IRWD's IDP SGU is undergoing a significant retrofit project to add the ability to treat PFAS. All the major treatment components are being upgraded. This project will address all electrical, mechanical, civil, and structural aspects of the plant. The Remaining Useful Lives of major components are shown in the summary table below. Ongoing operational, CIP Asset Management, and funding are handled as described above.

IDP Potable Treatment Plant: IRWD's IDP Potable Treatment Plant was constructed in 2006. Similar to the IDP SGU, ongoing operational, CIP Asset Management, and funding are handled as described above. The Remaining Useful Lives of major components are shown in the summary table below.

Los Alisos Water Recycling Plant (LAWRP): LAWRP has been operating since 1964 and has had ongoing operational maintenance and capital improvements. Most recently, in 2007, the plant underwent a major renovation, and the Remaining Useful Life table (See below) reflects this work. IRWD anticipates upgrades within the next five years to keep the plant running and is currently evaluating long-term alternatives that include potentially completely rebuilding the plant.

IDP SGU	RUL (Years)
Brine Pumping	
Civil	48
Electrical	15
Instrumentation	20
Mechanical	5
Structural	27
Distribution Pumping	
Civil	48
Electrical	15
Instrumentation	20
Mechanical	15
Structural	27
GAC Treatment System	
Civil	63
Electrical	30
Instrumentation	20
Mechanical	25
Structural	42
General	
Civil	48
Electrical	40
Mechanical	32
Structural	50

LAWRP	RUL (Years)
A-General	
Electrical	16
Emergency Power	8
Instrumentation and Controls	23
Mechanical	23
Site	30
Structure	23
B-Headworks	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	23
C-Pond #1	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	27
D-Pond #2	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	27
E-Pond #3	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	27
F-Pond #4	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	27
G-Pond #5	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	27
H-Pond #5 Pump Station	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	23
I-Clarifier/Media Filters	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	23
J-Biosolids	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	23
K-Chlorine Contact Tanks	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	23
L-Chemicals	
Electrical	16
Instrumentation and Controls	23
Mechanical	23
Structure	23

IDP PTP	RUL (Years)
A-General	
Electrical	12
Emergency Power	9
Mechanical	22
Site	31
Structure	19
B-Green Sand Filter System	
Electrical	12
Instrumentation and Controls	19
Mechanical	22
Structure	19
C-Raw Water Pretreatment	
Electrical	12
Instrumentation and Controls	19
Mechanical	22
Structure	19
D-RO Filtration	
Electrical	12
Instrumentation and Controls	19
Mechanical	22
Structure	19
E-Decarbonator System	
Electrical	12
Instrumentation and Controls	19
Mechanical	22
Structure	19
F-Product Water Pump Station	
Electrical	12
Instrumentation and Controls	19
Mechanical	22
Structure	19
G-Chemicals	
Electrical	12
Instrumentation and Controls	19
Mechanical	22
Structure	19

SCWD

The SCWD plans on spending ~\$545,000 on the Aliso Creek Water Harvesting Facility. A portion of the chart that shows the spending levels is included on p.11 of the SCWD's FY23 Budget. The SCWD budget can be found on the SCWD website here:

https://www.scwd.org/open_government/financials/budget.php

SCWD also participates in and funds operational projects for the CTP through participation in the SOCWA Engineering Committee, SOCWA Finance Committee, and the SOCWA Board.

SOCWA

In FY 2021-22, SOCWA Operational and Maintenance staff completed 52 Small Capital projects at a value of \$2.08 million (estimated 80% spent). Goods on order for installation are \$1.08 million, which has delayed small capital projects due to supply chain issues.

Maintenance Planning and Asset System Summaries in Compliance with NPDES § 6.3.5.7.2 & § 6.3.5.7.6

ETWD

All planning activities for maintenance activities are handled in the Tabware CMMS. In April 2022, Joann Lim of the SDRWQCB conducted a Compliance Evaluation Inspection (CEI) of the agency facilities, which reviewed the computer maintenance and management system software used to track assets used in the maintenance and capital spending projects. A review of the preventative maintenance activities was conducted, and no deficiencies were found, as described in the CEI letter received from Ms. Lim in May 2022.

IRWD

IRWD has a long-term approach to operational and capital asset management. Operational asset management and preventative maintenance use Maximo as the primary Computer Maintenance and Management System (CMMS). Larger capital replacement projects identified during routine preventative maintenance are prioritized by IRWD's Operations Support Engineering and Operational Maintenance teams. Recently, IRWD updated its long-term Replacement Planning Model (RPM) financial projections for all treatment plants, and funding is available through IRWD's enterprise Replacement Funding Policy. IRWD's risk-based Capital Improvement Program Asset Management is being expanded to include treatment plants as well. These three programs, Maximo, RPM, and CIP Asset Management, address near-term, long-term financial planning, and capital improvements.

SCWD

All planning activities for maintenance activities are handled in the Maintenance Connection CMMS. In April 2022, Joann Lim of the SDRWQCB conducted a Compliance Evaluation Inspection

(CEI) of the agency facilities, which reviewed the computer maintenance and management system software used to track assets used in the maintenance and capital spending projects. A review of the preventative maintenance activities was conducted, and no deficiencies were found, as described in the CEI letter received from Ms. Lim in May 2022.

SOCWA

SOCWA uses Tabware by Aptean. Tabware by Aptean is a computerized maintenance management system or CMMS software that centralizes maintenance information and facilitates the processes of maintenance operations. It helps optimize the utilization and availability of physical equipment like vehicles, machinery, communications, plant infrastructures, and other assets.

The core of the CMMS is the database. It has a data model that organizes information about the assets needed for maintaining the equipment, materials, and other resources management by SOCWA.

The information in the CMMS database supports various functions of the system, which enable the following capabilities:

Resource and labor management:

- Track available employees
- Assign specific tasks
- Schedule projects requiring multiple crafts and/or Departments

Asset registry: Store, access, and share asset information such as:

- Manufacturer, model, serial number and equipment class, and type
- Associated costs and codes
- Location and position
- Performance and downtime statistics
- Associated documentation, video, images such as repair manuals, safety procedures, and warranty information

Work order management: Typically viewed as the main function of CMMS, work order management includes information such as:

- Work order number
- Description and priority
- Order type (repair, replace, scheduled)
- Cause and remedy codes
- Personnel assigned and materials used
- Backlog reports

Work order management also includes capabilities to:

- Automate work order generation
- Schedule and assign employees
- Review status and track downtime
- Record planned and actual costs
- Attach associated documentation, repair, safety information, equipment nameplate data (manufacturer, model, serial number, sizing, etc.), specifications, location and criticality information, documents and video files, user-defined data

fields, hierarchy of components, assemblies, sub-assemblies and parts, maintenance and cost history, parts ordering information

Preventive maintenance:

- Automate work order initiation based on time, usage, and triggered events.
- Tabware allows staff to sequence and schedule preventive work orders.

Reporting, analysis, and auditing:

- Generate reports across maintenance categories such as asset availability, materials usage, and labor.
- Tabware also allows viewing equipment assemblies, sub-assemblies, components, and parts to maximize asset performance and improve technician wrench time by eliminating time spent searching for parts.

Information stored in Aptean EAM's Equipment Module is integrated throughout other Aptean EAM modules to help maximize asset performance. For example, inventory items listed on the hierarchy are integrated with the Aptean EAM Inventory Module.

Key features include:

- Reach any function with just 2 mouse clicks
- Aptean EAM's Query Wizard provides quick access to equipment and easy reporting
- Specify multiple meters for equipment to drive preventive maintenance
- Hierarchy view identifies plants, areas, systems, equipment, assemblies, parts, etc.
- Create work orders and requisitions directly from the equipment hierarchy
- Link any type of document to equipment and classes of equipment
- Specify components by equipment and equipment class for failure reporting and analysis
- Move equipment from one location to another directly from the equipment hierarchy

SOCWA staff reports key performance indicators related to Tabware CMMS to the SOCWA Board on a monthly and quarterly basis.

Part 3: Budgetary Considerations

Funding in compliance with §6.3.5.7.4.

NPDES §6.3.5.7.4 states that: “The AMP shall create an accounting of current and projected funding sources, relevant expenses, and financial reserves. Expenses may include operational, administrative, interest, or capital expenses. Funding sources may consist of federal, State, local or private grants, loans, or bonds, as well as connection and user fees.

System Projections in compliance with §6.3.5.7.5

Each agency identifies service area vulnerabilities and population water access needs through rate setting projects and Urban Water Management Plans, which are referenced and provided in the narrative for each agency below. In addition, NPDES §6.3.4.4 requires dischargers to develop a climate change plan as described here: “The Facilities shall be protected against regional impacts of changing climate conditions (e.g., rising sea levels, flooding, higher storm surges, and changing hydrography, including more intense atmospheric rivers). Compliance with this requirement shall be implemented through the development and implementation of applicable measures identified in the Climate Change Action Plan, which must be submitted within three years of the effective date of this Order pursuant to section 6.1 of the MRP (Attachment E).”

ETWD

The El Toro Water District provides water and sewer service to approximately 50,000 customers spread across approximately 5,350 acres in South Orange County. The District contracted with RBF Consulting to provide the District with a Water and Sewer Master Plan Report which:

- Identified existing water demand and sewer flow conditions
- Develops future water demand and sewer flow projections
- Establishes design and planning criteria
- Develops a hydraulic model of the water and sewer system
- Analyzes the existing systems, identifies system deficiencies, and recommends operational efficiencies
- Reviews the current Capital Facility Restoration & Replacement Program (CFRRP) and recommends modifications

The Water and Sewer Master Plan can be found here:

<https://etwd.com/wp-content/uploads/2019/09/2004MasterPlan.pdf>. ETWD is currently in the process of developing a Water and Sewer Master Plan update, which will be publicly available in the first quarter of 2023.

ETWD includes wastewater treatment and capital replacement and refurbishment in the annual budget, which can be found here: <https://etwd.com/wp-content/uploads/2022/07/2022-23-Budget-Document.pdf>

IRWD

IRWD approved a two-year budget process for FY 22-23 that can be found here: https://www.irwd.com/images/pdf/about-us/Finance/irwd_fy21-23_capital_budget_final_adopted.pdf

SCWD

The SCWD budget can be found here:

https://cms9files.revize.com/scoastwaterdist/SCWD_FY22_BudgetBook_final.pdf

The Appendix to the budget contains the breakdown in spending for SCWD's facilities. The graphic below is provided for reference to the budgeted materials.

South Coast Water District FY 2023 Budget

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APPENDIX – CAPITAL IMPROVEMENT PROJECTS

Fund	Funding Source	Project Description	Proposed Total Expenditures by June 30, 2022	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	% to Proposed Total
Water	General	General Fund Capital Projects - Capital Projects Fund	1,000,000	1,000,000					100%
Water	Grants	Sewery Classification (Studies/Planning) - grant reimbursement 20%	250,000	457,100					457,100
Water	Planning	Equipment Replacement - Water	5,000			50,000			50,000
Water	2019 Bonds	Reservoir 2B Replacement	250,000	2,000,000					2,000,000
Water	Planning	Leakage Replacement - Water	125,000	125,000		25,000			150,000
Water	2019 Bonds	Reservoir 2B Rehabilitation	150,000	2,000,000					2,000,000
Water	Construction	TRF Upgrade	4,215				10,000	1,000,000	1,014,215
Water	Reservoir	Water Management Plan (WMP)	40,000						40,000
Water	Reservoir	Waterline Replacement at Camp Lane	40,000						40,000
Water	Construction	Waterline Replacement at Camp Lane	40,000						40,000
Water	Reservoir	Waterline Replacement at Camp Lane	40,000						40,000
Water	2019 Bonds	East New Water Transmission Line Replacement	1,000,000	2,000,000					2,000,000
Water	Construction	East New Water Transmission Line Replacement	1,000,000	2,000,000					2,000,000
Water	2019 Bonds	East New Water Transmission Line Replacement	1,000,000	2,000,000					2,000,000
Water	Construction	East New Water Transmission Line Replacement	1,000,000	2,000,000					2,000,000
Water	2019 Bonds	Annual City Recycling Facility - Water for Sanitation	1,000,000	2,000,000					2,000,000
Water	Construction	Annual City Recycling Facility - Water for Sanitation	1,000,000	2,000,000					2,000,000
Water	Construction	Water Main and Service Repairs	400,000						400,000

SOCWA

SOCWA prioritizes capital spending based on remaining useful life (RUL) for individual components of the facility with direction from the SOCWA Engineering Committee. The RTP and CTP facility RUL breakdown is included in Appendix B. Large Capital Funds held on Account continued to be spent at RTP and CTP. Close of Fiscal Year (6/30/2022) with expected \$11.86 million in capital construction currently underway, including work for:

- CTP Aeration Diffusers Construction
- CTP Export Sludge Mitigation
- CTP Personnel Building Reconstruction
- CTP Fiber Installation to Alicia Parkway
- CTP Foul Air Scrubber Replacement Project
- RTP MCC A, C, G, & H Construction
- RTP Aeration Diffusers Construction
- RTP AWT #2 Reconstruction • Effluent Transmission Main (ETM) Air Valves D and E
- Effluent Transmission Main (ETM) Trail Bridge Crossing Protection
- Aliso Creek Ocean Outfall (ACOO) Internal Seal Replacement
- Continue work on SOCWA's Large Capital Improvement Reporting.
- Continue quarterly Capital Program Invoicing to collect funding only when due to be expended

Part 4: Findings

All agencies are in various stages of their asset management program implementations. Agencies are properly planning, maintaining, and replacing small capital and large capital in conformance with these NPDES requirements. Through inspections conducted by SDRWQCB staff after the adoption of the NPDES permit, there were no deficiencies found. This concludes that agencies are taking proper care and maintenance of their facilities as required by the NPDES permit.

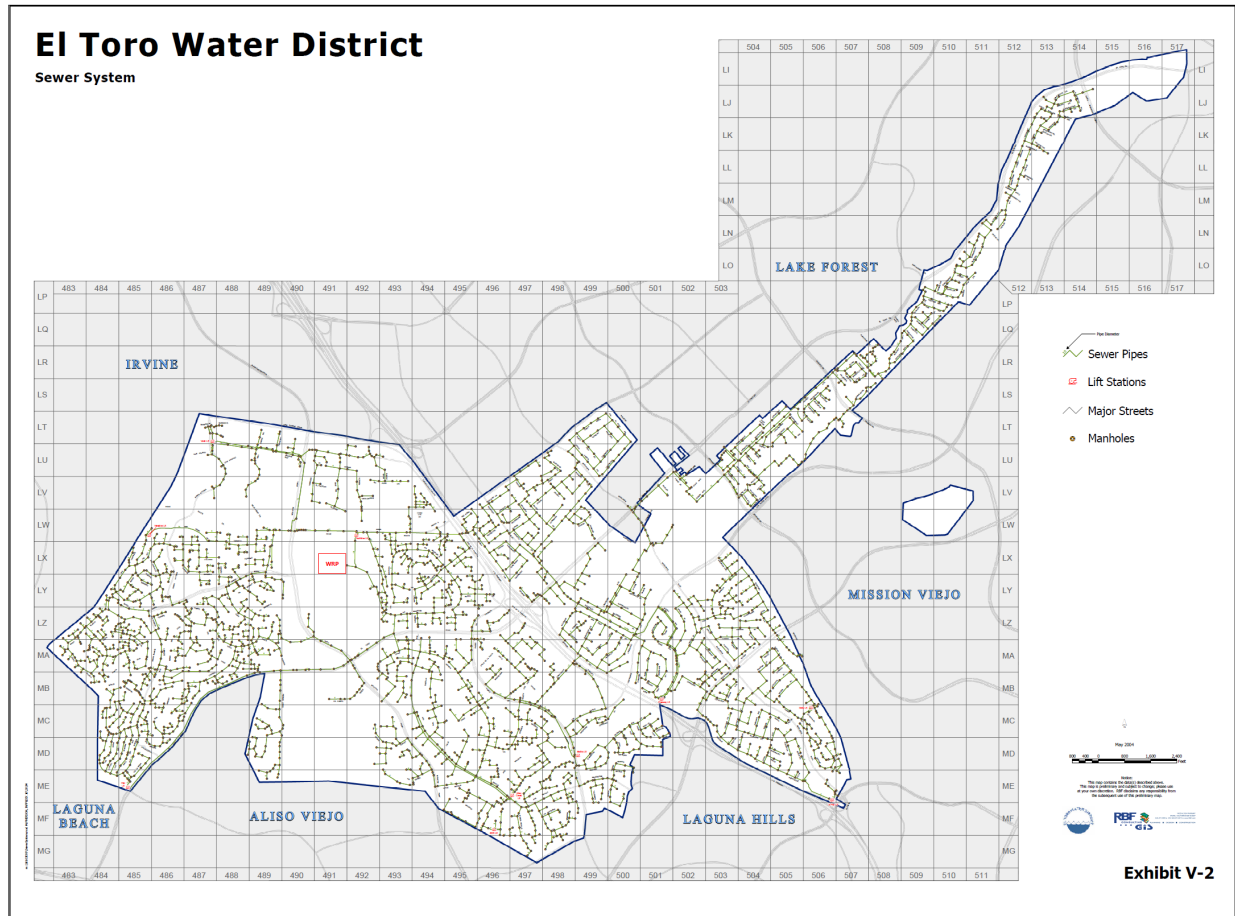
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Appendices

Included in this section are appendices to provide additional details based on narratives in the main body of this report.

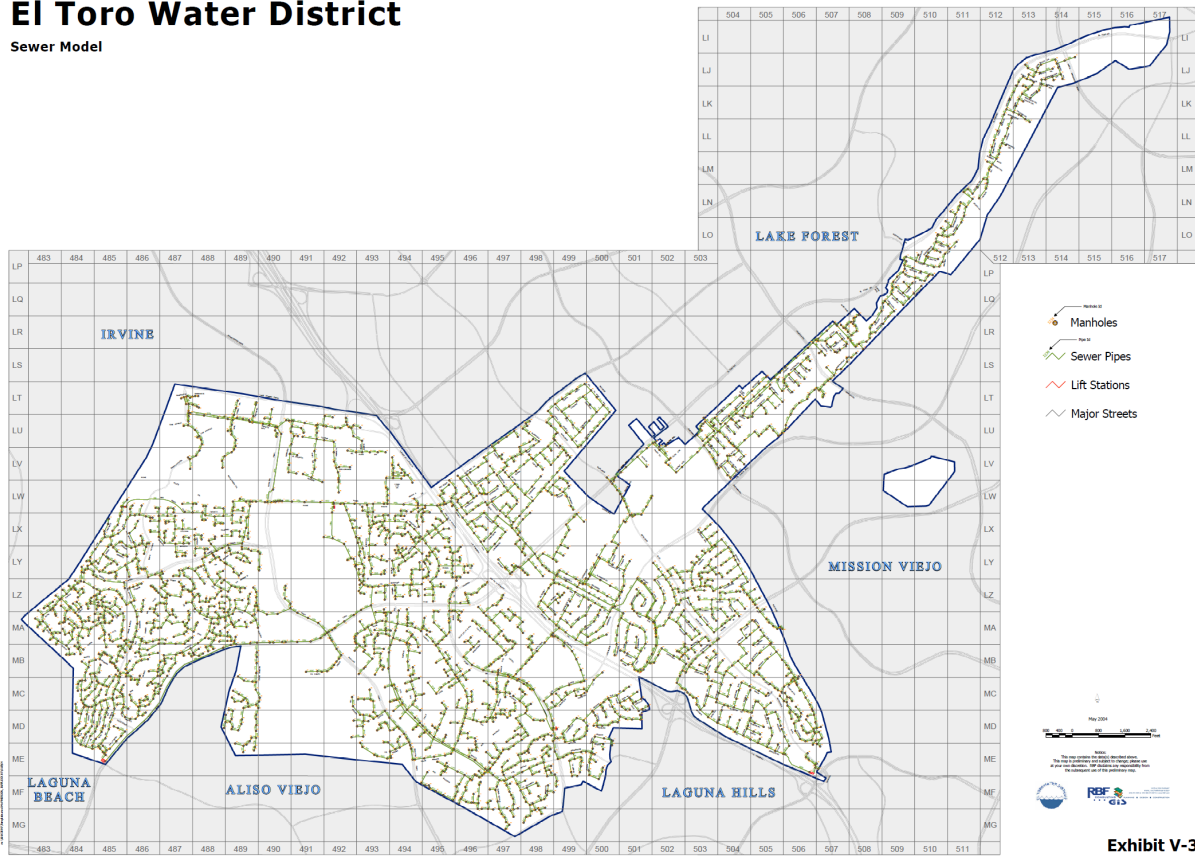
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Appendix A - Overview of ACOO Discharge Facility Infrastructure in Compliance with § 6.3.5.7.3.
From ETWD Master Plan:



El Toro Water District

Sewer Model

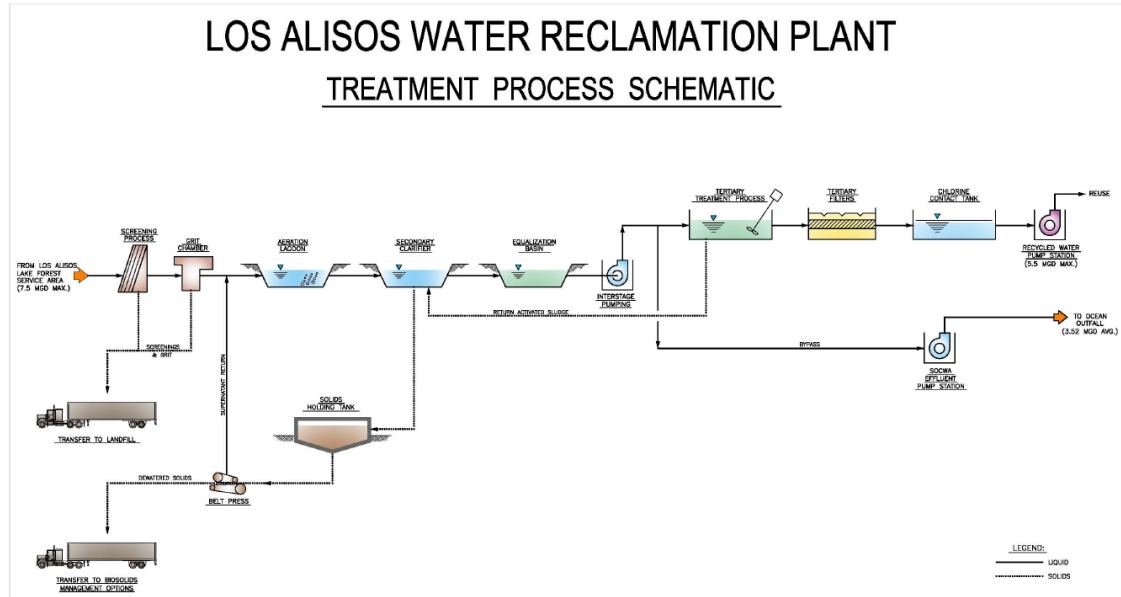


EL TORO WATER DISTRICT WATER RECYCLING PLANT

TREATMENT PROCESS SCHEMATIC



Flow Schematic 3 – Los Alisos Water Reclamation Plant

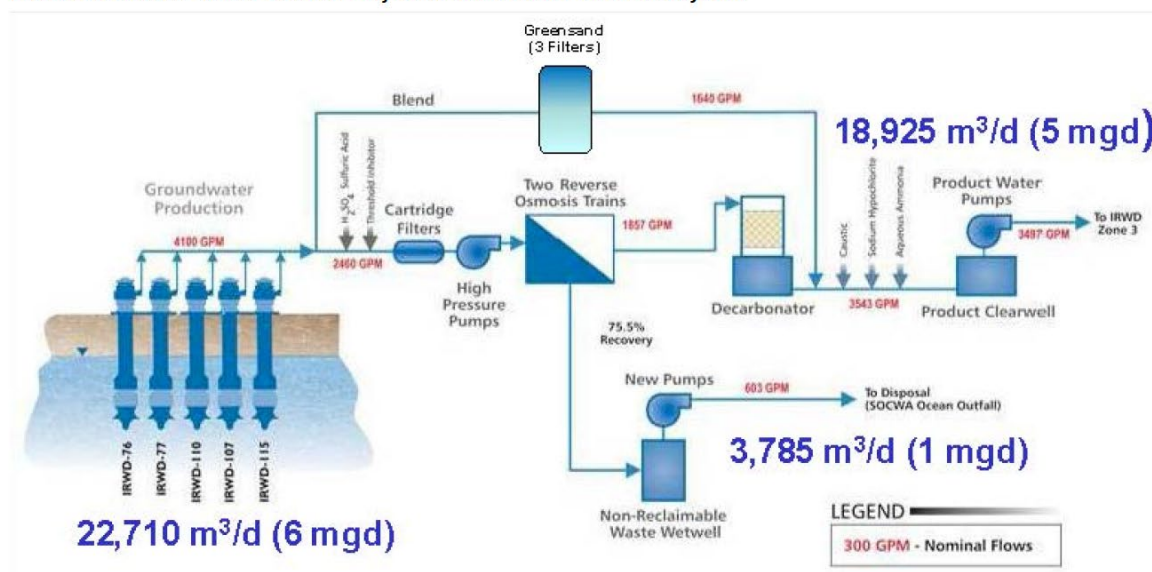


Attachment C – Flow Schematics

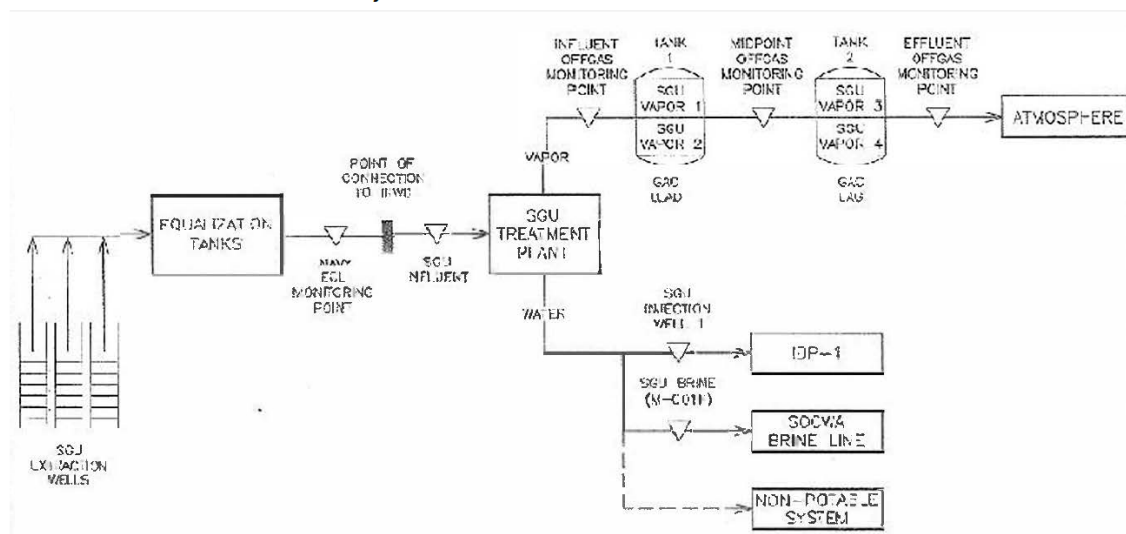
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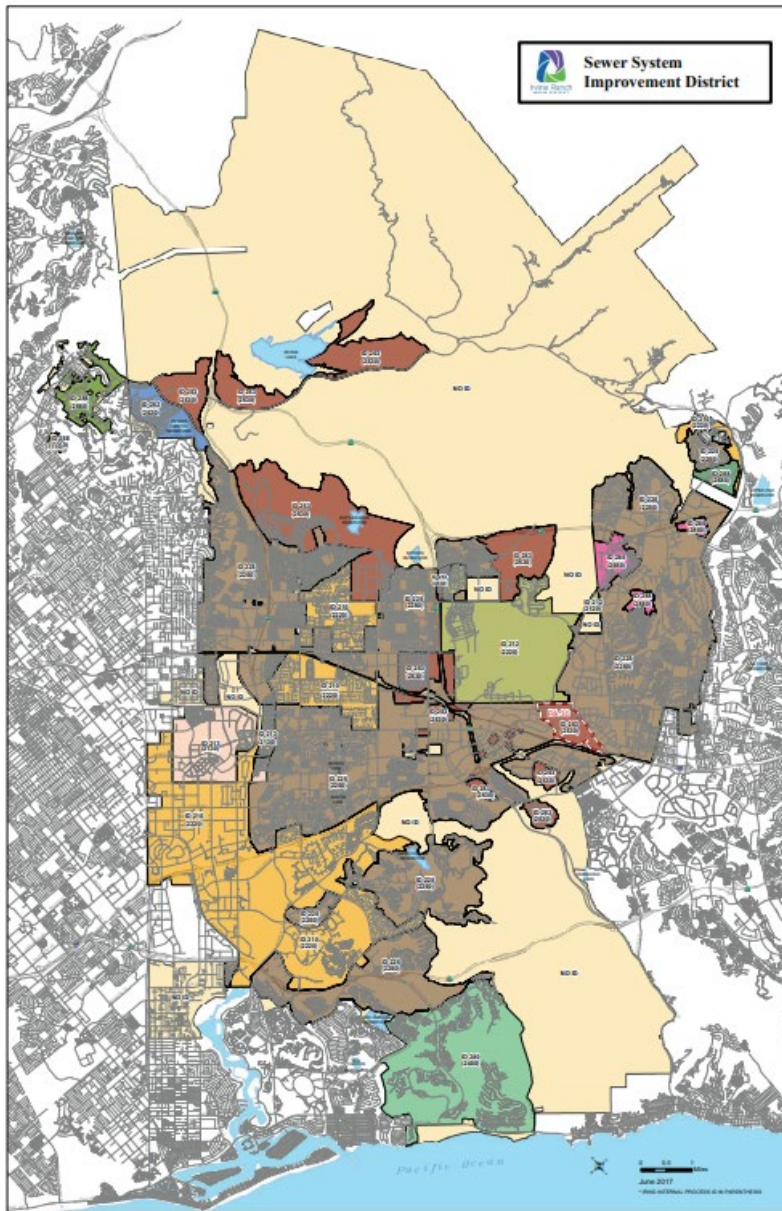
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Flow Schematic 5 – Irvine Desalter Project Portable Water Treatment System



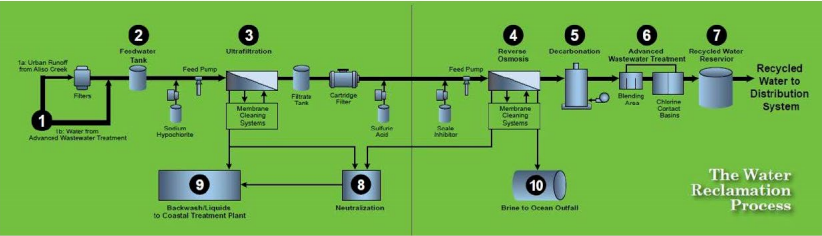
Flow Schematic 6 – Irvine Desalter Project Shallow Groundwater Unit





SCWD

Flow Schematic 7 - South Coast Water District Aliso Creek Water Reclamation Facility



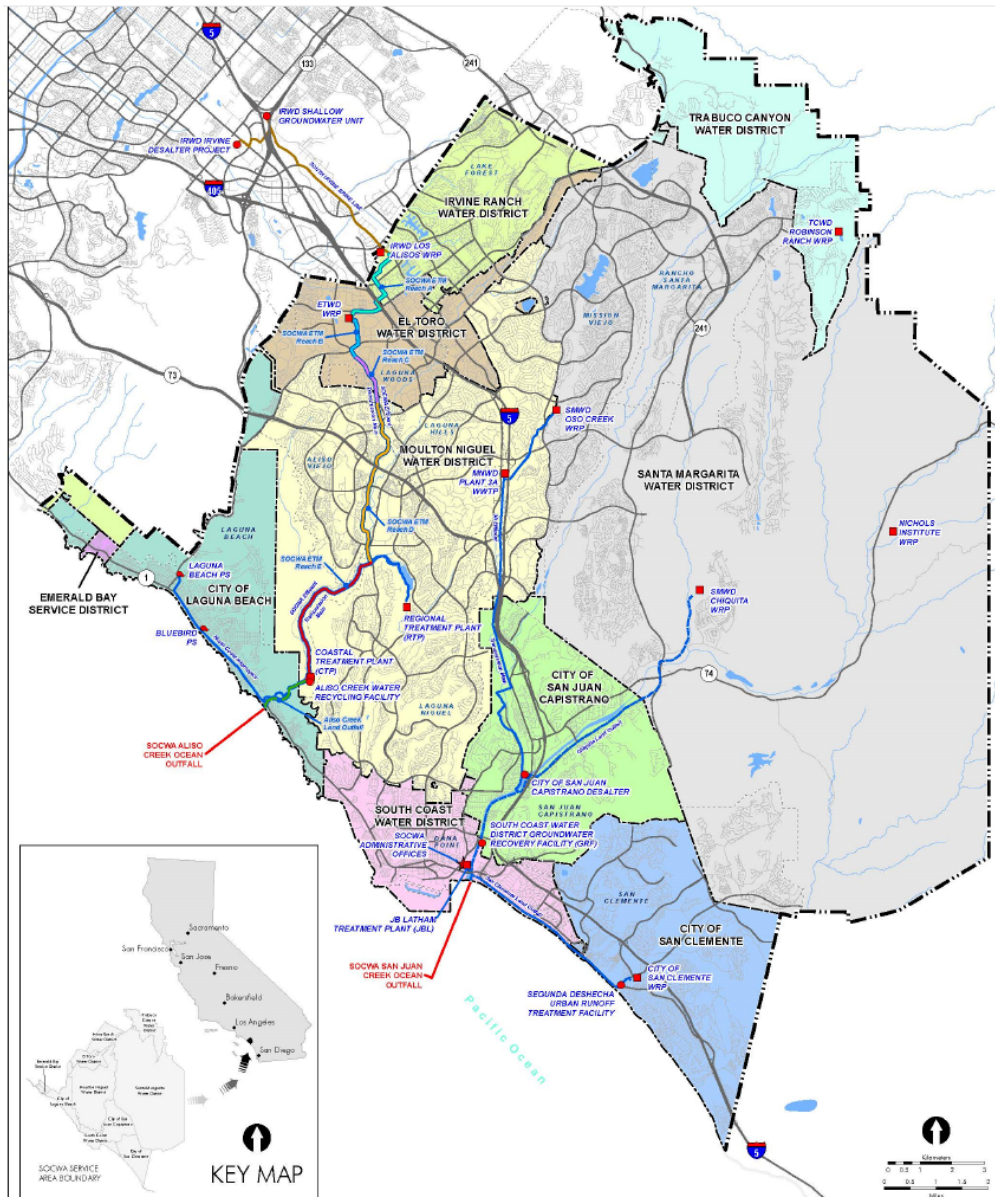
Attachment C – Flow Schematics

C-7

SOCWA

ATTACHMENT B – MAP

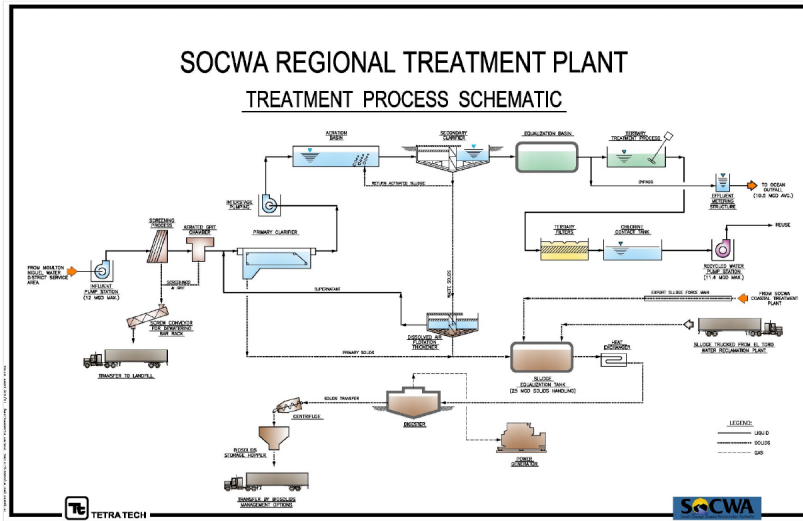
Map 1 - SOCWA Facilities³ and Service Area



³ The South Orange County Wastewater Authority (SOCWA) Regional Treatment Plant (SOCWA RTP), SOCWA Coastal Treatment Plant (SOCWA CTP), Irvine Ranch Water District Los Alisos Water Reclamation Plant (WRP), El Toro Water District WRP, Irvine Desalter Project Portable Water Treatment System (PWTs), Irvine Desalter Project Shallow Groundwater Unit (SGU), South Coast Water District Aliso Creek Water Reclamation Facility (WRF), the associated land outfalls, and Aliso Creek Ocean Outfall (ACOO).

ATTACHMENT C – FLOW SCHEMATICS

Flow Schematic 1 – SOCWA Regional Treatment Plant

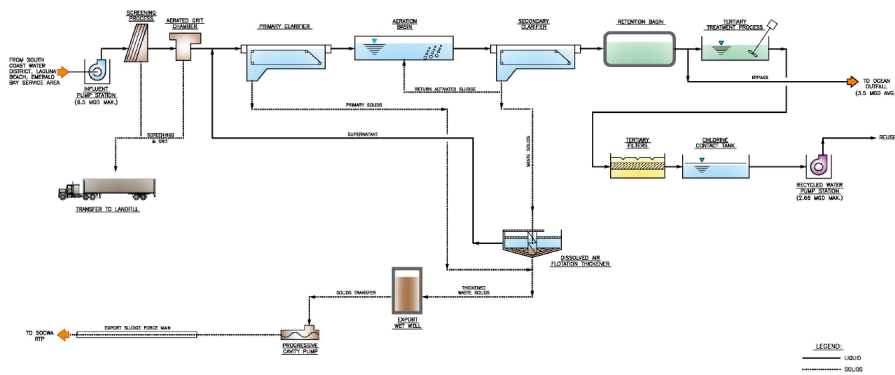


Attachment C – Flow Schematics

C-1

Flow Schematic 2 – SOCWA Coastal Treatment Plant

SOCWA COASTAL TREATMENT PLANT
TREATMENT PROCESS SCHEMATIC



Attachment C – Flow Schematics

C-2

Regional Treatment Plant

[illegible]

Include the entire RUL list in the final packet to SDRWQCB

Include pdf in the packet to SDRWQCB

[illegible]

Agenda Item

9.F.

Budgeted: Yes

Budget Available: \$75,000

Line Item: PC 2, 15, and 17 Small Capital

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: New Electric Truck Purchase 2022 [Project Committee Nos. 2, 15, and 17]

Summary

SOCWA needs to replace a 2004 pickup truck at the end of its useful life. The State of California is implementing several regulations to reduce air emissions from vehicles by encouraging the purchase of electric vehicles. To support this Statewide goal, SOCWA staff is requesting to replace an older gasoline vehicle with an electric vehicle. However, due to the difficulties in supply chains affecting auto dealerships, SOCWA staff is also requesting that the General Manager be authorized to purchase the vehicle for an amount not to exceed \$75,000.

Discussion

Supply chain disruptions and increased electric vehicle demand have eliminated the traditional bidding process. Instead, SOCWA staff will directly order a 2023 F-150 Lightning Pro from Ford. The F-150 Lightning Pro is the lowest-cost option for a comparable pickup truck to the vehicle being replaced.

SOCWA staff has been researching prices for a 2022 F-150 Lightning Pro and the costs range from \$40,000 to \$67,000. The 2022's are unavailable, but Ford will be taking orders for 2023's soon. The price for the 2023 base model is expected to be \$47,000 (plus tax, shipping, and other fees). However, because the exact price and model options will not be known until the vehicle is ordered, SOCWA staff is requesting the General Manager be authorized up to \$75,000.

Fiscal Impact

The truck will be a common small capital expense split equally between PC2 - JBL, PC15 - CTP, and PC17 - RTP. The allocation for the \$75,000 budget is shown below:

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		Common Allocation
PC2-JBL	Total	
MNWD	\$5,587.50	22.35%
SCWD	\$6,105.00	24.42%
SMWD/CSJC	\$13,307.50	53.23%
Subtotal	\$25,000.00	100.00%

		Liquids/ Common Allocation
PC15-CTP	Total	
CLB	\$9,477.50	37.91%
EBS	\$747.50	2.99%
MNWD	\$7,312.50	29.25%
SCWD	\$7,462.50	29.85%
Subtotal	\$25,000.00	100.00%

		Common Allocation
PC17-RTP	Total	
CLB	\$1,567.50	6.27%
EBS	\$82.50	0.33%
ETWD	\$2,565.00	10.26%
MNWD	\$19,532.50	78.13%
SCWD	\$1,252.50	5.01%
Subtotal	\$25,000.00	100.00%

Agency Totals	Total
CLB	\$11,045.00
EBS	\$830.00
ETWD	\$2,565.00
MNWD	\$32,432.50
SCWD	\$14,820.00
SMWD/CSJC	\$13,307.50
Totals	\$75,000.00

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to purchase an electric pickup truck for an amount not to exceed \$75,000.

Agenda Item

9.H.

Board of Directors Meeting

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACTS: Mary Carey, Finance Controller

SUBJECT: Cost of Service Restructure Opportunities for SOCWA

At the All-Hands Meeting held August 31, 2022 (for presentation of the facilitator report) members of the Board noted that the JPA revisioning process should once again move ahead with opportunities, among others, including a look at options to simplify the method of cost collection and the associated reporting and documentation (budgets, year to date reports and use audits). Staff noted there are opportunities to better align costs to the services provided to the member agencies. Staff offered to proposed concepts in this regard with some Board Members expressing an interest in that approach.

Staff developed a conceptual approach to budget and cost restructuring and is seeking input of the agencies and the concurrence of the Board to further define opportunities. Staff identified the following goals for the restructuring include:

1. Simplify the budgeting and reporting information delivered to the Member Agencies so they can better understand their cost profiles and what they pay for. Reduced reporting, paperwork and numbers of meetings associated with budgeting, reconciliation, and financial reporting. Selection of the most meaningful information for regular reporting.
2. Maintain the integrity of paying for what is utilized, e.g. liquids treatment, solids treatment, common costs, fixed costs accountability, truly variable costs, and semi-variable costs (i.e. electricity that never gets turned off, chemical usage baseline amounts, etc.).
3. Eliminate the practice of overcharging users for costs not borne by entities that retain the ability to send flow but elect not to send flow (i.e. facility is available and maintained at all times).
4. Separate costs into baseline flows (predictable day to day dry weather averages charged based on the ability of the member agencies to impact the plants on behalf of their customer base), "on/off" flows (entities that elect to intermittently stop treatment at up-stream facilities due to poor treatment conditions or recycling choices) whereby flows are delivered to SOCWA plants (JBL, CTP), and third, a "wet weather" component to compensate those portions of the plant and services utilized most when wet weather conditions occur (a controllable discharge category). Staff estimates for example at JBL baseline flows would be 5 mgd per day, on/off usage can push total daily up to 8 mgd (flows from Oso Plant and 3A Plant) and wet weather to 13 mgd+.
5. Create opportunity for Member Agencies to elect to pay for "reserving capacity" for wet weather events.

Staff recommends that development of the restructure could proceed with the following steps to creating a Cost Profile / Payment Obligation Model for each Member Agency:

1. Step 1 - an analysis by SOCWA staff of historical data, laboratory, and compliance side services to determine the value for each member agency of its required “baseline capacity”¹. The same determination would be made as a recommendation for each agency’s “on/off” capacity and “wet weather” capacity.
2. Step 2 would be the segregation of current costs to align with each category (continuing to evaluate the underlying delineation of costs as liquids, common, solids or AWT).
3. Step 3 would be a summary “take or pay” proposal to each agency for service. Election of the service would be a contractual commitment to SOCWA and other Member Agencies of obligation to pay for the service. Policing of the “take” would be accomplished by SOCWA staff periodic assessments, monitoring flows and collecting data on solids profiles of the members to establish the usage is within normal operating parameters.
4. Step 4 would set a 3-5 year individual agency cost projection based on Step 3 to become a Member Agency contractual service commitment. Cost projections and revenue needs would be utilized for budget development.
5. Agencies would be prohibited from sending flows to plants above their contractual service commitment, and would pay additional costs or resulting fines or damages for exceedances of their “take or pay” limits.
6. Agencies would adjust their “take or pay” commitments on 3 year cycles with 2 years advanced notice of a need for additional facility capacity in any category.
7. Based on demonstrated performance and compliance with the “take or pay” capacity commitment methodology, SOCWA would take progressive steps to downsize facilities and reduce future capital investments as necessary. Costs of downsizing would be part of the baseline and on/off cost commitments.
8. Funding provided in excess of actual costs if any would be dedicated to operating reserves or used to pay down unfunded liabilities.
9. Member Agencies would be paying their share of the total cost in direct proportion to the committed capacity each acquired.

Recommended Action: Board consideration and comments. Direction to Staff to investigate services needed to pursue development of cost of service restructure opportunities.

¹ Certain SOCWA service may not translate to capacity – for example recycled water permitting activities of PC 12 and would be described as “baseline activities”.

Agenda Item

9.I.

Board of Directors Meeting

Meeting Date: October 6, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

SUBJECT: South Coast Water District (SCWD) Desalination – Project Support Request

At the recent Orange County Water Summit (hosted by Municipal Water District Orange County) attendees heard the dire predictions for California water supplies into the near term with the possibility of severe curtailments. Infrastructure projects to address additional water deliveries and storage opportunities are years away from agreements and funding. South Coast Water District is nearing the point of consideration before the Coastal Commission for its proposed desalination project. SCWD staff have reached out to ask SOCWA for support and participation in testimony at the Coastal Commission meetings for consideration. Points that may be raised in support of the project could include:

- The project technology is unique and developed to address environmentally sensitive areas. The project will enhance water reliability for the region. As a partner agency to SCWD, SOCWA has observed the agency has worked collaboratively for more than eight years with stakeholders and officials with local cities, other special districts, nonprofit organizations, tribal nations, and others in Orange County and regionally in furtherance of this Project. The region will also benefit from State and Federal grant funding levels secured by SCWD at more than \$32 million.
- South Orange County is roughly 90% dependent on imported water supplies, and it is a testament to SCWD efforts and other projects being brought forward to diversify water supply portfolios and reduce dependence on imported water. The severe stress conditions of the Colorado River and State Water Project will during ongoing historic drought conditions hit hardest those communities most dependent on stressed and aging water delivery systems.
- In addition to the water supply benefits, we support this Project because it complies with the California Ocean Plan and protects the marine environment by implementing the preferred intake and discharge technologies, i.e., using a subsurface ocean water intake system to draw water passively through the ocean floor and comingling the “post-desalination” brine back with treated wastewater for disposal through SOCWA’s existing outfall.
- The serious implications of drought restrictions on our local communities, especially when combined with the region’s overwhelming reliance on imported water, justifiably inspire SCWD and its neighboring districts to be innovative in their ongoing mission to achieve a diverse and reliable portfolio of water projects and management strategies. The Project has the potential to be a local and regional asset, reducing south Orange County’s reliance on imported water and ensuring supply reliability in the event of a natural disaster or other major emergency.

Recommended Action: Board consideration and comments. Direction to Staff to prepare correspondence and participate in support of the South Coast Water District desalination project.

September 30, 2022

Donne Brownsey
Chair
California Coastal Commission
455 Market Street, Suite 300
San Francisco, CA 94105
Donne.Brownsey@coastal.ca.gov

Dear Chair Brownsey:

On behalf of {agency/organization}, I am pleased to convey and share with your Commission our strong support for the Doheny Ocean Desalination Project.

This technologically unique and environmentally sensitive ocean water desalination project will enhance water reliability for South Coast Water District (SCWD) and the region. SCWD has worked collaboratively for more than eight years with stakeholders and officials with local cities, other special districts, nonprofit organizations, tribal nations, and others in Orange County and regionally in furtherance of this Project. SCWD has also worked diligently at the State and Federal levels to secure more than \$32 million in critical grant funding for the Project to date.

This Project will enable SCWD to further diversify its water supply portfolio and reduce its dependence on imported water from the severely stressed Colorado River and State Water Project, especially during times of historic drought conditions which will become more frequent as climate change evolves. The Project is particularly important to south Orange County, which is roughly 90% dependent on these imported water supplies.

In addition to the water supply benefits, we support this Project because it complies with the California Ocean Plan and protects the marine environment by implementing the preferred intake and discharge technologies, i.e., using a subsurface ocean water intake system to draw water passively through the ocean floor and comingling the “post-desalination” brine back with treated wastewater for disposal through an existing outfall.

The serious implications of drought restrictions on our local communities, especially when combined with the region’s overwhelming reliance on imported water, justifiably inspire SCWD and its neighboring districts to be innovative in their ongoing mission to achieve a diverse and reliable portfolio of water projects and management strategies. The Project has the potential to be a local and regional asset, reducing south Orange County’s reliance on imported water and ensuring supply reliability in the event of a natural disaster or other major emergency.

It is a pleasure to convey our {office’s/agency’s/organization’s} strong support of the California Coastal Commission’s consideration and approval of the Doheny Ocean Desalination Project. Thank you for your consideration and for your ongoing commitment to and efforts on behalf of our residents, businesses, and the region’s resources.

Sincerely,

Agenda Item

9.K.

Board of Directors Meeting

Meeting Date: October 6, 2022

TO: Board of Directors
FROM: Betty Burnett, General Manager
SUBJECT: General Manager's Status Report

ADMINISTRATION

Member Agency Requests

The General Manager as directed at the May 10, 2022, Executive Committee Meeting to include in the GM Report a summary of Member Agency Requests. The following requests of SOCWA staff have been received and responded to:

1. Request to General Manager –
 - Moulton Niguel Water District: Director Collings numerous phone calls to the General Manager regarding MNWD request to take over operations of the RTP AWT. Letter received from General Manager Lopez requesting a November 1, 2022, transition schedule. Numerous emails, outreach to SOCWA operations staff from MNWD staff with multiple requests for background information, SCADA instrumentation instructions, etc. The SOCWA General Manager has asked MNWD to follow the process identified at the September 1, 2022, Board meeting whereby SOCWA staff is in preparation of a draft of possible agreement and terms to be brought back to the SOCWA Board for consideration.
2. Requests to Finance/Controller-
 - Santa Margarita Water District: Submitted questions regarding the Draft Use Audit 2021/22 previewed at the Finance Committee (information submitted with Agenda Item 5.D.)
3. Requests to Director of Engineering –
 - City of Laguna Beach: Information request from CLB staff for documents needed for their iBank loan. Director of Engineering coordinated with Finance Controller and Procurement/Contract Manager to find all the documents and sent them to CLB staff.

Report on Employee Reimbursements

Government Code Section 53065.5 requires that each special district disclose annual reimbursements paid of at least \$100 for individual charges for services or products received. Disclosable items include meals, transportation, lodging and registration fees paid to board members or employees. The attached reimbursements list for FY 2021-22 meets the disclosure requirement.

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ENVIRONMENTAL COMPLIANCE

WateReuse Presentation

SOCWA Director of Environmental Compliance, Amber Baylor, provided a Microplastics presentation at the WateReuse conference in San Francisco on September 13, 2022. The microplastics presentation reviewed the evolving science, regulatory assessment thresholds and management actions taken to track this emerging contaminant. Of interest is the food dilution ranges that would trigger investigation, discharge monitoring, management planning, and source control measures. The tiered structure of proposed management actions rely on the combination of marine and freshwater species in a statistical distribution across habitat type to trigger a tiered management action. The scientific approach is the first to ascribe regulatory thresholds in a numerical nature for potential permit requirements. The Coastal Treatment Plant participated in the Ocean Protection Council's Microplastics pilot program. Results from that study are still under review.

Bacterial Summit

Ms. Baylor was also invited to attend the State Water Resources Control Board (SWRCB) and California Association of Stormwater Quality Association (CASQA) sponsored event, held in person in Sacramento. The event focused on the science of developing risk-based thresholds and the implementation role of the regulators under site specific criteria, allowable under the BEACH Act. On Day 1, science representatives from SCCWRP, Stanford, and an independent consultant provided the research that they are engaged. Representatives from the EPA's Office of Science and Technology, EPA Region 9, SWRCB Staff, and Regional Board Representatives provided their perspective on protecting waters that are safe to swim, and shellfish that are safe to eat. The wastewater community representatives from CASA, SCAP, and CVCWA provided key insights to questions related to removal of bacteria and viruses from the wastewater process related to questions that the stormwater community had about discharge quality. The stormwater community also provided their current two-pronged hypothesis testing for compliance with Bacterial TMDLs. The first prong is a "surgical approach" utilizing source tracking techniques with a variety of human and chemical markers. The second approach is the implementation of green infrastructure with costs per acre foot upwards of \$1M/acre foot. Both approaches are still under pilot testing to ascertain if compliance with bacterial TMDLs can be achieved.

CASA Regulatory Workgroup Strategic Session

Ms. Baylor participated virtually in the land and water sessions for regulatory priority setting with the CASA Regulatory Workgroup (RWG). The priorities include PFAS, SB1383, Recycled Water, Nutrients, and Exfiltration.

SCCWRP Commissioner Hearing

On September 9, 2022, SCCWRP Commissioners received an update related to the ROMS-BEC model. Climate variability and seasonality were brought up by LACSD with admission that the model will have variability outside what has been presented thus far. Representatives from the SWRCB indicated that the model is contemplated to be used as a requirement for SRF funds for recycled water projects. CASA, SOCWA, and City of San Diego provided comments on the need for an independent review of the model prior to any regulatory mechanism for use of the model. SOCWA continues to engage with the big four agencies and industry groups on a larger independent review of the model. SOCWA continues to move the independent review work with Michael Baker International forward.

Water Quality Input

Ms. Baylor provided the City of Laguna Beach with input related to harmful algal blooms and nutrients related to the San Francisco Bay hypoxic event related to NGO questions posed to the City of Laguna Beach's Environmental Sustainability Committee. Ms. Baylor also provided an update to the Santa Margarita Water District's Water Quality and Technology Committee on Microplastics, CASQA/SWRCB Bacterial Summit, and CASA RWG strategy items.

OPERATIONS

SOCWA Director of Operations, Jim Burror, will provide an update on ongoing projects and electrical system outages and impacts at the Board Meeting.

REIMBURSEMENT LOG FISCAL YEAR 2021-2022

Employee Name	Date	Ck #	Amount	Description
Ash, Dina				
	9/28/2021	3193	\$193.90	Binders for Contracts
	9/2/2021	3157	\$386.00	Board Meeting Costs
Baranowski, David				
	4/6/2022	3515	\$180.00	Renewal PE license
			\$332.00	CWEA Membership
Broedner, Lance				
	4/18/2022	9437	\$200.00	Safety Shoes
	5/3/2022	9496	\$192.00	CWEA Membership
Christensen, Paul				
	5/11/2022	9513	\$200.00	Safety Shoes
			\$314.68	Propane for RTP
Connor, Teri				
	8/4/2021	3089	\$283.80	WW class
		3332	\$295.00	Grade 3 Exam Fees
		3318	\$283.80	WW class
		3441	\$225.00	Grade 3 Certificate Fees
Cotinola, Jeanette				
	2/9/2022	3419	\$252.28	CAPPO Conference Lodging
			\$110.45	Milage
			\$125.00	Course Fee
	6/13/2022	3628	\$1,070.50	Tuition Rembursement
Culver, Bob				
	9/22/2021	8693	\$192.00	CWEA Membership
DosSantos, Bruno				
	8/3/2021	8571	\$200.00	Safety Shoes
Gardner, Richard				
	12/1/2021	3284	\$199.95	Safety Shoes
	4/18/2022	3537	\$298.00	CWEA & SARBS Cert/Membership
Gesiriech, Gage				
	2/3/2022	9135	\$200.00	Safety Shoes
Greenwood, Katie				
	6/2/2022	9594	\$179.96	NACWA Conference Lodging
Griely, Dan				
	12/1/2021	8936	\$179.43	Safety Shoes
Jardin, Sean				
	3/29/2022	9382	\$223.47	Milage
Le, Christopher				
	9/22/2021	8703	\$192.00	CWEA Membership
	10/4/2021	8747	\$136.66	Aqua Shoes/LAB
	1/12/2022	9039	\$180.00	CWEA Grade 1 Lab Analyst Exam Fee
LaRoche, Lance				
	9/29/2021	3196	\$112.00	Milage
	1/20/2022	3377	\$295.00	Grade 5 Certificate Fees
Looska, Ian				
	7/7/2021	8445	\$200.00	Safety Shoes
	1/12/2022	3350	\$195.00	Mechanic Tech Grade 2 Exam Fee
Luce, Daethina				
	9/19/2022	3800	\$200.00	Safety Shoes
Luce, Kristopher				
	8/26/2021	3142	\$200.00	Safety Shoes

REIMBURSEMENT LOG FISCAL YEAR 2021-2022

Employee Name	Date	Ck #	Amount	Description
	3/10/2022	3479	\$249.00	Electrical License Renewal
Matson, Micheal				
	11/16/2021	8895	\$200.00	Safety Shoes
Montoya, Morgan				
	10/4/2021	8751	\$200.00	Safety Shoes
	6/2/2022	9602	\$192.00	CWEA Membership
Navarro, Jose				
	7/28/2021	8530	\$200.00	Safety Shoes
Paddock, William				
	1/12/2022	9056	\$220.25	Emergency Repair AirVac
	1/12/2022	9056	\$215.18	Misc. Supplies at RTP from Home Depot
	4/18/2022	9461	\$335.88	Reducer Repair RTP
			\$106.00	CWEA Certificate Renewal
			\$223.07	Replace SOCWA Phone Screen and Battery
			\$1,300.00	Peterbilt Tow by AV Towing
	5/11/2022	9532	\$607.79	Misc. Supplies at RTP from Home Depot
Padilla, Derek				
	12/15/2021	8991	\$101.00	CWEA Grade 3 Renewal
	5/3/2022	9506	\$192.00	CWEA Membership
Peacher, Sean				
	1/12/2022	9057	\$134.40	Mileage
Peter, Phillip				
	6/15/2022	9650	\$101.00	CWEA Membership
Plesa, Anthony				
	12/15/2021	8992	\$180.00	Mechanic Tech Grade 1 Exam Fee
	3/3/2022	9267	\$192.00	CWEA Membership
	7/5/2022	9723	\$195.00	Mechanic Tech Grade 2 Exam Fee
Reed, David				
	8/4/2021	8559	\$192.00	CWEA Membership
	9/22/2021	8712	\$106.00	CWEA Certificate Renewal
Rosas-Duarte, Fernando				
	2/3/2022	3413	\$106.50	RX Safety glasses
Santos, Charles				
	2/3/2022	9142	\$397.32	RMA Shipping to Teledyne
	6/24/2022	9684	\$194.00	Lodging for P35 Conference
Stiles, Michael				
	2/9/2022	9179	\$192.00	CWEA Membership
	4/18/2022	9470	\$180.00	CWEA Mechanic I Certificate Fee
Terrebonne, Kirk				
	12/1/2021	8959	\$150.00	CWEA Certificate Renewal
Unzen, Adam				
	4/6/2021	9431	\$295.00	Grade 3 Certificate Fees
Vassell, Bradley				
	1/12/2022	4493	\$449.30	Tuition Reimbursement
	8/26/2021	3154	\$101.39	WW Class for Grade 5
Velasco, Fernando				
	8/4/2021	8562	\$101.00	CWEA Certificate Renewal
	10/21/2021	8834	\$200.00	Safety Shoes
Vincent, Kyle				
	11/16/2021	8911	\$210.00	Mechanic Tech Grade 3 Certificate Fee

REIMBURSEMENT LOG FISCAL YEAR 2021-2022

Employee Name	Date	Ck #	Amount	Description
	6/24/2022	9691	\$192.00	CWEA Membership
Wang, Katrina				
	1/12/2022	3360	\$238.47	Shipping for weights and thermometers
Watson, Laura				
	10/4/2021	8768	\$200.00	Safety Shoes
Young, Roni				
	10/13/2021	3230	\$164.00	PMI Membership
	4/6/2022	3530	\$332.00	WEF Membership

RESOLUTION NO. 2022-04

**A RESOLUTION OF THE BOARD OF DIRECTORS
OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
HONORING TONI ISEMAN FOR 24 YEARS OF SERVICE TO
CITY OF LAGUNA BEACH**

WHEREAS, Ms. Toni Iseman has dedicated 24 years of service as Councilwoman to the City of Laguna Beach; and

WHEREAS, Ms. Iseman while serving as the Mayor of Laguna Beach was the recipient of the 2017 Community Hero Award for her service to the Laguna Beach Community; and

WHEREAS, Ms. Iseman was honored as the Woman of the Year in 2019 by the Laguna Beach Woman's Club; and

WHEREAS, Ms. Iseman served on the California Coastal Commission from 2003 to 2005 by appointment of the California State Senate; and

WHEREAS, In the early 2000's, Ms. Iseman began her service on the South Orange County Wastewater Authority (SOCWA) Board of Directors. In 2006 during her tenure, she was elected Chairwoman of the Board and served on the Finance Committee and as an Executive Committee member. As a SOCWA Board member, Ms. Iseman worked to protect the ocean environment, and recognized the value of SOCWA as an independent oversight agency.

THEREFORE, BE IT RESOLVED: The Board of Directors of the South Orange County Wastewater Authority wishes to honor Ms. Toni Iseman for her outstanding contributions and dedication to the South Orange County Wastewater Authority, for her environmental commitment and exemplary leadership during her tenure on the City of Laguna Beach Council and her devoted service to the Coastal Community.

PASSED, ADOPTED, AND SIGNED this 6th day of October 2022.

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

By: _____
Matt Collings, Chairman

(Seal)

By: _____
Betty Burnett, Board Secretary

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, BETTY BURNETT, Secretary of the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY (“SOCWA”), do hereby certify that the foregoing is a full, true and correct copy of **Resolution No. 2022-04** of said Board and that the same has not been amended or repealed.

Dated this 6th day of October 2022.

Betty Burnett, Board Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY