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.

B. Burnett

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

AGENDA

Regular Meeting
of the
South Orange County Wastewater Authority
Board of Directors

To Be Held by Teleconference on:
August 5, 2021
8:30 a.m.

MEMBERS OF THE PUBLIC ARE INVITED TO PARTICIPATE IN THIS TELECONFERENCE MEETING AND MAY JOIN THE MEETING VIA THE TELECONFERENCE PHONE NUMBER AND ENTER THE ID CODE. 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. 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.

FOR MEETING PARTICIPATION:

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

Meeting ID: 831 5433 8453
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AGENDA

1. CALL MEETING 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.

PAGE NO

4. CONSENT CALENDAR

A. Minutes of Board Meeting 1

- Board of Directors Budget Workshop May 20, 2021
- Board of Directors June 3, 2021

ACTION The Board will be requested to approve subject Minutes as submitted.

B. Minutes of Finance Committee Meeting 13

- Finance Committee Minutes April 20, 2021
- Finance Committee Minutes May 6, 2021

ACTIONS The Board of Directors will be requested to receive and file subject Minutes.

C. Minutes of Engineering Committee Meeting 20

- Engineering Committee Minutes April 8, 2021

ACTION The Board of Directors will be requested to receive and file subject Minutes as submitted.

D. Financial Reports for the Month of April 2021 24

The reports included are as follows:

1. Summary of Disbursements for April 2021 (Exhibit A
2. Schedule of Funds Available for Reinvestment (Exhibit B)
   - Local Agency Investment Fund (LAIF)
3. Schedule of Cash and Investments (Exhibit C)

4. Capital Schedule (Exhibit D)
   - Capital Projects – Graph (Exhibit D-1)
5. 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)

ACTION The Finance Committee recommends to the Board of Directors to ratify the April 2021 disbursements for the period from April 1, 2021, through April 30, 2021, totaling $4,246,299 and to receive and file the April 2021 Financial Reports as submitted.

E. Financial Reports for the Month of May 2021 42

The reports included are as follows:

1. Summary of Disbursements for May 2021 (Exhibit A
2. Schedule of Funds Available for Reinvestment (Exhibit B)
   - Local Agency Investment Fund (LAIF)
3. Schedule of Cash and Investments (Exhibit C)
4. Capital Schedule (Exhibit D)
   - Capital Projects – Graph (Exhibit D-1)
5. 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)

ACTION The Finance Committee recommends to the Board of Directors to ratify the May 2021 disbursements for the period from May 1, 2021, through May 31, 2021, totaling $3.146.986, and to receive and file the May 2021 Financial Reports as submitted.

F. May 2021 Operations Reports.....60

1. Monthly Operational Report
2. SOCWA Ocean Outfall Discharges by Agency
3. Beach Ocean Monitoring Report
4. Recycled Water Report
5. Pretreatment Report

ACTION The Board will be requested to receive and file the May 2021 Operations Reports as submitted.

G. June 2021 Operations Reports.....100

1. Monthly Operational Report – Fiscal Year 2020-21
2. SOCWA Ocean Outfall Discharges by Agency
3. Fiscal Year Report on Key Operational Expenses
4. Beach Ocean Monitoring Report
5. Recycled Water Report
6. Pretreatment Report

ACTION The Board will be requested to receive and file the June 2021 Operations Reports as submitted.

H. Capital Improvement Program Status Report 152

ACTION Information item.

I. Capital Improvement Program Project Financial Status and Change Orders [Project Committees 2, 15, 17] 159

ACTION The Engineering Committee recommends to the PC-15 Board of Directors to Approve PCL Change Orders 25 and 26 for a total of $4,210.

5. ENGINEERING MATTERS

A. Coastal Treatment Plant Export Sludge Force Main June 10, 2021 Spill Update [Project Committee 15] 174

ACTION Information item, PC-15 Questions/Comments.

B. J.B. Latham Package B Construction Schedule Update [Project Committee 2] 178

ACTION Information item, PC-2 Questions/Comments.

6. GENERAL MANAGER'S REPORTS

A. Actuarial Valuation Report on Retiree Health Program as of December 31, 2020 181

ACTION Staff recommends that the Board receive and file the report.

B. Copier/Printer Agreement 205

ACTION Staff recommends to the Board of Directors to authorize the General Manager to negotiate an agreement on the referenced terms with MRC, A Xerox Company, for Copier and Printer Services for a five-year period.

C. Contract Award to Mariposa Landscapes Inc. for Landscaping Services 207

ACTION Staff recommends awarding a contract to Mariposa Landscapes Inc. for one (1) year, with up to four (4) annual optional renewals.

D. Small Capital Wemco 6X6 Model C Pump Purchase from Flo-Systems, Inc. for $53,821.13 (plus shipping) [Project Committee 17].....210

ACTION Staff recommends to the Board to authorize the General Manager to purchase a Wemco 6X6 Model C Pump from Flo-Systems, Inc. at the cost of $53,821.13, including additional shipping costs that will be determined at the time the units are shipped.

E. General Manager's Status Report 212

ACTION Information item.

7. CLOSED SESSION

   A. A Closed Session Conference with Legal Counsel Anticipated Litigation
      - Significant exposure to litigation pursuant to Government Code Section § 54956.9(d)(2): 1 matter

   B. Report out of Closed Session

8. OTHER MATTERS

   Open discussion or items received too late to be agendized.

   Note: 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-this are present a unanimous vote.]

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
SEPTEMBER 2, 2021

MINUTES OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

DRAFT

Board of Directors

May 20, 2021

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Budget Workshop was held on May 20, 2021, at 8:30 a.m. from their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present via Zoom Meeting:

MATT COLLINGS	Moulton Niguel Water District	Director
DAN FERONS	Santa Margarita Water District	Director
DAVID SHISSLER	City of Laguna Beach	Alternate Director
KATHRYN FRESHLEY	El Toro Water District	Director
STEPHEN DOPUDJA	Trabuco Canyon Water District	Director [arrived @ 8:45 a.m.]
PAUL COOK	Irvine Ranch Water District	Alternate Director
DAVE REBENSDORF	City of San Clemente	Director
SCOTT GOLDMAN	South Coast Water District	Director
HOWARD HART	City of San Juan Capistrano	Alternate Director

Absent:

MIKE DUNBAR	Emerald Bay Service District	Director

Staff Present:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
JASON MANNING	Director of Engineering
AMBER BAYLOR	Director of Environmental Compliance
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
DINA ASH	Human Resource Administrator
KONSTANTIN SHILKOV	Senior Accountant
ANNA SUTHERLAND	Accounts Payable
JEANETTE COTINOLA	Procurement/Contracts Administrator
MATT CLARK	IT Administrator
DANITA HIRSH	Executive Assistant

Also Present:

ADRIANA OCHOA	Procopio Law Firm
GREG MOSER	Procopio Law Firm
DENNIS CAFFERTY	El Toro Water District
JASON HAYDEN	El Toro Water District
TREVOR AGRELIUS	Moulton Niguel Water District
RICK SHINTAKU	South Coast Water District
MARC SERNA	South Coast Water District
FERNANDO PALUDI	Trabuco Canyon Water District
PAM ARENDS-KING	South Coast Water District

1. CALL TO ORDER

Chairman Collings called the meeting to order at 8:31 a.m. and requested a roll call.

For the record, the following Members are present. Director Dunbar was absent.

KATHRYN FRESHLEY	El Toro Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director, Vice-Chair
DOUG REINHART	Irvine Ranch Water District	Director
TONI ISEMAN	City of Laguna Beach	Director
DAN FERONS	Santa Margarita Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director
HOWARD HART	City of San Juan Capistrano	Alternate Director
DAVE REBENSDORF	City of San Clemente	Director

2. PLEDGE OF ALLEGIANCE – Director Stephen Dopudja

3. ORAL COMMUNICATIONS

For the purpose of transparency, Chairman Collings reported the Executive Committee met on May 10th noting he provided the Committee with several comments regarding discussions that occurred over the course of several months with Santa Margarita and Moulton's staff on the joint facilities that are shared like Plant 3A and other collection systems as well as the recycled water systems. He stated the conversations led to a lot of questions about expectations and changes anticipated going forward surrounding the JPA Agreement and how the amendments to the JPA may move forward. Chairman Collings continued by stating when the Manager's met, the discussions were about the JPA Agreement and what type of considerations could be made regarding how they would align with agencies goals and needs of SOCWA and its facilities into the future. He noted Moulton's staff is currently working on an update of the process and will be bringing them to their Board sometime mid-summer. Chairman Collings stated it is undetermined what that framework will look like, but the intention is to build off of some of the work that was done by the Adhoc task force that was formed out of the Manager's working group. He noted he requested SOCWA staff and counsel to defer the June 30th meeting that was proposed to review the JPA to early fall allowing time to go through those framework discussions, and additionally utilizing the task force of the Adhoc Committee to help inform and review some of the conversations and discussion to make sure no information is missed before presenting to the full SOCWA Board.

4. Budget Workshop – Review of Proposed SOCWA FY 2021-22 Total Operating Budget

A. Update on Finance Committee Review

B. Budget Overview & Key Assumptions Proposed Budget $22,770,568

- Operations, Maintenance, including Environmental and Safety
- Capital Programs (Small Internal and Large Capital), and Engineering Non-Capital
- Administration
- General Fund

Ms. Burnett thanked the Finance Committee for a successful process in preparation for the Budget Workshop for the coming Fiscal Year. She stated the Finance Committee followed the typical schedule in preparation of the budget, holding meetings in February, March, April, and May to review in detail several sections of the budget. Ms. Burnett stated cost drivers in the proposed FY 2021-22 budget are the environmental regulatory requirements related to renewing the two National Pollutant Discharge Elimination System (NPDES) Permits in the amount of $722,000.

Ms. Burnett noted the Finance Committee requested Staff to review the Budget numbers and try to come closer to a 5% year-over-year (YOY) budget increase. Ms. Burnett reported staff was able to reduce the O&M Budget by $926,000 to achieve a lower 4.8% overall budget increase by the following:

- Establishing a detailed timeline for completion of the required environmental permit work to locate $185 thousand in permit compliance costs to FY 2022-23
- Lab staffing costs programmed to adjust hiring dates, $116 thousand
- Utilities adjusted to run rates, $170 thousand
- Insurance costs adjustment, $63 thousand
- Training costs reduction, $25 thousand
- Delayed and reduced other O&M costs, $350 thousand

Ms. Burnett also noted that staff presented a revised approach to the Total FY 2021-22 Budget, including Administration and the General Fund to the Finance Committee on April 20, 2021, in the amount of $22,770,568, for the overall increase of $1,048,491 or 4.8% over the prior year total budget of $21,721,077. An open discussion ensued.

Ms. Burnett introduced Mary Carey, Finance Controller who gave a presentation on the Total Budget by Member Agency, followed by Jim Burror, Director of Operations, who gave a presentation on the O&M Budget, and the Co-Gen Credit, then Amber Baylor, Director of Environmental Compliance gave a presentation on the Environmental Regulatory Requirements, and final presentation was given by Jason Manning, Director of Engineering on the FY 2021-22 and 2022-23 Capital Program. An open discussion ensued.

Chairman Collings directed Board Members to forward any additional questions or comments concerning the budget to staff by May 28, 2021, to allow staff to prepare responses prior to the June 3, 2021 Board Meeting.

ADJOURNMENT

There being no further business, Director Collings adjourned the meeting at 9:53 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 Board of Directors Budget Workshop on May 20, 2021 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 REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

DRAFT

Board of Directors

June 3, 2021

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held on June 3, 2021, at 8:30 a.m. from their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present via Zoom Meeting:

MATT COLLINGS	Moulton Niguel Water District	Director
DAN FERONS	Santa Margarita Water District	Director
DAVID SHISSLER	City of Laguna Beach	Alternate Director
KATHRYN FRESHLEY	El Toro Water District	Director
MIKE DUNBAR	Emerald Bay Service District	Director
STEPHEN DOPUDJA	Trabuco Canyon Water District	Director
DOUG REINHART	Irvine Ranch Water District	Director
DAVE REBENSDORF	City of San Clemente	Director [arrived @ 8:34 a.m.]
SCOTT GOLDMAN	South Coast Water District	Director
HOWARD HART	City of San Juan Capistrano	Alternate Director [exited @ 10:30 a.m.]

Staff Present:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
JASON MANNING	Director of Engineering
AMBER BAYLOR	Director of Environmental Compliance
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
DINA ASH	Human Resource Administrator
KONSTANTIN SHILKOV	Senior Accountant
ANNA SUTHERLAND	Accounts Payable
JEANETTE COTINOLA	Procurement/Contracts Administrator
KATIE GREENWOOD	Source Control Manager
MATT CLARK	IT Administrator
DANITA HIRSH	Executive Assistant

Also Present:

ADRIANA OCHOA	Procopio Law Firm
GREG MOSER	Procopio Law Firm
DENNIS CAFFERTY	El Toro Water District
JASON HAYDEN	El Toro Water District
TREVOR AGRELIUS	Moulton Niguel Water District
DON FROELICH	Moulton Niguel Water District
RICK SHINTAKU	South Coast Water District
MARC SERNA	South Coast Water District
KAY HAVENS	El Toro Water District
FERNANDO PALUDI	Trabuco Canyon Water District
PAM ARENDS-KING	South Coast Water District
JOE McDIVITT	South Coast Water District

1. CALL TO ORDER

Vice Chair Collings called the meeting to order at 8:32 a.m. and requested a roll call.

For the record, the following Members are present. Director Rebensdorf was absent at the time of Roll Call.

KATHRYN FRESHLEY	El Toro Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director, Vice-Chair
DOUG REINHART	Irvine Ranch Water District	Director
TONI ISEMAN	City of Laguna Beach	Director
DAN FERONS	Santa Margarita Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director
HOWARD HART	City of San Juan Capistrano	Alternate Director
MIKE DUNBAR	Emerald Bay Service District	Director

2. PLEDGE OF ALLEGIANCE – Director Mike Dunbar

3. ORAL COMMUNICATIONS

None

4. CONSENT CALENDAR

ACTION TAKEN
Motion was made by Director Ferons and seconded by Director Freshley to approve the Consent Calendar noting corrections to agenda Items 4A, 4C, 4E, and 4F.

Motion carried:	Aye 10, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Dopudja	Aye
	Director Collings	Aye
	Director Reinhart	Aye
	Director Shissler	Aye
	Director Ferons	Aye
	Director Goldman	Aye
	Director Hart	Aye
	Director Rebensdorf	Aye

5. ENGINEERING MATTERS

A. Contract Amendment for the J.B. Latham Treatment Plant Package B Engineering Services during Construction [Project Committee 2]

ACTION TAKEN
Motion was made by Director Goldman and seconded by Director Collings to approve the contract amendment to Carollo in the amount of $227,617 for a total revised contract amount of $1,074,145 for the engineering services for the J.B. Latham Package B Project.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 0	
	Director Collings	Aye
	Director Ferons	Aye
	Director Goldman	Aye
	Director Hart	Aye

B. Contract Amendment for the J.B. Latham Treatment Plant Package B Construction Management Services [Project Committee 2]

This item was pulled and will be presented to the Engineering Committee in August.

C. J.B. Latham Treatment Plant Electrical System Evaluation Additional Design Services [Project Committee 2]

ACTION TAKEN
Motion was made by Director Ferons and seconded by Director Goldman to approve the contract amendment to Hazen and Sawyer in the amount of $24,390 for a total revised contract amount of $223,936 for the design services for the JB Latham Electrical System Study and Design Project.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 0	
	Director Collings	Aye
	Director Ferons	Aye
	Director Goldman	Aye
	Director Hart	Aye

D. Coastal Treatment Plant Aeration Diffuser Purchase [Project Committee 15]

ACTION TAKEN
Motion was made by Director Ferons and seconded by Director Goldman to approve the purchase of the EDI diffusers for $250,490 for the Coastal Treatment Plant Aeration Blower System Upgrades Project.

Motion carried:	Aye 3, Nay 0, Abstained 1, Absent 0	
	Director Dunbar	Aye
	Director Collings	Abstain
	Director Shissler	Aye
	Director Goldman	Aye

6. GENERAL MANAGER'S REPORTS

A. Investment Policy for Public Funds Annual Review

ACTION TAKEN
Motion was made by Director Freshley and seconded by Director Dunbar to receive and file subject report indicating there is no change to the SOCWA Investment Policy based on the annual review.

Motion carried:	Aye 10, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Dopudja	Aye
	Director Collings	Aye
	Director Reinhart	Aye
	Director Shissler	Aye
	Director Ferons	Aye
	Director Goldman	Aye
	Director Hart	Aye
	Director Rebensdorf	Aye

B. Approval of FY 2021-22 Budget

1. General Fund Budget

ACTION TAKEN
Motion was made by Director Ferons and seconded by Director Freshley to approve the General Fund Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 10, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Dopudja	Aye
	Director Collings	Aye
	Director Reinhart	Aye
	Director Shissler	Aye
	Director Ferons	Aye
	Director Goldman	Aye
	Director Hart	Aye
	Director Rebensdorf	Aye

2. Project Committee Operating Budgets

a. Approval of the FY 2021-22 Administration Budget (inclusive of project committee administration expenses, residual engineering, and IT).

ACTION TAKEN
Motion was made by Director Dunbar and seconded by Director Ferons to approve the FY 2021-22 Administration Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 9, Nay 0, Abstained 1, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Dopudja	Aye
	Director Collings	Abstain
	Director Reinhart	Aye
	Director Shissler	Aye
	Director Ferons	Aye

Director Goldman	Aye
Director Hart	Aye
Director Rebensdorf	Aye

b. Approval of the Project Committee ("PC") 2 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) as proposed and PC 2 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering, and small capital).

ACTION TAKEN
Motion was made by Director Ferons and seconded by Director Goldman to approve the Project Committee ("PC") 2 Operations and Maintenance Budget and PC 2 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 0
Director Collings	Aye
Director Ferons	Aye
Director Goldman	Aye
Director Hart	Aye

c. Approval of the Project Committee ("PC") 17 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) and PC 17 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering, and small capital).

ACTION TAKEN
Motion was made by Director Collings and seconded by Director Freshley to approve the Project Committee ("PC") 17 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) and PC 17 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering and small capital) authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 0
Director Dunbar	Aye
Director Freshley	Aye
Director Collings	Aye
Director Shissler	Aye
Director Goldman	Aye

d. Approval of the Project Committee ("PC") 15 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) and PC 15 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering, and small capital).

ACTION TAKEN
Motion was made by Director Shissler and seconded by Director Goldman to approve the Project Committee ("PC") 15 Operations and Maintenance Budget and PC 15 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of

the authorized budget requires additional Board action; the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 3, Nay 0, Abstained 1, Absent 0	
	Director Dunbar	Aye
	Director Collings	Abstain
	Director Shissler	Aye
	Director Goldman	Aye

e. Approval of the Project Committee ("PC") 5 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) and PC 5 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering).

ACTION TAKEN
Motion was made by Director Goldman and seconded by Director Collings to approve the Project Committee ("PC") 5 Operations and Maintenance Budget and PC 5 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 0	
	Director Collings	Aye
	Director Ferons	Aye
	Director Goldman	Aye
	Director Hart	Aye
	Director Rebensdorf	Aye

f. Approval of the Project Committee ("PC") 24 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) and PC 24 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering).

ACTION TAKEN
Motion was made by Director Freshley and seconded by Director Dunbar to approve the Project Committee ("PC") 24 Operations and Maintenance Budget and PC 24 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 6, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Reinhart	Aye
	Director Shissler	Aye
	Director Goldman	Aye

g. Approval of the Project Committee ("PC") 21 (ETM) Operations and Maintenance Budget, UAL and OPEB and PC 21 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering).

ACTION TAKEN
Motion was made by Director Collings and seconded by Director Freshley to approve the Project Committee ("PC") 21 (ETM) Operations and Maintenance Budget and PC 21 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 3, Nay 0, Abstained 0, Absent 0	
	Director Freshley	Aye
	Director Collings	Aye
	Director Reinhart	Aye

h. Approval of the Project Committee ("PC") 8 (Pretreatment) Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, UAL and OPEB).

ACTION TAKEN
Motion was made by Director Ferons and seconded by Director Collings to approve the Project Committee ("PC") 8 (Pretreatment) Operations and Maintenance Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 9, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Collings	Aye
	Director Reinhart	Aye
	Director Shissler	Aye
	Director Ferons	Aye
	Director Goldman	Aye
	Director Hart	Aye
	Director Rebensdorf	Aye

i. Approval of the Project Committee ("PC") 2SO (PC12) Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB).

ACTION TAKEN
Motion was made by Director Ferons and seconded by Director Collings to approve the Project Committee ("PC") 2SO (PC12) Operations and Maintenance Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action. Authorization includes the redistribution of the costs of PC 2SO (PC 12) among the member agencies to exclude El Toro Water District and Irvine Ranch Water District); the Board approved the allocation of expenses with approval of the Budget.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 0	
	Director Freshley	Aye
	Director Dopudja	Aye
	Director Collings	Aye
	Director Reinhart	Aye
	Director Ferons	Aye
	Director Goldman	Aye
	Director Hart	Aye

j. The Board directs staff to prepare and distribute a final printed budget consistent with any additional changes presented and approved at the June 3, 2021 meeting.

ACTION TAKEN
There was consensus amongst the Board of Directors to approve the preparation and distribution of a final printed budget consistent with any additional changes presented and approved at the June 3, 2021 meeting.

C. Resolution No. 2021-04: A Resolution of the Board of Directors of the South Orange County Wastewater Authority approving Employee Salary Range Summary and Employee Job Classification Salary Schedule to the July 1, 2020 to June 30, 2023 Memorandum of Understanding Between the South Orange County Wastewater Authority and the SOCWA Employee Association

D. Resolution No. 2021-05: A Resolution of the Board of Directors of the South Orange County Wastewater Authority approving New Employee Salary Range Summary and Employee Job Classification Salary Schedule to the SOCWA Employee Manual

ACTION TAKEN
Motion was made by Director Dunbar and seconded by Director Freshley to combine the approval of Resolution No. 2021-04 A Resolution of the Board of Directors of the South Orange County Wastewater Authority approving Employee Salary Range Summary and Employee Job Classification Salary Schedule to the July 1, 2020 to June 30, 2023 Memorandum of Understanding Between the South Orange County Wastewater Authority and the SOCWA Employee Association, and Resolution 2021-05 A Resolution of the Board of Directors of the South Orange County Wastewater Authority approving New Employee Salary Range Summary and Employee Job Classification Salary Schedule to the SOCWA Employee Manual.

Motion carried:	Aye 10, Nay 0, Abstained 0, Absent 0	
	Director Dunbar	Aye
	Director Freshley	Aye
	Director Dopudja	Aye
	Director Collings	Aye
	Director Reinhart	Aye
	Director Shissler	Aye
	Director Ferons	Aye
	Director Goldman	Aye
	Director Hart	Aye
	Director Rebensdorf	Aye

E. General Counsel Update, JPA Revision

Ms. Ochoa of the Procopio Law Firm gave an update to the Board on the proposed amendments to the JPA Agreement. She reported she had received different directions from different member agencies with respect to the JPA process over the past couple of months, and in light of the differences she wanted to take the opportunity to request direction from the full Board on how they would like to proceed with the next steps on moving forward. An open discussion ensued.

ACTION TAKEN
Motion was made by Director Ferons and seconded by Director Dopudja to have the Adhoc Committee give a presentation at the September Board Meeting, while Procopio Law Firm is directed to proceed with making parallel progress with the member agencies and report out at the September Board Meeting.

Motion carried: Aye 9, Nay 1, Abstained 0, Absent 0

Director Dunbar	Aye
Director Freshley	Aye
Director Dopudja	Aye
Director Collings	Aye
Director Reinhart	Nay
Director Shissler	Aye
Director Ferons	Aye
Director Goldman	Aye
Director Hart	Aye
Director Rebensdorf	Aye

The Board convened to Closed Session at 10:37 a.m.

The Board reconvened to Open Session at 10:56 a.m.

7. CLOSED SESSION

A Closed Session was held to discuss with Legal Counsel Anticipated Litigation - Significant exposure to litigation pursuant to Government Code Section § 54956.9(d)(2): 1 matter, and A Closed Session conference with General Counsel Litigation in one matter: SOCWA vs. Pac Hydro, et al., Pursuant to Government Code Section § 54956.9.

There were no reportable actions out of Closed Session.

ADJOURNMENT

There being no further business, Director Collings adjourned the meeting at 10:57 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 June 3, 2021 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

April 20, 2021

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on April 20, 2021 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 Teams Meeting:

DAN FERONS	Santa Margarita Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director
DENNIS CAFFERTY	El Toro Water District	Alternate Director
TONI ISEMAN	City of Laguna Beach	Director [arrived at 10:34 a.m.]
PAM ARENDS-KING	South Coast Water District	Alternate Director

Absent:

SERGIO FARIAS	City of San Juan Capistrano	Director

Staff Participation:

BETTY BURNETT	General Manager
AMBER BAYLOR	Director of Environmental Compliance
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
ANNA SUTHERLAND	Accounts Payable
RONI YOUNG	Associate Engineer
DINA ASH	HR Administrator
JEANETTE COTINOLA	Contracts/Procurement Administrator
MATT CLARKE	IT Administrator
DANITA HIRSH	Executive Assistant

Also Participating:

GREG MOSER	Procopio Law Firm
ADRIANA OCHOA	Procopio Law Firm
KATHRYN FRESHLEY	El Toro Water District
MIKE DUNBAR	Emerald Bay Service District
TREVOR AGRELIUS	Moulton Niguel Water District
SHERRY WANNINGER	Moulton Niguel Water District
ERICA CASTILLO	Santa Margarita Water District
GAVIN CURRAN	City of Laguna Beach
JASON HAYDEN	El Toro Water District
SCOTT GOLDMAN	South Coast Water District

1. Call Meeting to Order

Chairman Ferons called the meeting to order at 10:31 a.m.

2. Public Comments

None

3. Approval of Minutes

- Finance Committee Meeting of March 16, 2021

ACTION TAKEN
Motion was made by Director Collings and seconded by Director Arends-King to approve Finance Committee Meeting Minutes for February 16, 2021 as submitted.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1	
	Director Ferons	Aye
	Director Iseman	Aye
	Director Farias	Absent
	Director Cafferty	Aye
	Director Collings	Aye
	Director Arends-King	Aye

4. Financial Reports for the Month of March 2021

ACTION TAKEN
Motion was made by Director Collings and seconded by Director Cafferty to recommend to the Board of Directors to ratify the March 2021 disbursements for the period of March 1 through March 31, 2021, totaling $3,508,706, and to receive and file the March 2021 Financial Reports as submitted.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1	
	Director Ferons	Aye
	Director Iseman	Aye
	Director Farias	Absent
	Director Cafferty	Aye
	Director Collings	Aye
	Director Arends-King	Aye

5. Q3 FY 2020-21 Cash Roll Forward as of March 31, 2021

ACTION TAKEN
Motion was made by Director Collings and seconded by Director Arends-King to recommend to the Board of Directors to receive and file the Q3 Fiscal Year 2020-21 Cash Roll Forward as submitted

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1	
	Director Ferons	Aye
	Director Iseman	Aye
	Director Farias	Absent
	Director Cafferty	Aye
	Director Collings	Aye
	Director Arends-King	Aye

6. FY 2020-21 O&M Budget Update and Proposed Budget Amendments

ACTION TAKEN
Motion was made by Director Collings and seconded by Director Ferons to recommend to the PC 2 Board that PC 2 JBL budgets be amended by $100,000 in the following amounts:

PC-2 Line 5008	Ferric Chloride:	$50,000
PC-2 Line 5049	Biosolids:	$50,000

Motion carried: Aye 3, Nay 0, Abstained 0, Absent 1

Director Ferons	Aye
Director Farias	Absent
Director Collings	Aye
Director Arends-King	Aye

9. Independent Auditing Firm Selection – FY 2021-2022

Ms. Burnett reported for fiscal year ending June 30, 2021, the PUN Group will have completed five (5) years of financial audit services. She noted the State allows the Authority to keep the same auditing party as long as the firm rotated the audit oversight manager. Ms. Burnett stated staff works well with the PUN Group and would prefer to continue for an additional year but is fully prepared to go out to RFP based on the Committee's preference. An open discussion ensued.

Chairman Ferons recited two paragraphs from the policy that was adopted by the Board on May 3, 2018 by Resolution No. 2018-02 regarding the matter for the purpose of informing Members that are new to SOCWA. An open discussion ensued.

ACTION TAKEN
Motion was made by Director Cafferty and seconded by Director Collings to recommend to the Board of Directors to extend the PUN Group for the FY 2021-22 Audit with a rotation of the firm's Audit Managers.

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 1

Director Ferons	Aye
Director Iseman	Aye
Director Farias	Absent
Director Cafferty	Aye
Director Collings	Aye
Director Arends-King	Aye

7. FY 2021-22 Budget Update

Ms. Burnett gave an update based on feedback provided to staff at the March 16 Finance Committee meeting. She stated staff closely reviewed the regulatory requirements being that it is the key driver of about a million dollars in expenses for the coming year. Ms. Burnett stated staff gave close attention to the flow of dollars coming into the following year and some costs were moved to where they would mostly be spent which helped with bringing the initially proposed 9% budget increase down to approximately 4.8%. She also stated staff

will be going through a number of presentations in detail including addressing questions on the General Fund, information regarding PC-17, and the Co-generation Credit. Ms. Burnett stated all presentations were provided and the meeting will conclude by Mr. Manning's presentation on the Large Capital Program. An open discussion ensued.

Adjournment

Due to time constraints, Chairman Ferons adjourned the meeting of the April 20 Finance Committee at 12:40 p.m. for continuation on May 6, 2021 at 10:30 a.m. or immediately following the SOCWA Board of Directors Meeting.

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 Finance Committee of April 20, 2021, 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

MINUTES OF SPECIAL MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Finance Committee

May 6, 2021

This meeting is a continuation of the April 20, 2021 Special Finance Committee Meeting which was Adjourned to May 6, 2021

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on May 6, 2021 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 Teams Meeting:

DAN FERONS	Santa Margarita Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director
HOWARD HART	City of San Juan Capistrano	Alternate Director [arrived at 10:52 a.m.]
DENNIS CAFFERTY	El Toro Water District	Alternate Director
TONI ISEMAN	City of Laguna Beach	Director [arrived at 10:36 a.m.]

Absent:

PAM ARENDS-KING	South Coast Water District	Alternate Director

Staff Participation:

BETTY BURNETT	General Manager
AMBER BAYLOR	Director of Environmental Compliance
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
ANNA SUTHERLAND	Accounts Payable
DAVID BARANOWSKI	Sr. Engineer
RONI YOUNG	Associate Engineer
DINA ASH	HR Administrator
JEANETTE COTINOLA	Contracts/Procurement Administrator
MATT CLARKE	IT Administrator
DANITA HIRSH	Executive Assistant

Also Participating:

GREG MOSER	Procopio Law Firm
ADRIANA OCHOA	Procopio Law Firm
TRACIE STENDER	Procopio Law Firm
KATHRYN FRESHLEY	El Toro Water District
MIKE DUNBAR	Emerald Bay Service District
TREVOR AGRELIUS	Moulton Niguel Water District
SHERRY WANNINGER	Moulton Niguel Water District
ERICA CASTILLO	Santa Margarita Water District
GAVIN CURRAN	City of Laguna Beach
JASON HAYDEN	El Toro Water District
SCOTT GOLDMAN	South Coast Water District
MARC SERNA	South Coast Water District

1. Call Meeting to Order

Chairman Ferons reconvened the Finance Committee meeting from April 20, 2021 at 10:31 a.m.

2. Public Comments

None

7. FY 2021-22 Budget Update

Ms. Burnett stated staff would be continuing the budget presentation with the Environmental Regulatory Requirements starting on page 105 of the Finance Committee agenda packet from April 20. Ms. Burnett reported on the cost impacts due to the increase of NPDES Permit Renewal fees. An open discussion ensued.

Mr. Burror gave an update on the PC 17 Co-Generation current methodology used to determine the value of power produced based on market rates (SCE). He referenced the presentation on pages 119 thru 133 of the agenda packet. An open discussion ensued.

Chairman Ferons polled the Committee Members on whether to hold another Finance Committee meeting on May 18, 2020 to further discuss the FY 2021-22 proposed budget or submit the proposed budget as is to the Board Budget Workshop on May 20, 2021.

Director Collings noted for the record the inconsistencies with representation of the Administration and General Fund budgets as it relates to the JPA Agreement.

ACTION
Motion was made by Director Collings and seconded by Director Iseman to forward the proposed FY 2021-22 Operating Budget to the Board Budget Workshop on May 20, 2021 for consideration of approval and adoption.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1	
	Director Ferons	Aye
	Director Iseman	Aye
	Director Hart	Aye
	Director Cafferty	Aye
	Director Collings	Aye
	Director Arends-King	Absent

8. Proposed Large Capital Improvement Program Proposed Budget

Mr. Manning gave a presentation on the proposed CIP Budget providing a current fiscal year update on projects to date. Mr. Manning reported on the year over year comparison by member agency in the Capital Program. An open discussion ensued.

Ms. Burnett noted that based on the feedback from the Committee there will not be a Finance Committee meeting on May 18. She also noted that the Agenda for the Board Budget Workshop will reflect the recommendation from the Engineering Committee for the Capital Budget.

Adjournment

There being no further business, Chairman Ferons announced there will not be a Finance Committee on May 18, 2021, and adjourned the meeting at 11: 29 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 Finance Committee of May 6, 2021, 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

MINUTES OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Engineering Committee

April 8, 2021

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on April 8, 2021, at 8:30 a.m. via teleconferencing from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Teams Meeting:

HANNAH JOHNSON	City of Laguna Beach
MIKE MARQUIS	City of San Juan Capistrano
BOBBY YOUNG	El Toro Water District
MIKE DUNBAR	Emerald Bay Service District
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District [arrived @ 8:41 a.m.]
MARC SERNA	South Coast Water District

Absent:

DAVE REBENSDORF	City of San Clemente
KEVIN BURTON	Irvine Ranch Water District
LORRIE LAUSTEN	Trabuco Canyon Water District

Staff Present:

BETTY BURNETT	General Manager
JASON MANNING	Director of Engineering
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
JIM BURROR	Director of Operations
DANIEL VASQUEZ	Chief Maintenance Mechanic
JEANETTE COTINOLA	Procurement/Contracts Administrator
MATT CLARKE	IT Administrator
GAGE GESIRIECH	Maintenance Supervisor
DANITA HIRSH	Executive Assistant

Also Present:

BRYAN LISK	Hazen and Sawyer
ALAN MLAKAR	Hazen and Sawyer
CHRIS THUNHORST	Hazen and Sawyer
TARYN KJOLSING	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District
JESUS GARIBAY	Moulton Niguel Water District
SHERRY WANNINGER	Moulton Niguel Water District
TREVOR AGRELIUS	Moulton Niguel Water District

1. Call Meeting to Order

Mr. Manning, Director of Engineering called the meeting to order at 8:34 a.m.

2. Public Comments

None

3. Approval of Minutes

a. Engineering Committee Meeting of March 11, 2021

ACTION TAKEN
Motion was made by Mr. Dunbar seconded by Mr. Serna to approve the Engineering Committee Minutes of March 11, 2021 with noted correction to the Minutes.

Motion Carried:	Aye 6, Nay 0, Abstained 0, Absent 4	
	Hanna Johnson (CLB)	Aye
	Dave Rebensdorf (CSC)	Absent
	Mike Marquis (CSJC)	Aye
	Mike Dunbar (EBSD)	Aye
	Bobby Young (ETWD)	Aye
	Kevin Burton (IRWD)	Absent
	Rod Woods (MNWD)	Aye
	Marc Serna (SCWD)	Aye
	Don Bunts (SMWD)	Absent
	Lorrie Lausten (TCWD)	Absent

4. Operations Status Report

Mr. Burror reported on the notice from the Governor's office regarding reopening the state on June 15, 2021, stating mask mandates will continue while essential businesses remain open. Mr. Burror also stated supply of goods and services continue to be difficult due to long delays in deliverables, noting most of the forecasts should stabilize towards the end of summer or beginning of fall when supply chains get back to some form of normalcy. Mr. Burror also reported staff is reviewing and preparing budgets, noting budget updates are going to the Finance Committee meeting on the 20th, and the O&M budget at this point is under budget. An open discussion ensued.

This was an information item; no action was taken.

5. Capital Improvement Construction Projects Report

Ms. Young reported Olson is wrapping up the work at Secodary Basins 4 and 5, and is also in the process of demolition of DAFT No. 2. She stated there ae two change orders for consideration. Change Order No. 17 is for the modification to MCC-D1 due to change in motor size in DAFTs 1 and 2 in the amount of $34,392; and Change Order No. 18 is due to an additional visit to manaully verify programming and start-up of Digester 4 in the amount of $7,572. An open discussion ensued.

Mr. Manning stated there were no change orders to report on the San Juan Creek Ocean Outfall project. He stated the project is completed and he will be showing photos on the status update on Agenda Item 7.

Mr. Baranowski reported on the status of the Coastal Treatment Plant Improvements and the Export Sludge Forcemain Replacement Projects. He noted there are no change orders to report. An open discussion ensued.

Mr. Manning reported on the status of the Regional Treatment Plant Improvements Project. He stated there are nine change orders for consideration, Change Orders 21 through 29, totaling $72,585.84. He described each of the change orders. An open discussion ensued.

ACTION TAKEN
The PC 2 and PC 17 Engineering Committee members consented to forwarding change orders to the full Board for consideration of approval.

6. J.B. Latham Treatment Plant Utility Configuration Evaluation [Project Committee 2]

Ms. Young provided background information stating the scope is part of the MCC Condition Assessment and Design project that was added to explore potential cost savings and to utilize more power to the facility by combining three utility services. She also stated that based on the evaluation there is an estimated potential savings of $5-6 thousand dollars on utility bills per month. Ms. Young introduce Mr. Bryan Lisk of Hazen and Sawyer who gave a presentation on the technical aspects of the JBLTP – Electrical System Evaluation Project. An open discussion ensued.

This was an information item; no action was taken.

7. San Juan Creek Ocean Outfall Junction Structure Construction Update

Mr. Manning gave a verbal report on the San Juan Creek Ocean Outfall Junction Structure Rehabilitation Project. He provided a PowerPoint presentation of photos of the progress of the project. An open discussion ensued.

This was an information item; no action was taken.

8. J.B. Latham Treatment Plant Package B Construction Update [Project Committee 2]

Ms. Young gave a presentation on the construction status, project schedule and budget update. An open discussion ensued.

This was an information item; no action was taken.

9. SOCWA Engineering Capital Improvements Updated Draft Budget

Mr. Manning reported that there were some minor adjustments made to the budget that was present in March and will be presented to the Finance Committee on April 20. He stated once the Finance Department completes the final version of the budget, he will forward to the Engineering Committee for review prior to the Finance Committee meeting.

This was an information item; no action was taken.

Adjournment

There being no further business, Mr. Manning adjourned the meeting at 10:08 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 Engineering Committee of April 8, 2021 and approved by the Engineering 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 4D

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Financial Reports for the Month of April 2021

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:

1. Summary of Disbursements for April 2021 (Exhibit A)
2. Schedule of Funds Available for Reinvestment (Exhibit B)
   - Local Agency Investment Fund (LAIF)
3. Schedule of Cash and Investments (Exhibit C)
4. Capital Schedule (Exhibit D)
   - Capital Projects – Graph (Exhibit D-1)
5. 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

April 2021 cash disbursements were: $4,246,299.

- 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 to the Board of Directors to ratify the April 2021 disbursements for the period from April 1, 2021, through April 30, 2021, totaling $4,246,299, and to receive and file the April 2021 Financial Reports as submitted.

Exhibit A

South Orange County Wastewater Authority
Summary of Disbursements for April 2021
Staff Recommendation of Fiscal Matters

	Actual
General Fund	$ (43,602)
PC 2 - Jay B. Latham Plant	(1,372,443)
PC 5 - San Juan Creek Ocean Outfall	(339,598)
PC 8 - Pretreatment Program	(18,858)
PC 12 SO - Water Reclamation Permits	(10,937)
PC 15 - Coastal Treatment Plant/AWT	(1,666,030)
PC 17 - Joint Regional Wastewater Reclamation	(769,888)
PC 21 - Effluent Transmission Main	(16.48)
PC 24 - Aliso Creek Ocean Outfall	(24,927)
Total	**$ (4,246,299)**

Exhibit B

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of April 30, 2021

CASH IN BANK: (BEGINNING BAL.)	$	1,766,011
L.A.I.F. FUNDS: (BEGINNING BAL.)		11,141,010
DEPOSITS, TRANSFERS & ADJUSTMENTS:[1]		3,551,582
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION[2]		(4,246,299)
TOTAL CASH IN BANK	**$**	**12,212,304**

[1] Outstanding Items from prior month cleared the bank

[2] 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 05/13/21

PMIA Average Monthly Effective Yields[1]

Apr	**0.339**
Mar	0.357
Feb	0.407

Quarterly Performance Quarter Ended 03/31/21

LAIF Apportionment Rate[2]:	0.44
LAIF Earnings Ratio[2]:	0.00001214175683392
LAIF Fair Value Factor[1]:	1.001269853
PMIA Daily[1]:	0.35%
PMIA Quarter to Date[1]:	0.41%
PMIA Average Life[1]:	220

Pooled Money Investment Account Monthly Portfolio Composition [1] 04/30/21 $140.8 billion

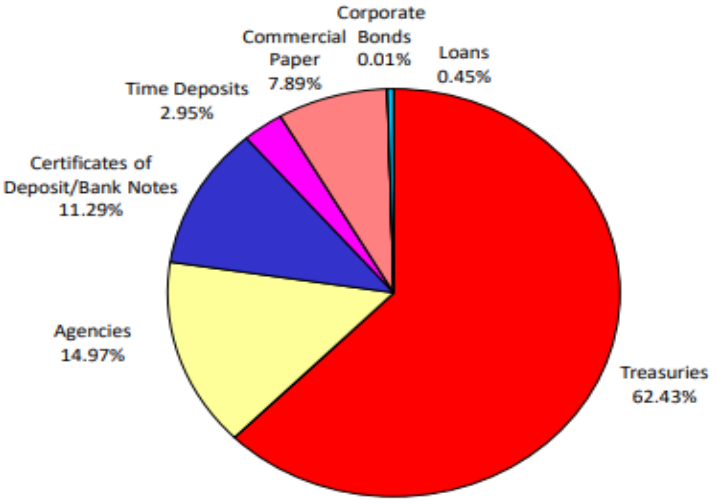


Chart does not include 0.01% of mortgages. Percentages may not total 100% due to rounding.

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).

Source:
[1] State of California, Office of the Treasurer
[2] State of Calfiornia, Office of the Controller

Exhibit C

South Orange County Wastewater Authority
Schedule of Cash and Investments
as of April 30, 2021

MVA	$	1,421,501	(A)
A/P Checking		1,295,155	(B)
Payroll Checking		75,583	(C)
State LAIF		9,420,065	(D)
Total Cash in Bank	**$**	**12,212,304**	
Petty Cash		1,600	(E)
Total Operating Cash	**$**	**12,213,904**	
OPEB Trust		6,525,637	(F)
Total Cash and Investments	**$**	**18,739,540**	

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.

Exhibit D

South Orange County Wastewater Authority
Capital Projects Summaries
For the Period Ended April 30, 2021
(in dollars)

Description	FY 2020-21 Budget vs. Actual Spending							
	Capital Budget	[1]Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Open Receivables	% Expended vs. Billed
PC 2-JB Latham	$ 11,001,875	$ 6,015,668	$ 4,986,207	54.7%	$ 6,653,978	$ 3,642,132	$ 3,011,846	90.4%
PC 5-San Juan Creek Outfall	1,263,700	1,393,072	(129,372)	110.2%	1,263,700	1,166,353	97,347	110.2%
PC 15-Coastal	9,901,134	5,902,206	3,998,928	59.6%	3,750,000	2,863,433	886,567	157.4%
PC 17-Regional	2,673,023	2,383,066	289,957	89.2%	117,111	-	117,111	-
PC 21 Effluent Transmission	2,322,668	28,111	2,294,557	1.2%	100,000	100,000	-	28.1%
[2] PC 24 Aliso Creek Outfall	-	6,254	(6,254)	0.0%	-	-	-	-
Total Large Capital	**$ 27,162,400**	**$ 15,728,376**	**$ 11,434,024**	**57.9%**	**$ 11,884,789**	**$ 7,771,918**	**$ 4,112,871**	**132.3%**
Non-Capital Engineering	1,161,634	77,362	1,084,272	6.7%	94,210	94,210		82.1%
Non-Capital Misc Engineering	75,000	1,050	73,950	1.4%	56,250	56,250		1.9%
Small Internal Capital	2,099,000	953,810	1,145,190	45.4%	2,099,000	1,711,131	387,869	45.4%
Total Capital	**$ 30,498,034**	**$ 16,760,598**	**$ 13,737,436**	**55.0%**	**$ 14,134,249**	**$ 9,633,509**	**$ 4,500,740**	**118.6%**

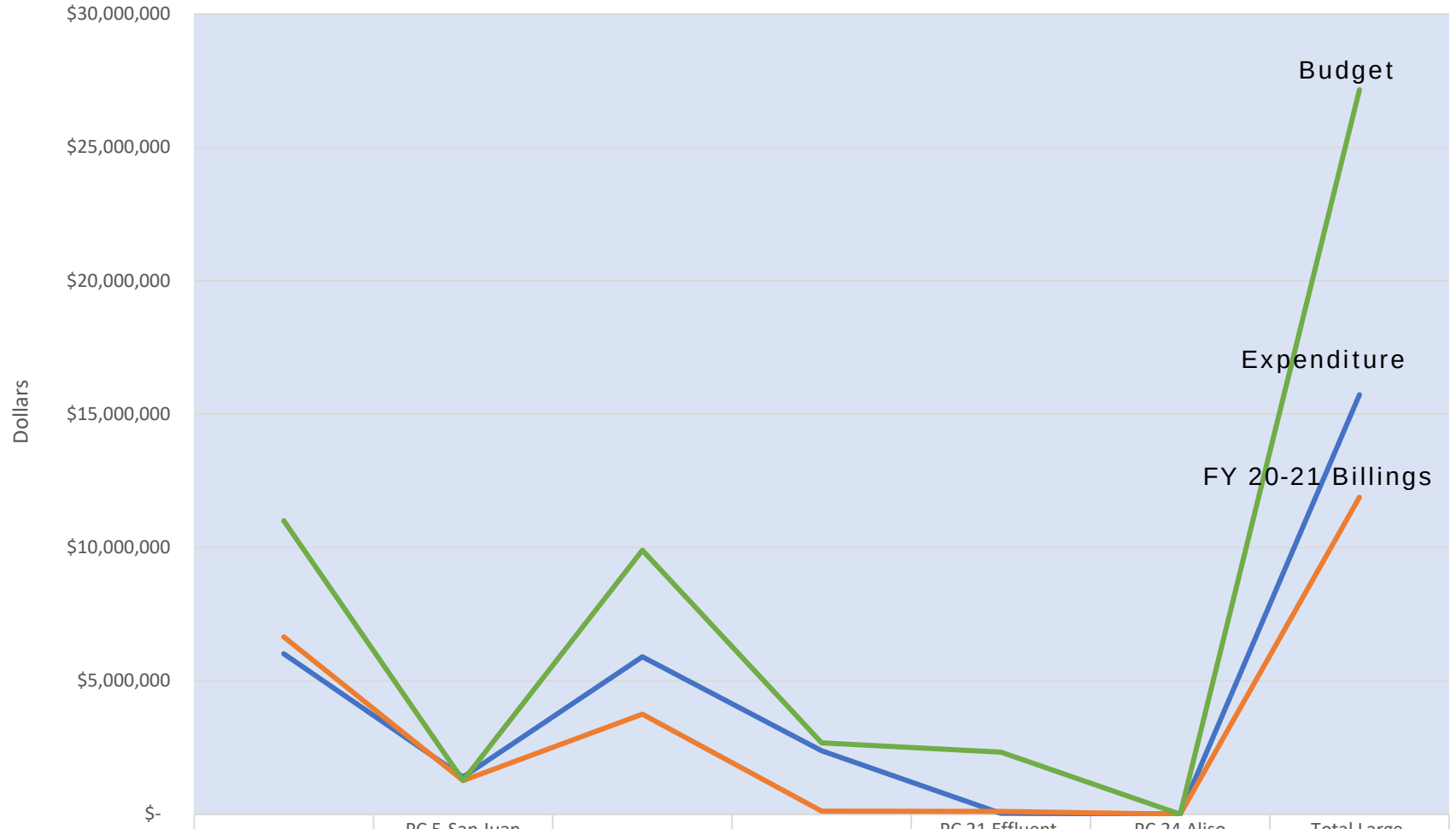
[1] Fiscal Year Spending does not include spending on carryover projects from FY 2019-20 Budget; Small Capital and Non-Capital work delayed because of COVID 19:

	Carryover	YTD Spending	Balance	% Expended
Non-Capital Engineering	$369,508	$125,156	$244,352	33.9%
Non-Capital Misc Engineering	252,298	104,192	148,106	41.3%
Small Internal Capital	565,000	383,268	181,732	67.8%
	$1,186,806	**$612,615**	**$574,191**	**51.6%**

[2] PC 24 is paid out of Cash on Hand collected in an earlier year

Large Capital Projects Fiscal Year '20-21 Budget vs. Year-to-Date Expenditures & Billings as of 4/30/2021

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 4/30/21	$6,015,668	$1,393,072	$5,902,206	$2,383,066	28,110.91	$6,254	$15,728,376
FY 20-21 Billings	$6,653,978	$1,263,700	$3,750,000	$117,111	$100,000	$0	$11,884,789
Capital Budget 20-21	$11,001,875	$1,263,700	$9,901,134	$2,673,023	$2,322,668	-	$27,162,400

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended April 30, 2021
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe						
-5000--**-**	Regular Salaries-O&M	4,510,604	3,649,342	861,262	80.9%	
-5001--**-**	Overtime Salaries-O&M	128,700	97,566	31,134	75.8%	
-5306--**-**	Scheduled Holiday Work	33,964	65,021	(31,057)	191.4%	
-5315--**-**	Comp Time - O&M	12,168	11,204	964	92.1%	
-5401--**-**	Fringe Benefits IN to PC's & Depts.	2,374,488	1,991,059	383,429	83.9%	
-5700--**-**	Standby Pay	67,608	56,680	10,928	83.8%	
	Total Payroll Costs	7,127,532	5,870,873	1,256,659	82.4%	
Other Expenses						
-5002--**-**	Electricity	1,154,008	983,275	170,733	85.2%	
-5003--**-**	Natural Gas	234,532	199,313	35,219	85.0%	
-5004--**-**	Potable & Reclaimed Water	77,008	65,722	11,286	85.3%	
-5005--**-**	Co-generation Power Credit	(669,000)	(580,408)	(88,592)	86.8%	
-5006--**-**	Chlorine/Sodium Hypochlorite	479,900	386,157	93,743	80.5%	
-5007--**-**	Polymer Products	739,004	611,470	127,534	82.7%	
-5008--**-**	Ferric Chloride	452,000	547,568	(95,568)	121.1%	(1)
-5009--**-**	Odor Control Chemicals	114,996	69,583	45,413	60.5%	
-5010--**-**	Other Chemicals - Misc.	2,996	-	2,996	-	
-5011--**-**	Laboratory Services	40,580	21,281	19,299	52.4%	
-5012--**-**	Grit Hauling	124,996	93,278	31,718	74.6%	
-5013--**-**	Landscaping	206,004	198,969	7,035	96.6%	(2)
-5015--**-**	Management Support Services	370,504	234,428	136,076	63.3%	
-5016--**-**	Audit - Environmental	1,252	-	1,252	-	
-5017--**-**	Legal Fees	32,355	62,411	(30,056)	192.9%	(3)
-5018--**-**	Public Notices/ Public Relations	5,500	-	5,500	-	
-5019--**-**	Contract Services Misc.	256,012	229,081	26,931	89.5%	
-5021--**-**	Small Vehicle Expense	24,556	15,562	8,994	63.4%	
-5022--**-**	Miscellaneous Expense	18,020	3,796	14,224	21.1%	
-5023--**-**	Office Supplies - All	43,004	22,425	20,579	52.1%	
-5024--**-**	Petroleum Products	34,000	12,060	21,940	35.5%	
-5025--**-**	Uniforms	68,992	53,603	15,389	77.7%	
-5026--**-**	Small Vehicle Fuel	24,604	10,523	14,081	42.8%	
-5027--**-**	Insurance - Property/Liability	275,584	221,898	53,686	80.5%	
-5028--**-**	Small Tools & Supplies	77,500	62,904	14,596	81.2%	
-5030--**-**	Trash Disposal	6,992	5,355	1,637	76.6%	
-5031--**-**	Safety Program & Supplies	114,868	108,142	6,726	94.1%	
-5032--**-**	Equipment Rental	7,004	876	6,128	12.5%	
-5033--**-**	Recruitment	2,504	1,389	1,115	55.5%	
-5034--**-**	Travel Expense/Tech. Conferences	32,316	1,795	30,521	5.6%	
-5035--**-**	Training Expense	40,664	11,247	29,417	27.7%	
-5036--**-**	Laboratory Supplies	100,152	118,841	(18,689)	118.7%	
-5037--**-**	Office Equipment	65,000	25,256	39,744	38.9%	
-5038--**-**	Permits	480,520	502,013	(21,493)	104.5%	(4)
-5039--**-**	Membership Dues/Fees	23,772	7,839	15,933	33.0%	
-5044--**-**	Offshore Monitoring	44,004	24,030	19,974	54.6%	
-5046--**-**	Effluent Chemistry	40,004	61,777	(21,773)	154.4%	(5)
-5047--**-**	Access Road Expenses	44,004	38,887	5,117	88.4%	
-5048--**-**	Storm Damage	20,008	-	20,008	-	
-5049--**-**	Biosolids Disposal	1,429,996	1,208,009	221,987	84.5%	
-5050--**-**	Contract Services Generators - 29A	22,008	50	21,958	0.2%	
-5051--**-**	Contract Serv - Metering Station - 29B	-	2,767	(2,767)	-	
-5052--**-**	Janitorial Services	94,004	87,695	6,309	93.3%	(6)
-5053--**-**	Contract Serv - Digester Cleaning - 29E	125,000	24,009	100,991	19.2%	
-5054--**-**	Diesel Truck Maint	41,004	24,182	16,822	59.0%	
-5055--**-**	Diesel Truck Fuel - 37B	11,504	5,325	6,179	46.3%	
-5056--**-**	Maintenance Equip. & Facilities (Solids)	361,000	253,726	107,274	70.3%	
-5057--**-**	Maintenance Equip. & Facilities (Liquids)	669,000	469,490	199,510	70.2%	
-5058--**-**	Maintenance Equip. & Facilities (Common)	86,008	135,751	(49,743)	157.8%	(7)
-5059--**-**	Maintenance Equip. & Facilities (Co-Gen)	960,000	531,766	428,234	55.4%	
-5060--**-**	Maintenance Equip. & Facilities (AWT)	75,000	67,868	7,132	90.5%	
-5061--**-**	Mileage	3,548	1,537	2,011	43.3%	
-5067--**-**	Port Cleaning	70,000	-	70,000	-	
-5068--**-**	MNWD Potable Water Supplies & Svcs.	42,000	16,903	25,097	40.2%	
-5076--**-**	SCADA Infrastructure	91,508	51,861	39,647	56.7%	
-5077--**-**	IT Direct	10,000	-	10,000	-	
-5105--**-**	Co-Generation Power Credit - Offset	669,000	580,408	88,592	86.8%	
-5303--**-**	Group Insurance Waiver	14,392	11,797	2,595	82.0%	
-5305--**-**	Medicare Tax Payments for Employees	1,336	1,614	(278)	120.8%	
-5309--**-**	Operating Leases	31,008	23,333	7,675	75.2%	
-5705--**-**	Monthly Car Allowance	31,192	29,682	1,510	95.2%	
-5799--**-**	Zephyr Wall Costs Share - O&M	(14,000)	(10,959)	(3,041)	78.3%	
-5802--**-**	Shipping/Freight	100	-	100	-	
-6241--**-**	Education Reimbursement	-	606	(606)	-	
-6500--**-**	IT Allocations in to PC's & Depts.	556,996	451,522	105,474	81.1%	
	Total Other Expenses	10,592,323	8,401,723	2,190,600	79.3%	
	Total O&M Expenses	**17,719,855**	**14,272,596**	**3,447,259**	**80.5%**	

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended April 30, 2021
(in dollars)

* 05/06/2021 Board approved budget amendment ($100,000)

(1) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.

(2) Tree removals from emergency projects and Santa Ana Winds have been elevated this year.

(3) Regulatory Environmental requirements and Construction agreements review.

(4) Water Quality Fee increases.

(5) Increased toxicity monitoring due to permit exceedances and Investigative Order requirements.

(6) Janitorial services are elevated due to additional office disinfection and cleaning.

(7) Emergency water line repairs completed at RTP.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended April 30, 2021
(in dollars)

		FY 2020-21 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	1,518,048		1,518,048	1,295,846	222,202	85.4%	
02-5001-**-**-**	Overtime Salaries-O&M	38,716		38,716	38,085	631	98.4%	(1)
02-5306-**-**-**	Scheduled Holiday Work	13,364		13,364	24,677	(11,313)	184.7%	(1)
02-5315-**-**-**	Comp Time - O&M	5,028		5,028	4,918	110	97.8%	(1)
02-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	799,132		799,132	707,006	92,126	88.5%	
02-5700-**-**-**	Standby Pay	25,352		25,352	22,880	2,472	90.2%	
	Total Payroll Costs	2,399,640	-	2,399,640	2,093,412	306,228	87.2%	
Other Expenses								
02-5002-**-**-**	Electricity	547,004		547,004	381,659	165,345	69.8%	
02-5003-**-**-**	Natural Gas	121,036		121,036	102,159	18,877	84.4%	
02-5004-**-**-**	Potable & Reclaimed Water	24,004		24,004	20,123	3,881	83.8%	
02-5006-**-**-**	Chlorine/Sodium Hypochlorite	7,900		7,900	6,592	1,308	83.4%	
02-5007-**-**-**	Polymer Products	278,000		278,000	253,520	24,480	91.2%	
02-5008-**-**-**	Ferric Chloride	140,000	50,000	190,000	213,539	(23,539)	112.4%	(2)
02-5009-**-**-**	Odor Control Chemicals	21,000		21,000	14,711	6,289	70.1%	
02-5010-**-**-**	Other Chemicals - Misc.	1,000		1,000	-	1,000	-	
02-5011-**-**-**	Laboratory Services	12,500		12,500	5,532	6,968	44.3%	
02-5012-**-**-**	Grit Hauling	54,000		54,000	39,791	14,209	73.7%	
02-5013-**-**-**	Landscaping	75,008		75,008	47,640	27,368	63.5%	
02-5015-**-**-**	Management Support Services	26,004		26,004	37,007	(11,003)	142.3%	(3)
02-5017-**-**-**	Legal Fees	3,095		3,095	4,141	(1,046)	133.8%	
02-5019-**-**-**	Contract Services Misc.	75,008		75,008	62,516	12,492	83.3%	
02-5021-**-**-**	Small Vehicle Expense	11,000		11,000	6,362	4,638	57.8%	
02-5022-**-**-**	Miscellaneous Expense	8,000		8,000	2,341	5,659	29.3%	
02-5023-**-**-**	Office Supplies - All	28,000		28,000	9,759	18,241	34.9%	
02-5024-**-**-**	Petroleum Products	11,000		11,000	2,724	8,276	24.8%	
02-5025-**-**-**	Uniforms	32,992		32,992	26,077	6,915	79.0%	
02-5026-**-**-**	Small Vehicle Fuel	12,004		12,004	3,069	8,935	25.6%	
02-5027-**-**-**	Insurance - Property/Liability	89,920		89,920	75,115	14,805	83.5%	
02-5028-**-**-**	Small Tools & Supplies	37,004		37,004	29,241	7,763	79.0%	
02-5030-**-**-**	Trash Disposal	2,000		2,000	1,870	130	93.5%	
02-5031-**-**-**	Safety Program & Supplies	39,004		39,004	41,698	(2,694)	106.9%	
02-5032-**-**-**	Equipment Rental	3,000		3,000	876	2,124	29.2%	
02-5033-**-**-**	Recruitment	1,000		1,000	944	56	94.4%	
02-5034-**-**-**	Travel Expense/Tech. Conferences	9,496		9,496	115	9,381	1.2%	
02-5035-**-**-**	Training Expense	12,808		12,808	2,957	9,851	23.1%	
02-5036-**-**-**	Laboratory Supplies	16,472		16,472	11,142	5,330	67.6%	
02-5037-**-**-**	Office Equipment	13,000		13,000	1,621	11,379	12.5%	
02-5038-**-**-**	Permits	25,504		25,504	38,809	(13,305)	152.2%	(4)
02-5039-**-**-**	Membership Dues/Fees	4,384		4,384	2,819	1,565	64.3%	
02-5049-**-**-**	Biosolids Disposal	524,996	50,000	574,996	432,809	142,187	75.3%	
02-5050-**-**-**	Contract Services Generators - 29A	10,004		10,004	50	9,954	0.00	
02-5052-**-**-**	Janitorial Services	41,000		41,000	45,376	(4,376)	110.7%	(5)
02-5053-**-**-**	Contract Serv - Digester Cleaning - 29E	60,000		60,000	24,009	35,991	40.0%	
02-5054-**-**-**	Diesel Truck Maint	21,000		21,000	5,875	15,125	28.0%	
02-5055-**-**-**	Diesel Truck Fuel - 37B	3,004		3,004	1,546	1,458	51.5%	
02-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	155,000		155,000	93,414	61,586	60.3%	
02-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	254,000		254,000	156,477	97,523	61.6%	
02-5058-**-**-**	Maintenance Equip. & Facilities (Common)	28,000		28,000	37,280	(9,280)	133.1%	
02-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	369,000		369,000	211,423	157,577	57.3%	
02-5061-**-**-**	Mileage	2,044		2,044	589	1,455	28.8%	
02-5076-**-**-**	SCADA Infrastructure	30,504		30,504	17,287	13,217	56.7%	
02-5077-**-**-**	IT Direct	4,996		4,996	-	4,996	-	
02-5303-**-**-**	Group Insurance Waiver	3,592		3,592	3,018	574	84.0%	
02-5309-**-**-**	Operating Leases	25,004		25,004	20,935	4,069	83.7%	
02-5705-**-**-**	Monthly Car Allowance	18,600		18,600	19,117	(517)	102.8%	
02-5799-**-**-**	Zephyr Wall Costs Share - O&M	(14,000)		(14,000)	(10,959)	(3,041)	78.3%	
02-6500-**-**-**	IT Allocations in to PC's & Depts.	187,624		187,624	152,099	35,525	81.1%	
	Total Other Expenses	3,466,515	100,000	3,566,515	2,656,960	909,555	74.5%	
	Total Expenses	5,866,155	100,000	5,966,155	4,750,372	1,215,783	79.6%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended April 30, 2021
(in dollars)

		FY 2020-21 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	94,880		94,880	107,399	(12,519)	113.2%	
05-5001-**-**-**	Overtime Salaries-O&M	584		584	1,525	(941)	261.1%	(1)
05-5306-**-**-**	Scheduled Holiday Work	100		100	468	(368)	-	
05-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	49,940		49,940	58,596	(8,656)	117.3%	
	Total Payroll Costs	145,504	-	145,504	167,988	(22,484)	115.5%	
Other Expenses								
05-5002-**-**-**	Electricity	1,004		1,004	-	1,004	-	
05-5003-**-**-**	Natural Gas	500		500	-	500	-	
05-5015-**-**-**	Management Support Services	80,000		80,000	39,308	40,692	49.1%	
05-5017-**-**-**	Legal Fees	2,008		2,008	1,351	658	67.3%	
05-5026-**-**-**	Small Vehicle Fuel	500		500	-	500	-	
05-5027-**-**-**	Insurance - Property/Liability	8,192		8,192	6,476	1,716	79.1%	
05-5031-**-**-**	Safety Supplies	1,004		1,004	-	1,004	-	
05-5034-**-**-**	Travel Expense/Tech. Conferences	2,000		2,000	300	1,700	15.0%	
05-5035-**-**-**	Training Expense	4,000		4,000	62	3,938	1.5%	
05-5036-**-**-**	Laboratory Supplies	24,504		24,504	41,791	(17,287)	170.5%	(15)
05-5038-**-**-**	Permits	198,996		198,996	210,586	(11,590)	105.8%	(4)
05-5039-**-**-**	Membership Dues/Fees	5,564		5,564	-	5,564	-	
05-5044-**-**-**	Offshore Monitoring	22,000		22,000	12,015	9,985	54.6%	
05-5046-**-**-**	Effluent Chemistry	20,004		20,004	27,521	(7,517)	137.6%	(6)
05-5056-**-**-**	Maintenance Equip. & Facilities (Solids) 41-A	-		-	552	(552)	-	
05-5058-**-**-**	Maintenance Equip. & Facilities (Common)	1,004		1,004	-	1,004	-	
05-5067-**-**-**	Port Cleaning	35,000		35,000	-	35,000	-	
05-6500-**-**-**	IT Allocations in to PC's & Depts.	11,716		11,716	9,498	2,218	81.1%	
	Total Other Expenses	417,996	-	417,996	349,459	68,537	83.6%	
	Total Expenses	563,500	-	563,500	517,447	46,053	91.8%	
08 - Pre Treatment								
Salary and Fringe								
08-5000-**-**-**	Regular Salaries-O&M	81,396		81,396	81,524	(128)	100.2%	
08-5306-**-**-**	Scheduled Holiday Work	356		356	-	356		
08-5315-**-**-**	Comp Time - Environment	2,476		2,476	-	2,476	-	
08-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	42,852		42,852	44,479	(1,627)	103.8%	
	Total Payroll Costs	127,080	-	127,080	126,003	1,078	99.2%	
Other Expenses								
08-5011-**-**-**	Laboratory Services	3,008		3,008	228	2,781	7.6%	
08-5015-**-**-**	Management Support Services	4,000		4,000	-	4,000	-	
08-5016-**-**-**	Audit - Environmental	1,252		1,252	-	1,252	-	
08-5017-**-**-**	Legal Fees	2,532		2,532	3,244	(712)	128.1%	(7)
08-5018-**-**-**	Public Notices/ Public Relations	5,500		5,500	-	5,500	-	
08-5021-**-**-**	Small Vehicle Expense - 31A	1,052		1,052	36	1,016	0.03	
08-5022-**-**-**	Miscellaneous Expense	2,020		2,020	-	2,020	-	
08-5026-**-**-**	Small Vehicle Fuel - 37A	1,096		1,096	97	999	8.9%	
08-5027-**-**-**	Insurance - Property/Liability	2,844		2,844	2,248	596	79.1%	
08-5028-**-**-**	Small Tools & Supplies	3,496		3,496	1,180	2,316	33.7%	
08-5034-**-**-**	Travel Expense/Tech. Conferences	2,220		2,220	300	1,920	13.5%	
08-5035-**-**-**	Training Expense	796		796	509	287	64.0%	
08-5038-**-**-**	Permits and Fines	6,000		6,000	-	6,000	-	
08-5039-**-**-**	Membership Dues/Fees	800		800	743	57	92.9%	
08-6500-**-**-**	IT Allocations in to PC's & Depts.	10,052		10,052	8,148	1,904	81.1%	
	Total Other Expenses	46,668	-	46,668	16,733	29,935	35.9%	
	Total Expenses	173,748	-	173,748	142,736	31,012	82.2%	
12 - Water Reclamation Permits								
Salary and Fringe								
12-5000-**-**-**	Regular Salaries-O&M	50,404		50,404	35,462	14,942	70.4%	
12-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	26,528		26,528	19,348	7,180	72.9%	
	Total Payroll Costs	76,932	-	76,932	54,810	22,122	71.2%	
Other Expenses								
12-5015-**-**-**	Management Support Services	157,000		157,000	88,089	68,911	56.1%	
12-5017-**-**-**	Legal Fees	2,008		2,008	9,499	(7,491)	473.1%	(7)
12-5027-**-**-**	Insurance - Property/Liability	3,116		3,116	2,463	653	79.1%	
12-5034-**-**-**	Travel Expense/Tech. Conferences	1,352		1,352	-	1,352	-	
12-5038-**-**-**	Permits	21,512		21,512	20,362	1,150	94.7%	
12-6500-**-**-**	IT Allocations in to PC's & Depts.	6,236		6,236	5,046	1,190	80.9%	
	Total Other Expenses	191,224	-	191,224	125,459	65,765	65.6%	
	Total Expenses	268,156	-	268,156	180,269	87,887	67.2%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended April 30, 2021
(in dollars)

		FY 2020-21 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
15 - Coastal Treatment Plant								
Salary and Fringe								
15-5000-**-**-**	Regular Salaries-O&M	939,512		939,512	719,646	219,866	76.6%	
15-5001-**-**-**	Overtime Salaries-O&M	21,760		21,760	15,917	5,843	73.1%	(1)
15-5306-**-**-**	Scheduled Holiday Work	5,096		5,096	12,270	(7,174)	240.8%	(1)
15-5315-**-**-**	Comp Time - O&M	2,100		2,100	2,649	(549)	126.1%	(1)
15-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	494,584		494,584	392,635	101,949	79.4%	
15-5700-**-**-**	Standby Pay	16,900		16,900	9,620	7,280	56.9%	
	Total Payroll Costs	1,479,952	-	1,479,952	1,152,737	327,215	77.9%	
Other Expenses								
15-5002-**-**-**	Electricity	256,000		256,000	215,433	40,567	84.2%	
15-5003-**-**-**	Natural Gas	3,000		3,000	2,674	326	89.1%	
15-5004-**-**-**	Potable & Reclaimed Water	25,004		25,004	18,858	6,146	75.4%	
15-5006-**-**-**	Chlorine/Sodium Hypochlorite	92,000		92,000	66,011	25,989	71.8%	
15-5007-**-**-**	Polymer Products	1,004		1,004	-	1,004	-	
15-5008-**-**-**	Ferric Chloride	46,996		46,996	48,357	(1,361)	102.9%	(2)
15-5009-**-**-**	Odor Control Chemicals	50,000		50,000	30,319	19,681	60.6%	
15-5011-**-**-**	Laboratory Services	8,000		8,000	7,790	210	97.4%	(8)
15-5012-**-**-**	Grit Hauling	20,996		20,996	20,659	337	98.4%	
15-5013-**-**-**	Landscaping	56,000		56,000	26,015	29,985	46.5%	
15-5015-**-**-**	Management Support Services	2,500		2,500	3,198	(698)	127.9%	(3)
15-5017-**-**-**	Legal Fees	15,700		15,700	3,384	12,316	21.6%	
15-5019-**-**-**	Contract Services Misc.	85,000		85,000	80,504	4,496	94.7%	
15-5021-**-**-**	Small Vehicle Expense - 31A	5,504		5,504	3,168	2,336	57.6%	
15-5022-**-**-**	Miscellaneous Expense	1,000		1,000	388	612	38.8%	
15-5023-**-**-**	Office Supplies - All	4,004		4,004	4,146	(142)	103.5%	
15-5024-**-**-**	Petroleum Products	3,000		3,000	3,264	(264)	108.8%	(9)
15-5025-**-**-**	Uniforms	8,996		8,996	6,093	2,903	67.7%	
15-5026-**-**-**	Small Vehicle Fuel - 37A	2,000		2,000	1,478	522	73.9%	
15-5027-**-**-**	Insurance - Property/Liability	46,396		46,396	36,680	9,716	79.1%	
15-5028-**-**-**	Small Tools & Supplies	8,000		8,000	7,185	815	89.8%	
15-5030-**-**-**	Trash Disposal	2,996		2,996	1,576	1,420	52.6%	
15-5031-**-**-**	Safety Program & Supplies	33,352		33,352	22,622	10,730	67.8%	
15-5032-**-**-**	Equipment Rental	1,000		1,000	-	1,000	-	
15-5033-**-**-**	Recruitment	500		500	150	350	29.9%	
15-5034-**-**-**	Travel Expense/Tech. Conferences	5,748		5,748	148	5,600	2.6%	
15-5035-**-**-**	Training Expense	8,356		8,356	4,298	4,058	51.4%	
15-5036-**-**-**	Laboratory Supplies	11,004		11,004	11,698	(694)	106.3%	
15-5037-**-**-**	Office Equipment	2,000		2,000	10	1,990	0.5%	
15-5038-**-**-**	Permits	8,000		8,000	4,574	3,426	57.2%	
15-5039-**-**-**	Membership Dues/Fees	2,600		2,600	1,424	1,176	54.8%	
15-5047-**-**-**	Access Road Expenses	44,004		44,004	38,887	5,117	88.4%	
15-5048-**-**-**	Storm Damage	20,008		20,008	-	20,008	-	
15-5049-**-**-**	Biosolids Disposal	-		-	5,625	(5,625)	-	
15-5050-**-**-**	Contract Services Generators - 29A	4,004		4,004	-	4,004	-	
15-5052-**-**-**	Janitorial Services	12,004		12,004	10,547	1,457	87.9%	
15-5054-**-**-**	Diesel Truck Maint - 31B	1,004		1,004	4,597	(3,593)	4.58	
15-5055-**-**-**	Diesel Truck Fuel - 37B	496		496	-	496	-	
15-5056-01-00-00	Maintenance Equip. & Facilities (Solids) 41-A				-	-		
15-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	179,000		179,000	109,458	69,542	61.1%	
15-5058-**-**-**	Maintenance Equip. & Facilities (Common)	22,000		22,000	6,390	15,610	29.0%	
15-5060-**-**-**	Maintenance Equip. & Facilities (AWT) 41-E	37,000		37,000	15,620	21,380	42.2%	
15-5061-**-**-**	Mileage	500		500	154	346	30.8%	
15-5076-**-**-**	SCADA Infrastructure	30,500		30,500	17,287	13,213	56.7%	
15-5303-**-**-**	Group Insurance Waiver	3,600		3,600	3,018	582	83.8%	
15-5305-**-**-**	Medicare Tax Payments for Employees	1,336		1,336	1,614	(278)	120.8%	
15-5705-**-**-**	Monthly Car Allowance	4,204		4,204	3,522	682	83.8%	
15-6500-**-**-**	IT Allocations in to PC's & Depts.	116,012		116,012	94,047	21,965	81.1%	
	Total Other Expenses	1,292,328	-	1,292,328	943,012	349,316	73.0%	
	Total Expenses	2,772,280	-	2,772,280	2,095,749	676,531	75.6%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended April 30, 2021
(in dollars)

		FY 2020-21 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	1,721,896		1,721,896	1,306,330	415,566	75.9%	
17-5001-**-**-**	Overtime Salaries-O&M	66,064		66,064	40,807	25,257	61.8%	(1)
17-5306-**-**-**	Scheduled Holiday Work	14,880		14,880	27,313	(12,433)	183.6%	(1)
17-5315-**-**-**	Comp Time - O&M	2,564		2,564	3,638	(1,074)	141.9%	(1)
17-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	906,456		906,456	712,726	193,730	78.6%	
17-5700-**-**-**	Standby Pay	25,356		25,356	24,180	1,176	95.4%	
	Total Payroll Costs	2,737,216	-	2,737,216	2,114,995	622,221	77.3%	
Other Expenses								
17-5002-**-**-**	Electricity	350,000		350,000	386,183	(36,183)	110.3%	(10)
17-5003-**-**-**	Natural Gas	109,996		109,996	94,480	15,516	85.9%	
17-5004-**-**-**	Potable & Reclaimed Water	28,000		28,000	26,741	1,259	95.5%	
17-5005-**-**-**	Co-generation Power Credit	(669,000)		(669,000)	(580,408)	(88,592)	86.8%	
17-5006-**-**-**	Chlorine/Sodium Hypochlorite	380,000		380,000	313,553	66,447	82.5%	
17-5007-**-**-**	Polymer Products	460,000		460,000	357,950	102,050	77.8%	
17-5008-**-**-**	Ferric Chloride	265,004		265,004	285,672	(20,668)	107.8%	(2)
17-5009-**-**-**	Odor Control Chemicals	43,996		43,996	24,554	19,442	55.8%	
17-5010-**-**-**	Other Chemicals - Misc.	1,996		1,996	-	1,996	-	
17-5011-**-**-**	Laboratory Services	17,072		17,072	7,732	9,340	45.3%	
17-5012-**-**-**	Grit Hauling - 21A	50,000		50,000	32,828	17,172	65.7%	
17-5013-**-**-**	Landscaping	74,996		74,996	125,315	(50,319)	167.1%	(11)
17-5015-**-**-**	Management Support Services	21,000		21,000	31,389	(10,389)	149.5%	(3)
17-5017-**-**-**	Legal Fees	5,004		5,004	13,281	(8,277)	265.4%	(12)
17-5019-**-**-**	Contract Services Misc.	95,000		95,000	86,061	8,939	90.6%	
17-5021-**-**-**	Small Vehicle Expense	7,000		7,000	5,996	1,004	85.7%	
17-5022-**-**-**	Miscellaneous Expense	7,000		7,000	1,067	5,933	15.2%	
17-5023-**-**-**	Office Supplies - All	11,000		11,000	8,519	2,481	77.4%	
17-5024-**-**-**	Petroleum Products	20,000		20,000	6,072	13,928	30.4%	
17-5025-**-**-**	Uniforms	27,004		27,004	21,433	5,571	79.4%	
17-5026-**-**-**	Small Vehicle Fuel	9,004		9,004	5,880	3,124	65.3%	
17-5027-**-**-**	Insurance - Property/Liability	115,592		115,592	91,385	24,207	79.1%	
17-5028-**-**-**	Small Tools & Supplies	29,000		29,000	25,299	3,701	87.2%	
17-5030-**-**-**	Trash Disposal	1,996		1,996	1,909	87	95.7%	
17-5031-**-**-**	Safety Program & Supplies	40,504		40,504	43,822	(3,318)	108.2%	
17-5032-**-**-**	Equipment Rental	3,004		3,004	-	3,004	-	
17-5033-**-**-**	Recruitment	1,004		1,004	295	709	29.3%	
17-5034-**-**-**	Travel Expense/Tech. Conferences	9,496		9,496	632	8,864	6.7%	
17-5035-**-**-**	Training Expense	12,700		12,700	3,359	9,341	26.4%	
17-5036-**-**-**	Laboratory Supplies	23,672		23,672	13,609	10,063	57.5%	
17-5037-**-**-**	Office Equipment	50,000		50,000	23,626	26,374	47.3%	
17-5038-**-**-**	Permits	21,508		21,508	27,289	(5,781)	126.9%	
17-5039-**-**-**	Membership Dues/Fees	4,860		4,860	2,852	2,008	58.7%	
17-5049-**-**-**	Biosolids Disposal	905,000		905,000	769,575	135,425	85.0%	
17-5050-**-**-**	Contract Services Generators - 29A	8,000		8,000	-	8,000	-	
17-5051-**-**-**	Contract Serv - Metering Station - 29B				2,767	(2,767)	-	
17-5052-**-**-**	Janitorial Services	41,000		41,000	31,771	9,229	77.5%	
17-5053-**-**-**	Contract Serv - Digester Cleaning - 29E	65,000		65,000	-	65,000	-	
17-5054-**-**-**	Diesel Truck Maint	19,000		19,000	13,710	5,290	72.2%	
17-5055-**-**-**	Diesel Truck Fuel - 37B	8,004		8,004	3,779	4,225	47.2%	
17-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	206,000		206,000	159,760	46,240	77.6%	
17-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	236,000		236,000	203,555	32,445	86.3%	
17-5058-**-**-**	Maintenance Equip. & Facilities (Common)	34,000		34,000	92,081	(58,081)	270.8%	(13)
17-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	591,000		591,000	320,344	270,656	54.2%	
17-5060-**-**-**	Maintenance Equip. & Facilities (AWT)	38,000		38,000	52,248	(14,248)	137.5%	(14)
17-5061-**-**-**	Mileage	1,004		1,004	795	209	79.1%	
17-5068-**-**-**	MNWD Potable Water Supplies & Svcs.	42,000		42,000	16,903	25,097	40.2%	
17-5076-**-**-**	SCADA Infrastructure	30,504		30,504	17,288	13,217	56.7%	
17-5077-**-**-**	IT Direct	5,004		5,004	-	5,004	-	
17-5105-**-**-**	Co-Generation Power Credit - Offset	669,000		669,000	580,408	88,592	86.8%	
17-5303-**-**-**	Group Insurance Waiver	7,200		7,200	5,760	1,440	80.0%	
17-5309-**-**-**	Operating Leases	6,004		6,004	2,398	3,606	0.40	
17-5705-**-**-**	Monthly Car Allowance	8,388		8,388	7,043	1,345	84.0%	
17-6241-**-**-**	Education Reimbursement	-		-	606	(606)	-	
17-6500-**-**-**	IT Allocations in to PC's & Depts.	212,628		212,628	172,365	40,263	81.1%	
	Total Other Expenses	4,760,144	-	4,760,144	3,941,675	818,469	82.8%	
	Total Expenses	7,497,360	-	7,497,360	6,056,670	1,440,690	80.8%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended April 30, 2021
(in dollars)

		FY 2020-21 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
21 - Effluent Transmission Main								
Salary and Fringe								
21-5000-**-**-**	Regular Salaries-O&M	1,384		1,384	792	592	57.2%	
21-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	732		732	432	300	59.0%	
	Total Payroll Costs	2,116	-	2,116	1,224	892	57.9%	
Other Expenses								
21-5019-**-**-**	Contract Services Misc. - 29	1,004		1,004	-	1,004	-	
21-5027-**-**-**	Insurance - Property/Liability	968		968	765	203	79.1%	
	Total Other Expenses	1,972	-	1,972	765	1,207	38.8%	
	Total Expenses	4,088	-	4,088	1,990	2,098	48.7%	
23 - North Coast Interceptor								
Other Expenses								
23-5017-**-**-**	Legal Fees	-			27,512	(27,512)	-	
	Total Other Expenses	-	-	-	27,512	(27,512)	-	
24 - Aliso Creek Ocean Outfall								
Salary and Fringe								
24-5000-**-**-**	Regular Salaries-O&M	103,084		103,084	102,343	741	99.3%	
24-5001-**-**-**	Overtime Salaries-O&M	1,576		1,576	1,232	344	78.2%	
24-5306-**-**-**	Scheduled Holiday Work	168		168	292	(124)	174.1%	(1)
24-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	54,264		54,264	55,837	(1,573)	102.9%	
	Total Payroll Costs	159,092	-	159,092	159,705	(613)	100.4%	
Other Expenses				-				
24-5015-**-**-**	Management Support Services	80,000		80,000	35,437	44,563	44.3%	
24-5017-**-**-**	Legal Fees	2,008		2,008	-	2,008	-	
24-5027-**-**-**	Insurance - Property/Liability	8,556		8,556	6,764	1,792	79.1%	
24-5031-**-**-**	Safety Supplies	1,004		1,004	-	1,004	-	
24-5034-**-**-**	Travel Expense/Tech. Conferences	2,004		2,004	300	1,704	15.0%	
24-5035-**-**-**	Training Expense	2,004		2,004	62	1,942	3.1%	
24-5036-**-**-**	Laboratory Supplies	24,500		24,500	40,600	(16,100)	165.7%	(15)
24-5038-**-**-**	Permits	199,000		199,000	200,393	(1,393)	100.7%	(4)
24-5039-**-**-**	Membership Dues/Fees	5,564		5,564	-	5,564	-	
24-5044-**-**-**	Offshore Monitoring	22,004		22,004	12,015	9,989	54.6%	
24-5046-**-**-**	Effluent Chemistry	20,000		20,000	34,256	(14,256)	171.3%	(6)
24-5058-**-**-**	Maintenance Equip. & Facilities (Common) 41-C	1,004		1,004	-	1,004	-	
24-5067-**-**-**	Port Cleaning	35,000		35,000	-	35,000	-	
24-5802-**-**-**	Shipping/Freight	100		100	-	100	-	
24-6500-**-**-**	IT Allocations in to PC's & Depts.	12,728		12,728	10,319	2,409	81.1%	
	Total Other Expenses	415,476	-	415,476	340,147	75,329	81.9%	
	Total Expenses	574,568	-	574,568	499,851	74,717	87.0%	
	Total O&M Expenses	**17,719,855**	**100,000**	**17,819,855**	**14,272,596**	**3,547,259**	**80.1%**	

* 05/06/2021 Board approved budget amendment ($100,000)

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended April 30, 2021

(1) O&M overtime is elevated due to staff coverage needed for COVID19 impacts and after hours construction activities.

(2) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.

(3) Foul air system assessment was conducted to ensure that foul air control properly functions after recent system modifications.

(4) Water Quality Fee increases.

(5) Janitorial services are elevated due to additional office disinfection and cleaning.

(6) Increased toxicity monitoring due to permit exceedances and Investigative Order requirements.

(7) Costs related to required pretreatment ordinance update (PC 08) & preparation of a report of water discharge for recycled water order (PC 12)

(8) Annual priority pollutants testing as required by NPDES permit.

(9) Additional fuel purchases have been required at CTP due to several extended power outages and construction-related shutdowns.

(10) Engine repairs and equipment overhauls have required engine shutdowns and electricity purchases.

(11) Tree removals from emergency projects in response to Santa Ana Winds.

(12) Construction related expenses.

(13) Emergency water line repairs completed at RTP.

(14) Purchasing related to valves and actuators replacement for AWT.

(15) Additional supplies for new regulations and preparation for new permit requirements.

Exhibit E-2

South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering
For the Period Ended April 30, 2021
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	196,836	125,324	71,512	63.7%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	103,621	68,376	35,245	66.0%
	Total Payroll Costs	300,457	193,700	106,757	64.5%
Other Expenses					
01-5022-03-00-00	Miscellaneous Expense	3,184	2,400	784	75.4%
01-5023-03-00-00	Office Supplies - All	208	31	177	14.9%
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	275	1,969	12.3%
01-5037-03-00-00	Office Equipment	408	-	408	-
01-5039-03-00-00	Membership Dues/Fees	1,377	664	713	48.2%
01-5061-03-00-00	Mileage	510	47	463	9.1%
01-5309-03-00-00	Operating Leases	6,829	5,408	1,421	79.2%
01-5705-03-00-00	Monthly Car Allowance	4,200	3,522	678	83.8%
01-5802-03-00-00	Shipping/Freight	312	-	312	-
01-6500-03-00-00	IT Allocations in to PC's & Depts.	50,794	41,177	9,617	81.1%
	Total Other Expenses	76,810	53,523	23,288	69.7%
	Total Engineering Expenses	**377,267**	**247,222**	**130,046**	**65.5%**

Exhibit E-3

South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration
For the Period Ended April 30, 2021
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe						
01-6000-04-00-00	Regular Salaries-Admin or IT	944,542	755,036	189,506	79.9%	
01-6001-04-00-00	Overtime Salaries-Admin or IT	20,000	29,240	(9,240)	146.2%	(1)
01-6315-04-00-00	Comp Time - Admin	15,000	7,455	7,545	49.7%	
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	497,236	411,943	85,293	82.8%	
	Total Payroll Costs	1,476,778	1,203,673	273,105	81.5%	
Other Expenses						
01-6018-04-00-00	Public Notices/ Public Relations	-	2,180	(2,180)	-	(2)
01-6101-04-00-00	HR Recruitment & Employee Relations	26,500	19,620	6,880	74.0%	
01-6102-04-00-00	Subscriptions	2,040	1,818	222	89.1%	
01-6200-04-00-00	Management Support Services	102,000	43,493	58,507	42.6%	
01-6201-04-00-00	Audit	44,900	37,250	7,650	83.0%	
01-6202-04-00-00	Legal	200,000	278,116	(78,116)	139.1%	(3)
01-6204-04-00-00	Postage	4,000	837	3,163	20.9%	
01-6223-04-00-00	Office Supplies - Admin	6,120	3,474	2,646	56.8%	
01-6224-04-00-00	Office Equipment Admin or IT	1,000	1,854	(854)	185.4%	
01-6234-04-00-00	Memberships & Trainings	88,950	72,358	16,592	81.3%	
01-6239-04-00-00	Travel & Conference	10,965	2,063	8,902	18.8%	
01-6240-04-00-00	Scholarship Sponsorship		1,000	(1,000)	-	
01-6241-04-00-00	Education Reimbursement	3,000	1,500	1,500	50.0%	
01-6310-04-00-00	Miscellaneous	23,460	14,844	8,616	63.3%	
01-6311-04-00-00	Mileage	1,211	26	1,185	2.1%	
01-6317-04-00-00	Contract Services Misc	5,610	4,564	1,046	81.4%	
01-6500-04-00-00	IT Allocations in to PC's & Depts.	116,635	94,551	22,084	81.1%	
01-6601-04-00-00	Shipping/Freight	3,740	3,046	694	81.4%	
01-6705-04-00-00	Monthly Car Allowance	12,000	10,062	1,938	83.8%	
	Total Other Expenses	652,131	594,679	59,476	91.2%	
	Total Admin Expenses	**2,128,909**	**1,798,352**	**332,581**	**84.5%**	

(1) Overtime salary and comp should be considered together
(2) Publication fee for ordinance
(3) JPA Revision projected over budget for Legal line item

South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
For the Period Ended April 30, 2021
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	93,909	83,583	10,326	89.0%
01-6001-05-00-00	Overtime Salaries-Admin or IT	-	-	-	-
01-6315-05-00-00	Comp Time - IT	5,000	-	5,000	-
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	49,437	45,602	3,835	92.2%
	Total Salary & Fringe	148,346	129,185	19,161	87.1%
Other Expenses					
01-6028-05-00-00	Small Tools & Supplies	1,000	-	1,000	-
01-6035-05-00-00	Training Expense	2,000	1,725	275	86.3%
01-6037-05-00-00	Office Equipment	600	-	600	-
01-6234-05-00-00	Memberships & Trainings	1,375	-	1,375	-
01-6239-05-00-00	Travel & Conference	1,750	-	1,750	-
01-6300-05-00-00	Software Maintenance Agreements	38,779	29,857	8,922	77.0%
01-6301-05-00-00	Hardware Maintenance Agreements	7,126	2,291	4,835	32.1%
01-6302-05-00-00	Cloud Subscriptions (Internet)	148,369	113,024	35,345	76.2%
01-6303-05-00-00	Telecommunications	150,534	117,355	33,179	78.0%
01-6305-05-00-00	IT Professional Services	108,060	109,264	(1,204)	101.1%
01-6306-05-00-00	Small Hardware Purchases (< $5k)	29,200	12,817	16,383	43.9%
01-6307-05-00-00	Small Software Purchases & Licenses (<$5k)	26,908	23,043	3,865	85.6%
01-6308-05-00-00	IT Memberships	160	-	160	-
01-6309-05-00-00	Operating Leases	55,200	46,464	8,736	84.2%
01-6310-05-00-00	Miscellaneous	5,000	-	5,000	-
01-6312-05-00-00	Computer & Photocopy Supplies	-	2,224	(2,224)	-
	Total Other Expenses	576,061	458,064	117,997	79.5%
	Total Expenses before Allocation	**724,407**	**587,250**	**137,157**	**81.1%**
IT Allocations (Out) to PC's & Depts					
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(724,407)	(587,250)	(137,157)	81.1%
	Total IT Allocations (Out) to PC's & Depts	(724,407)	(587,250)	(137,157)	81.1%

Agenda Item 4E

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Financial Reports for the Month of May 2021

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:

1. Summary of Disbursements for May 2021 (Exhibit A)
2. Schedule of Funds Available for Reinvestment (Exhibit B)
   - Local Agency Investment Fund (LAIF)
3. Schedule of Cash and Investments (Exhibit C)
4. Capital Schedule (Exhibit D)
   - Capital Projects – Graph (Exhibit D-1)
5. 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

May 2021 cash disbursements were: $3,146,986.

- 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 to the Board of Directors to ratify the May 2021 disbursements for the period from May 1, 2021, through May 31, 2021, totaling $3,146,986, and to receive and file the May 2021 Financial Reports as submitted.

Exhibit A

South Orange County Wastewater Authority
Summary of Disbursements for May 2021
Staff Recommendation of Fiscal Matters

	Actual
General Fund	$ (175,537)
PC 2 - Jay B. Latham Plant	(1,469,159)
PC 5 - San Juan Creek Ocean Outfall	(231,286)
PC 8 - Pretreatment Program	(13,387)
PC 12 SO - Water Reclamation Permits	(57,412)
PC 15 - Coastal Treatment Plant/AWT	(508,499)
PC 17 - Joint Regional Wastewater Reclamation	(665,166)
PC 21 - Effluent Transmission Main	(1,280.95)
PC 24 - Aliso Creek Ocean Outfall	(25,259)
Total	**$ (3,146,986)**

Exhibit B

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of May 31, 2021

CASH IN BANK: (BEGINNING BAL.)	$	2,792,239
L.A.I.F. FUNDS: (BEGINNING BAL.)		9,420,065
DEPOSITS, TRANSFERS & ADJUSTMENTS:[1]		8,770,585
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION[2]		(3,146,986)
TOTAL CASH IN BANK	**$**	**17,835,902**

[1] Outstanding Items from prior month cleared the bank

[2] 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 05/13/21

PMIA Average Monthly Effective Yields[1]

Apr	**0.339**
Mar	0.357
Feb	0.407

Quarterly Performance Quarter Ended 03/31/21

LAIF Apportionment Rate[2]:	0.44
LAIF Earnings Ratio[2]:	0.00001214175683392
LAIF Fair Value Factor[1]:	1.001269853
PMIA Daily[1]:	0.35%
PMIA Quarter to Date[1]:	0.41%
PMIA Average Life[1]:	220

Pooled Money Investment Account Monthly Portfolio Composition [1] 04/30/21 $140.8 billion

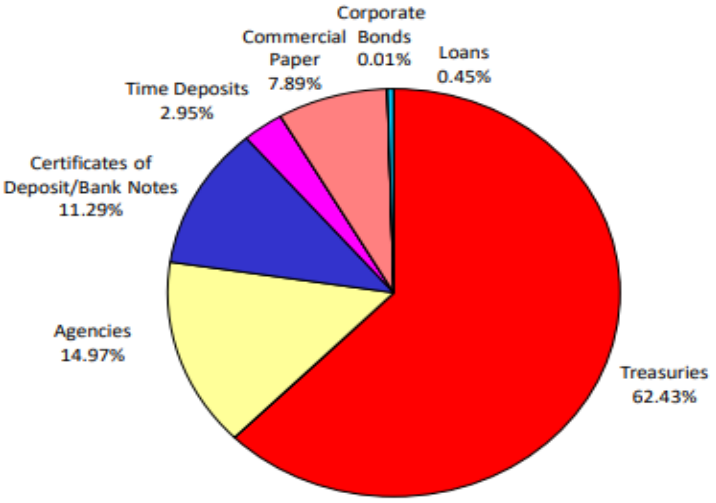


Chart does not include 0.01% of mortgages. Percentages may not total 100% due to rounding.

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).

Source:
[1] State of California, Office of the Treasurer
[2] State of Calfiornia, Office of the Controller

Exhibit C

South Orange County Wastewater Authority
Schedule of Cash and Investments
as of May 31, 2021

MVA	$	12,478	(A)
A/P Checking		1,549,143	(B)
Payroll Checking		72,216	(C)
State LAIF		16,202,065	(D)
Total Cash in Bank	**$**	**17,835,902**	
Petty Cash		1,600	(E)
Total Operating Cash	**$**	**17,837,502**	
OPEB Trust		6,525,637	(F)
Total Cash and Investments	**$**	**24,363,139**	

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.

Exhibit D

South Orange County Wastewater Authority
Capital Projects Summaries
For the Period Ended May 31, 2021
(in dollars)

Description	FY 2020-21 Budget vs. Actual Spending							
	Capital Budget	[1]Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Open Receivables	% Expended vs. Billed
PC 2-JB Latham	$ 11,001,875	$ 6,395,144	$ 4,606,731	58.1%	$ 6,653,978	$ 6,653,978	$ -	96.1%
PC 5-San Juan Creek Outfall	1,263,700	1,399,691	(135,991)	110.8%	1,263,700	1,263,700		110.8%
PC 15-Coastal	9,901,134	5,919,774	3,981,360	59.8%	3,750,000	3,750,000		157.9%
PC 17-Regional	2,673,023	2,497,021	176,002	93.4%	117,111	117,111		-
PC 21 Effluent Transmission	2,322,668	28,111	2,294,557	1.2%	100,000	100,000		28.1%
[2] PC 24 Aliso Creek Outfall	-	6,254	(6,254)	0.0%	-	-		-
Total Large Capital	**$ 27,162,400**	**$ 16,245,995**	**$ 10,916,405**	**59.8%**	**$ 11,884,789**	**$ 11,884,789**	**$ -**	**136.7%**
Non-Capital Engineering	1,161,634	77,362	1,084,272	6.7%	94,210	94,210		82.1%
Non-Capital Misc Engineering	75,000	1,050	73,950	1.4%	56,250	56,250		1.9%
Small Internal Capital	2,099,000	1,110,042	988,958	52.9%	2,099,000	2,099,000		52.9%
Total Capital	**$ 30,498,034**	**$ 17,434,449**	**$ 13,063,585**	**57.2%**	**$ 14,134,249**	**$ 14,134,249**	**$ -**	**123.3%**

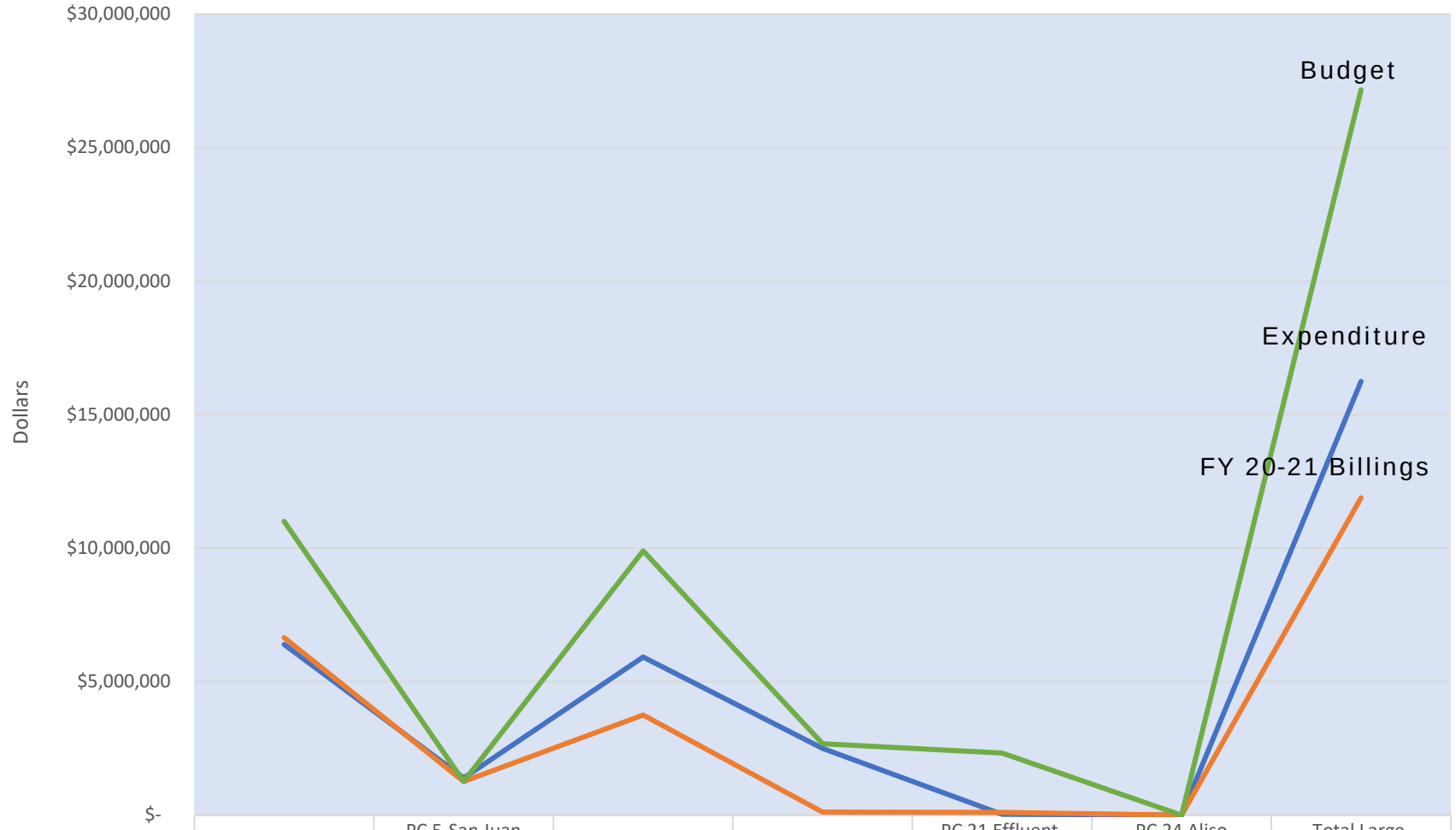
[1] Fiscal Year Spending does not include spending on carryover projects from FY 2019-20 Budget; Small Capital and Non-Capital work delayed because of COVID 19:

	Carryover	YTD Spending	Balance	% Expended
Non-Capital Engineering	$369,508	$125,156	$244,352	33.9%
Non-Capital Misc Engineering	252,298	104,192	148,106	41.3%
Small Internal Capital	565,000	386,211	178,789	68.4%
	$1,186,806	**$615,558**	**$571,248**	**51.9%**

[2] PC 24 is paid out of Cash on Hand collected in an earlier year

Large Capital Projects Fiscal Year '20-21 Budget vs. Year-to-Date Expenditures & Billings as of 5/31/2021

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 5/31/21	$6,395,144	$1,399,691	$5,919,774	$2,497,021	28,110.91	$6,254	$16,245,995
FY 20-21 Billings	$6,653,978	$1,263,700	$3,750,000	$117,111	$100,000	$0	$11,884,789
Capital Budget 20-21	$11,001,875	$1,263,700	$9,901,134	$2,673,023	$2,322,668	-	$27,162,400

Exhibit E-1

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended May 31, 2021
(in dollars)

		FY 2020-21 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe								
-5000--**-**	Regular Salaries-O&M	4,510,604		4,510,604	4,013,856	496,748	89.0%	
-5001--**-**	Overtime Salaries-O&M	128,700		128,700	102,723	25,977	79.8%	
-5306--**-**	Scheduled Holiday Work	33,964		33,964	65,021	(31,057)	191.4%	
-5315--**-**	Comp Time - O&M	12,168		12,168	13,200	(1,032)	108.5%	
-5401--**-**	Fringe Benefits IN to PC's & Depts.	2,374,488		2,374,488	2,189,936	184,552	92.2%	
-5700--**-**	Standby Pay	67,608		67,608	62,140	5,468	91.9%	
	Total Payroll Costs	7,127,532	-	7,127,532	6,446,876	680,656	90.5%	
Other Expenses								
-5002--**-**	Electricity	1,154,008		1,154,008	1,056,275	97,733	91.5%	
-5003--**-**	Natural Gas	234,532		234,532	232,684	1,848	99.2%	
-5004--**-**	Potable & Reclaimed Water	77,008		77,008	71,548	5,460	92.9%	
-5005--**-**	Co-generation Power Credit	(669,000)		(669,000)	(645,408)	(23,592)	96.5%	
-5006--**-**	Chlorine/Sodium Hypochlorite	479,900		479,900	409,143	70,757	85.3%	
-5007--**-**	Polymer Products	739,004		739,004	642,839	96,165	87.0%	
-5008--**-**	Ferric Chloride	452,000	50,000	502,000	578,410	(76,410)	115.2%	(1)
-5009--**-**	Odor Control Chemicals	114,996		114,996	78,153	36,843	68.0%	
-5010--**-**	Other Chemicals - Misc.	2,996		2,996	-	2,996	-	
-5011--**-**	Laboratory Services	40,580		40,580	22,576	18,004	55.6%	
-5012--**-**	Grit Hauling	124,996		124,996	105,794	19,202	84.6%	
-5013--**-**	Landscaping	206,004		206,004	201,504	4,500	97.8%	(2)
-5015--**-**	Management Support Services	370,504		370,504	285,195	85,309	77.0%	
-5016--**-**	Audit - Environmental	1,252		1,252	-	1,252	-	
-5017--**-**	Legal Fees	32,355		32,355	64,457	(32,102)	199.2%	(3)
-5018--**-**	Public Notices/ Public Relations	5,500		5,500	-	5,500	-	
-5019--**-**	Contract Services Misc.	256,012		256,012	247,086	8,926	96.5%	
-5021--**-**	Small Vehicle Expense	24,556		24,556	15,800	8,756	64.3%	
-5022--**-**	Miscellaneous Expense	18,020		18,020	4,297	13,723	23.8%	
-5023--**-**	Office Supplies - All	43,004		43,004	23,055	19,949	53.6%	
-5024--**-**	Petroleum Products	34,000		34,000	12,060	21,940	35.5%	
-5025--**-**	Uniforms	68,992		68,992	55,895	13,097	81.0%	
-5026--**-**	Small Vehicle Fuel	24,604		24,604	11,602	13,002	47.2%	
-5027--**-**	Insurance - Property/Liability	275,584		275,584	249,517	26,067	90.5%	
-5028--**-**	Small Tools & Supplies	77,500		77,500	65,763	11,737	84.9%	
-5030--**-**	Trash Disposal	6,992		6,992	5,864	1,128	83.9%	
-5031--**-**	Safety Program & Supplies	114,868		114,868	113,454	1,414	98.8%	
-5032--**-**	Equipment Rental	7,004		7,004	876	6,128	12.5%	
-5033--**-**	Recruitment	2,504		2,504	1,581	923	63.1%	
-5034--**-**	Travel Expense/Tech. Conferences	32,316		32,316	12,097	20,219	37.4%	
-5035--**-**	Training Expense	40,664		40,664	12,621	28,043	31.0%	
-5036--**-**	Laboratory Supplies	100,152		100,152	124,941	(24,789)	124.8%	
-5037--**-**	Office Equipment	65,000		65,000	25,256	39,744	38.9%	
-5038--**-**	Permits	480,520		480,520	505,754	(25,234)	105.3%	(4)
-5039--**-**	Membership Dues/Fees	23,772		23,772	9,080	14,692	38.2%	
-5044--**-**	Offshore Monitoring	44,004		44,004	32,030	11,974	72.8%	
-5046--**-**	Effluent Chemistry	40,004		40,004	61,864	(21,860)	154.6%	(5)
-5047--**-**	Access Road Expenses	44,004		44,004	38,887	5,117	88.4%	
-5048--**-**	Storm Damage	20,008		20,008	-	20,008	-	
-5049--**-**	Biosolids Disposal	1,429,996	50,000	1,479,996	1,321,840	158,156	89.3%	
-5050--**-**	Contract Services Generators - 29A	22,008		22,008	50	21,958	0.2%	
-5051--**-**	Contract Serv - Metering Station - 29B	-		-	2,767	(2,767)	-	
-5052--**-**	Janitorial Services	94,004		94,004	96,102	(2,098)	102.2%	(6)
-5053--**-**	Contract Serv - Digester Cleaning - 29E	125,000		125,000	29,069	95,931	23.3%	
-5054--**-**	Diesel Truck Maint	41,004		41,004	24,802	16,202	60.5%	
-5055--**-**	Diesel Truck Fuel - 37B	11,504		11,504	6,296	5,208	54.7%	
-5056--**-**	Maintenance Equip. & Facilities (Solids)	361,000		361,000	296,563	64,437	82.2%	
-5057--**-**	Maintenance Equip. & Facilities (Liquids)	669,000		669,000	506,313	162,687	75.7%	
-5058--**-**	Maintenance Equip. & Facilities (Common)	86,008		86,008	137,401	(51,393)	159.8%	(7)
-5059--**-**	Maintenance Equip. & Facilities (Co-Gen)	960,000		960,000	582,276	377,724	60.7%	
-5060--**-**	Maintenance Equip. & Facilities (AWT)	75,000		75,000	68,848	6,152	91.8%	
-5061--**-**	Mileage	3,548		3,548	1,736	1,812	48.9%	
-5067--**-**	Port Cleaning	70,000		70,000	-	70,000	-	
-5068--**-**	MNWD Potable Water Supplies & Svcs.	42,000		42,000	17,794	24,206	42.4%	
-5076--**-**	SCADA Infrastructure	91,508		91,508	65,829	25,679	71.9%	
-5077--**-**	IT Direct	10,000		10,000	-	10,000	-	
-5105--**-**	Co-Generation Power Credit - Offset	669,000		669,000	645,408	23,592	96.5%	
-5303--**-**	Group Insurance Waiver	14,392		14,392	12,960	1,432	90.0%	
-5305--**-**	Medicare Tax Payments for Employees	1,336		1,336	1,747	(411)	130.7%	
-5309--**-**	Operating Leases	31,008		31,008	26,212	4,796	84.5%	
-5705--**-**	Monthly Car Allowance	31,192		31,192	32,541	(1,349)	104.3%	
-5799--**-**	Zephyr Wall Costs Share - O&M	(14,000)		(14,000)	(11,459)	(2,541)	81.9%	
-5802--**-**	Shipping/Freight	100		100	-	100	-	
-6241--**-**	Education Reimbursement	-		-	606	(606)	-	
-6500--**-**	IT Allocations in to PC's & Depts.	556,996		556,996	506,796	50,200	91.0%	
	Total Other Expenses	10,592,323	100,000	10,692,323	9,106,039	1,586,284	85.2%	
	Total O&M Expenses	**17,719,855**	**100,000**	**17,819,855**	**15,552,915**	**2,266,940**	**87.3%**	

* 05/06/2021 Board approved budget amendment ($100,000)

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended May 31, 2021
(in dollars)

(1) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.

(2) Tree removals from emergency projects and Santa Ana Winds have been elevated this year.

(3) Regulatory Environmental requirements and Construction agreements review.

(4) Water Quality Fee increases.

(5) Increased toxicity monitoring due to permit exceedances and Investigative Order requirements.

(6) Janitorial services are elevated due to additional office disinfection and cleaning.

(7) Emergency water line repairs completed at RTP.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended May 31, 2021
(in dollars)

		FY 2020-21 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	1,518,048		1,518,048	1,423,433	94,615	93.8%	
02-5001-**-**-**	Overtime Salaries-O&M	38,716		38,716	40,782	(2,066)	105.3%	(1)
02-5306-**-**-**	Scheduled Holiday Work	13,364		13,364	24,677	(11,313)	184.7%	(1)
02-5315-**-**-**	Comp Time - O&M	5,028		5,028	5,007	21	99.6%	(1)
02-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	799,132		799,132	776,617	22,515	97.2%	
02-5700-**-**-**	Standby Pay	25,352		25,352	24,603	750	97.0%	
	Total Payroll Costs	2,399,640	-	2,399,640	2,295,119	104,521	95.6%	
Other Expenses								
02-5002-**-**-**	Electricity	547,004		547,004	416,841	130,163	76.2%	
02-5003-**-**-**	Natural Gas	121,036		121,036	110,707	10,329	91.5%	
02-5004-**-**-**	Potable & Reclaimed Water	24,004		24,004	22,268	1,736	92.8%	
02-5006-**-**-**	Chlorine/Sodium Hypochlorite	7,900		7,900	6,592	1,308	83.4%	
02-5007-**-**-**	Polymer Products	278,000		278,000	239,889	38,111	86.3%	
02-5008-**-**-**	Ferric Chloride	140,000	50,000	190,000	228,448	(38,448)	120.2%	(2)
02-5009-**-**-**	Odor Control Chemicals	21,000		21,000	16,546	4,454	78.8%	
02-5010-**-**-**	Other Chemicals - Misc.	1,000		1,000	-	1,000	-	
02-5011-**-**-**	Laboratory Services	12,500		12,500	5,743	6,757	45.9%	
02-5012-**-**-**	Grit Hauling	54,000		54,000	45,977	8,023	85.1%	
02-5013-**-**-**	Landscaping	75,008		75,008	47,640	27,368	63.5%	
02-5015-**-**-**	Management Support Services	26,004		26,004	38,557	(12,553)	148.3%	(3)
02-5017-**-**-**	Legal Fees	3,095		3,095	4,141	(1,046)	133.8%	
02-5019-**-**-**	Contract Services Misc.	75,008		75,008	75,393	(385)	100.5%	
02-5021-**-**-**	Small Vehicle Expense	11,000		11,000	6,524	4,476	59.3%	
02-5022-**-**-**	Miscellaneous Expense	8,000		8,000	2,433	5,567	30.4%	
02-5023-**-**-**	Office Supplies - All	28,000		28,000	9,885	18,115	35.3%	
02-5024-**-**-**	Petroleum Products	11,000		11,000	2,724	8,276	24.8%	
02-5025-**-**-**	Uniforms	32,992		32,992	27,129	5,863	82.2%	
02-5026-**-**-**	Small Vehicle Fuel	12,004		12,004	3,440	8,564	28.7%	
02-5027-**-**-**	Insurance - Property/Liability	89,920		89,920	84,401	5,519	93.9%	
02-5028-**-**-**	Small Tools & Supplies	37,004		37,004	29,552	7,452	79.9%	
02-5030-**-**-**	Trash Disposal	2,000		2,000	2,105	(105)	105.2%	
02-5031-**-**-**	Safety Program & Supplies	39,004		39,004	42,322	(3,318)	108.5%	
02-5032-**-**-**	Equipment Rental	3,000		3,000	876	2,124	29.2%	
02-5033-**-**-**	Recruitment	1,000		1,000	1,136	(136)	113.6%	
02-5034-**-**-**	Travel Expense/Tech. Conferences	9,496		9,496	3,418	6,078	36.0%	
02-5035-**-**-**	Training Expense	12,808		12,808	3,141	9,667	24.5%	
02-5036-**-**-**	Laboratory Supplies	16,472		16,472	13,221	3,251	80.3%	
02-5037-**-**-**	Office Equipment	13,000		13,000	1,621	11,379	12.5%	
02-5038-**-**-**	Permits	25,504		25,504	39,351	(13,847)	154.3%	(4)
02-5039-**-**-**	Membership Dues/Fees	4,384		4,384	3,263	1,121	74.4%	
02-5049-**-**-**	Biosolids Disposal	524,996	50,000	574,996	573,392	1,604	99.7%	
02-5050-**-**-**	Contract Services Generators - 29A	10,004		10,004	50	9,954	0.00	
02-5052-**-**-**	Janitorial Services	41,000		41,000	49,519	(8,519)	120.8%	(5)
02-5053-**-**-**	Contract Serv - Digester Cleaning - 29E	60,000		60,000	29,069	30,931	48.4%	
02-5054-**-**-**	Diesel Truck Maint	21,000		21,000	6,185	14,815	29.5%	
02-5055-**-**-**	Diesel Truck Fuel - 37B	3,004		3,004	1,985	1,019	66.1%	
02-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	155,000		155,000	110,246	44,754	71.1%	
02-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	254,000		254,000	160,675	93,325	63.3%	
02-5058-**-**-**	Maintenance Equip. & Facilities (Common)	28,000		28,000	37,660	(9,660)	134.5%	
02-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	369,000		369,000	238,145	130,855	64.5%	
02-5061-**-**-**	Mileage	2,044		2,044	589	1,455	28.8%	
02-5076-**-**-**	SCADA Infrastructure	30,504		30,504	21,943	8,561	71.9%	
02-5077-**-**-**	IT Direct	4,996		4,996	-	4,996	-	
02-5303-**-**-**	Group Insurance Waiver	3,592		3,592	3,309	283	92.1%	
02-5309-**-**-**	Operating Leases	25,004		25,004	23,014	1,990	92.0%	
02-5705-**-**-**	Monthly Car Allowance	18,600		18,600	20,959	(2,359)	112.7%	
02-5799-**-**-**	Zephyr Wall Costs Share - O&M	(14,000)		(14,000)	(11,459)	(2,541)	81.9%	
02-6500-**-**-**	IT Allocations in to PC's & Depts.	187,624		187,624	170,719	16,905	91.0%	
	Total Other Expenses	3,466,515	100,000	3,566,515	2,971,613	594,902	83.3%	
	Total Expenses	5,866,155	100,000	5,966,155	5,266,732	699,423	88.3%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended May 31, 2021
(in dollars)

		FY 2020-21 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	94,880		94,880	116,270	(21,390)	122.5%	
05-5001-**-**-**	Overtime Salaries-O&M	584		584	1,508	(924)	258.3%	(1)
05-5306-**-**-**	Scheduled Holiday Work	100		100	468	(368)	-	
05-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	49,940		49,940	63,436	(13,496)	127.0%	
	Total Payroll Costs	145,504	-	145,504	181,683	(36,179)	124.9%	
Other Expenses								
05-5002-**-**-**	Electricity	1,004		1,004	-	1,004	-	
05-5003-**-**-**	Natural Gas	500		500	-	500	-	
05-5015-**-**-**	Management Support Services	80,000		80,000	42,857	37,143	53.6%	
05-5017-**-**-**	Legal Fees	2,008		2,008	1,351	658	67.3%	
05-5026-**-**-**	Small Vehicle Fuel	500		500	-	500	-	
05-5027-**-**-**	Insurance - Property/Liability	8,192		8,192	7,285	907	88.9%	
05-5031-**-**-**	Safety Supplies	1,004		1,004	-	1,004	-	
05-5034-**-**-**	Travel Expense/Tech. Conferences	2,000		2,000	300	1,700	15.0%	
05-5035-**-**-**	Training Expense	4,000		4,000	62	3,938	1.5%	
05-5036-**-**-**	Laboratory Supplies	24,504		24,504	43,321	(18,817)	176.8%	(15)
05-5038-**-**-**	Permits	198,996		198,996	211,086	(12,090)	106.1%	(4)
05-5039-**-**-**	Membership Dues/Fees	5,564		5,564	-	5,564	-	
05-5044-**-**-**	Offshore Monitoring	22,000		22,000	15,175	6,825	69.0%	
05-5046-**-**-**	Effluent Chemistry	20,004		20,004	27,564	(7,560)	137.8%	(6)
05-5056-**-**-**	Maintenance Equip. & Facilities (Solids) 41-A	-		-	552	(552)	-	
05-5058-**-**-**	Maintenance Equip. & Facilities (Common)	1,004		1,004	-	1,004	-	
05-5067-**-**-**	Port Cleaning	35,000		35,000	-	35,000	-	
05-6500-**-**-**	IT Allocations in to PC's & Depts.	11,716		11,716	10,660	1,056	91.0%	
	Total Other Expenses	417,996	-	417,996	360,213	57,783	86.2%	
	Total Expenses	563,500	-	563,500	541,895	21,605	96.2%	
08 - Pre Treatment								
Salary and Fringe								
08-5000-**-**-**	Regular Salaries-O&M	81,396		81,396	89,046	(7,650)	109.4%	
08-5306-**-**-**	Scheduled Holiday Work	356		356	-	356		
08-5315-**-**-**	Comp Time - Environment	2,476		2,476	-	2,476	-	
08-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	42,852		42,852	48,583	(5,731)	113.4%	
	Total Payroll Costs	127,080	-	127,080	137,629	(10,549)	108.3%	
Other Expenses								
08-5011-**-**-**	Laboratory Services	3,008		3,008	228	2,781	7.6%	
08-5015-**-**-**	Management Support Services	4,000		4,000	-	4,000	-	
08-5016-**-**-**	Audit - Environmental	1,252		1,252	-	1,252	-	
08-5017-**-**-**	Legal Fees	2,532		2,532	3,244	(712)	128.1%	(7)
08-5018-**-**-**	Public Notices/ Public Relations	5,500		5,500	-	5,500	-	
08-5021-**-**-**	Small Vehicle Expense - 31A	1,052		1,052	36	1,016	3.5%	
08-5022-**-**-**	Miscellaneous Expense	2,020		2,020	-	2,020	-	
08-5026-**-**-**	Small Vehicle Fuel - 37A	1,096		1,096	171	925	15.6%	
08-5027-**-**-**	Insurance - Property/Liability	2,844		2,844	2,529	315	88.9%	
08-5028-**-**-**	Small Tools & Supplies	3,496		3,496	2,248	1,248	64.3%	
08-5034-**-**-**	Travel Expense/Tech. Conferences	2,220		2,220	695	1,525	31.3%	
08-5035-**-**-**	Training Expense	796		796	708	88	89.0%	
08-5038-**-**-**	Permits and Fines	6,000		6,000	-	6,000	-	
08-5039-**-**-**	Membership Dues/Fees	800		800	743	57	92.9%	
08-6500-**-**-**	IT Allocations in to PC's & Depts.	10,052		10,052	9,146	906	91.0%	
	Total Other Expenses	46,668	-	46,668	19,748	26,920	42.3%	
	Total Expenses	173,748	-	173,748	157,377	16,371	90.6%	
12 - Water Reclamation Permits								
Salary and Fringe								
12-5000-**-**-**	Regular Salaries-O&M	50,404		50,404	42,744	7,660	84.8%	
12-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	26,528		26,528	23,321	3,207	87.9%	
	Total Payroll Costs	76,932	-	76,932	66,065	10,867	85.9%	
Other Expenses								
12-5015-**-**-**	Management Support Services	157,000		157,000	133,208	23,792	84.8%	
12-5017-**-**-**	Legal Fees	2,008		2,008	9,499	(7,491)	473.1%	(7)
12-5027-**-**-**	Insurance - Property/Liability	3,116		3,116	2,771	345	88.9%	
12-5034-**-**-**	Travel Expense/Tech. Conferences	1,352		1,352	-	1,352	-	
12-5038-**-**-**	Permits	21,512		21,512	20,862	650	97.0%	
12-6500-**-**-**	IT Allocations in to PC's & Depts.	6,236		6,236	5,664	572	90.8%	
	Total Other Expenses	191,224	-	191,224	172,004	19,220	89.9%	
	Total Expenses	268,156	-	268,156	238,069	30,087	88.8%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended May 31, 2021
(in dollars)

		FY 2020-21 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
15 - Coastal Treatment Plant								
Salary and Fringe								
15-5000-**-**-**	Regular Salaries-O&M	939,512		939,512	795,110	144,402	84.6%	
15-5001-**-**-**	Overtime Salaries-O&M	21,760		21,760	18,750	3,010	86.2%	(1)
15-5306-**-**-**	Scheduled Holiday Work	5,096		5,096	12,270	(7,174)	240.8%	(1)
15-5315-**-**-**	Comp Time - O&M	2,100		2,100	4,133	(2,033)	196.8%	(1)
15-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	494,584		494,584	433,807	60,777	87.7%	
15-5700-**-**-**	Standby Pay	16,900		16,900	10,270	6,630	60.8%	
	Total Payroll Costs	1,479,952	-	1,479,952	1,274,340	205,612	86.1%	
Other Expenses								
15-5002-**-**-**	Electricity	256,000		256,000	235,433	20,567	92.0%	
15-5003-**-**-**	Natural Gas	3,000		3,000	2,738	262	91.3%	
15-5004-**-**-**	Potable & Reclaimed Water	25,004		25,004	21,138	3,866	84.5%	
15-5006-**-**-**	Chlorine/Sodium Hypochlorite	92,000		92,000	71,832	20,168	78.1%	
15-5007-**-**-**	Polymer Products	1,004		1,004	-	1,004	-	
15-5008-**-**-**	Ferric Chloride	46,996		46,996	51,601	(4,605)	109.8%	(2)
15-5009-**-**-**	Odor Control Chemicals	50,000		50,000	31,651	18,349	63.3%	
15-5011-**-**-**	Laboratory Services	8,000		8,000	8,332	(332)	104.1%	(8)
15-5012-**-**-**	Grit Hauling	20,996		20,996	23,424	(2,428)	111.6%	
15-5013-**-**-**	Landscaping	56,000		56,000	28,550	27,450	51.0%	
15-5015-**-**-**	Management Support Services	2,500		2,500	3,198	(698)	127.9%	(3)
15-5017-**-**-**	Legal Fees	15,700		15,700	4,604	11,096	29.3%	
15-5019-**-**-**	Contract Services Misc.	85,000		85,000	82,749	2,251	97.4%	
15-5021-**-**-**	Small Vehicle Expense - 31A	5,504		5,504	3,168	2,336	57.6%	
15-5022-**-**-**	Miscellaneous Expense	1,000		1,000	550	450	55.0%	
15-5023-**-**-**	Office Supplies - All	4,004		4,004	4,354	(350)	108.7%	
15-5024-**-**-**	Petroleum Products	3,000		3,000	3,264	(264)	108.8%	(9)
15-5025-**-**-**	Uniforms	8,996		8,996	6,374	2,622	70.9%	
15-5026-**-**-**	Small Vehicle Fuel - 37A	2,000		2,000	1,620	380	81.0%	
15-5027-**-**-**	Insurance - Property/Liability	46,396		46,396	41,261	5,135	88.9%	
15-5028-**-**-**	Small Tools & Supplies	8,000		8,000	7,559	441	94.5%	
15-5030-**-**-**	Trash Disposal	2,996		2,996	1,724	1,272	57.5%	
15-5031-**-**-**	Safety Program & Supplies	33,352		33,352	23,435	9,917	70.3%	
15-5032-**-**-**	Equipment Rental	1,000		1,000	-	1,000	-	
15-5033-**-**-**	Recruitment	500		500	150	350	29.9%	
15-5034-**-**-**	Travel Expense/Tech. Conferences	5,748		5,748	3,450	2,298	60.0%	
15-5035-**-**-**	Training Expense	8,356		8,356	5,031	3,325	60.2%	
15-5036-**-**-**	Laboratory Supplies	11,004		11,004	12,178	(1,174)	110.7%	
15-5037-**-**-**	Office Equipment	2,000		2,000	10	1,990	0.5%	
15-5038-**-**-**	Permits	8,000		8,000	5,739	2,261	71.7%	
15-5039-**-**-**	Membership Dues/Fees	2,600		2,600	1,585	1,015	61.0%	
15-5047-**-**-**	Access Road Expenses	44,004		44,004	38,887	5,117	88.4%	
15-5048-**-**-**	Storm Damage	20,008		20,008	-	20,008	-	
15-5049-**-**-**	Biosolids Disposal	-		-	5,625	(5,625)	-	
15-5050-**-**-**	Contract Services Generators - 29A	4,004		4,004	-	4,004	-	
15-5052-**-**-**	Janitorial Services	12,004		12,004	12,080	(76)	100.6%	
15-5054-**-**-**	Diesel Truck Maint - 31B	1,004		1,004	4,597	(3,593)	4.58	
15-5055-**-**-**	Diesel Truck Fuel - 37B	496		496	-	496	-	
15-5056-01-00-00	Maintenance Equip. & Facilities (Solids) 41-A				9,429	(9,429)		
15-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	179,000		179,000	125,298	53,702	70.0%	
15-5058-**-**-**	Maintenance Equip. & Facilities (Common)	22,000		22,000	6,785	15,215	30.8%	
15-5060-**-**-**	Maintenance Equip. & Facilities (AWT) 41-E	37,000		37,000	15,620	21,380	42.2%	
15-5061-**-**-**	Mileage	500		500	154	346	30.8%	
15-5076-**-**-**	SCADA Infrastructure	30,500		30,500	21,943	8,557	71.9%	
15-5303-**-**-**	Group Insurance Waiver	3,600		3,600	3,309	291	91.9%	
15-5305-**-**-**	Medicare Tax Payments for Employees	1,336		1,336	1,747	(411)	130.7%	
15-5705-**-**-**	Monthly Car Allowance	4,204		4,204	3,861	343	91.8%	
15-6500-**-**-**	IT Allocations in to PC's & Depts.	116,012		116,012	105,560	10,452	91.0%	
	Total Other Expenses	1,292,328	-	1,292,328	1,041,926	250,402	80.6%	
	Total Expenses	2,772,280	-	2,772,280	2,316,267	456,013	83.6%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended May 31, 2021
(in dollars)

		FY 2020-21 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	1,721,896		1,721,896	1,434,245	287,651	83.3%	
17-5001-**-**-**	Overtime Salaries-O&M	66,064		66,064	40,449	25,615	61.2%	(1)
17-5306-**-**-**	Scheduled Holiday Work	14,880		14,880	27,313	(12,433)	183.6%	(1)
17-5315-**-**-**	Comp Time - O&M	2,564		2,564	4,060	(1,496)	158.4%	(1)
17-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	906,456		906,456	782,515	123,941	86.3%	
17-5700-**-**-**	Standby Pay	25,356		25,356	27,268	(1,912)	107.5%	
	Total Payroll Costs	2,737,216	-	2,737,216	2,315,850	421,366	84.6%	
Other Expenses								
17-5002-**-**-**	Electricity	350,000		350,000	404,001	(54,001)	115.4%	(10)
17-5003-**-**-**	Natural Gas	109,996		109,996	119,239	(9,243)	108.4%	
17-5004-**-**-**	Potable & Reclaimed Water	28,000		28,000	28,142	(142)	100.5%	
17-5005-**-**-**	Co-generation Power Credit	(669,000)		(669,000)	(645,408)	(23,592)	96.5%	
17-5006-**-**-**	Chlorine/Sodium Hypochlorite	380,000		380,000	330,719	49,281	87.0%	
17-5007-**-**-**	Polymer Products	460,000		460,000	402,950	57,050	87.6%	
17-5008-**-**-**	Ferric Chloride	265,004		265,004	298,361	(33,357)	112.6%	(2)
17-5009-**-**-**	Odor Control Chemicals	43,996		43,996	29,955	14,041	68.1%	
17-5010-**-**-**	Other Chemicals - Misc.	1,996		1,996	-	1,996	-	
17-5011-**-**-**	Laboratory Services	17,072		17,072	8,274	8,798	48.5%	
17-5012-**-**-**	Grit Hauling - 21A	50,000		50,000	36,393	13,607	72.8%	
17-5013-**-**-**	Landscaping	74,996		74,996	125,315	(50,319)	167.1%	(11)
17-5015-**-**-**	Management Support Services	21,000		21,000	31,389	(10,389)	149.5%	(3)
17-5017-**-**-**	Legal Fees	5,004		5,004	13,640	(8,636)	272.6%	(12)
17-5019-**-**-**	Contract Services Misc.	95,000		95,000	88,943	6,057	93.6%	
17-5021-**-**-**	Small Vehicle Expense	7,000		7,000	6,072	928	86.7%	
17-5022-**-**-**	Miscellaneous Expense	7,000		7,000	1,314	5,686	18.8%	
17-5023-**-**-**	Office Supplies - All	11,000		11,000	8,817	2,183	80.2%	
17-5024-**-**-**	Petroleum Products	20,000		20,000	6,072	13,928	30.4%	
17-5025-**-**-**	Uniforms	27,004		27,004	22,391	4,613	82.9%	
17-5026-**-**-**	Small Vehicle Fuel	9,004		9,004	6,371	2,633	70.8%	
17-5027-**-**-**	Insurance - Property/Liability	115,592		115,592	102,799	12,793	88.9%	
17-5028-**-**-**	Small Tools & Supplies	29,000		29,000	26,403	2,597	91.0%	
17-5030-**-**-**	Trash Disposal	1,996		1,996	2,035	(39)	102.0%	
17-5031-**-**-**	Safety Program & Supplies	40,504		40,504	47,698	(7,194)	117.8%	
17-5032-**-**-**	Equipment Rental	3,004		3,004	-	3,004	-	
17-5033-**-**-**	Recruitment	1,004		1,004	295	709	29.3%	
17-5034-**-**-**	Travel Expense/Tech. Conferences	9,496		9,496	3,934	5,562	41.4%	
17-5035-**-**-**	Training Expense	12,700		12,700	3,617	9,083	28.5%	
17-5036-**-**-**	Laboratory Supplies	23,672		23,672	14,090	9,582	59.5%	
17-5037-**-**-**	Office Equipment	50,000		50,000	23,626	26,374	47.3%	
17-5038-**-**-**	Permits	21,508		21,508	27,823	(6,315)	129.4%	
17-5039-**-**-**	Membership Dues/Fees	4,860		4,860	3,488	1,372	71.8%	
17-5049-**-**-**	Biosolids Disposal	905,000		905,000	742,823	162,177	82.1%	
17-5050-**-**-**	Contract Services Generators - 29A	8,000		8,000	-	8,000	-	
17-5051-**-**-**	Contract Serv - Metering Station - 29B				2,767	(2,767)	-	
17-5052-**-**-**	Janitorial Services	41,000		41,000	34,502	6,498	84.2%	
17-5053-**-**-**	Contract Serv - Digester Cleaning - 29E	65,000		65,000	-	65,000	-	
17-5054-**-**-**	Diesel Truck Maint	19,000		19,000	14,020	4,980	73.8%	
17-5055-**-**-**	Diesel Truck Fuel - 37B	8,004		8,004	4,311	3,693	53.9%	
17-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	206,000		206,000	176,337	29,663	85.6%	
17-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	236,000		236,000	220,340	15,660	93.4%	
17-5058-**-**-**	Maintenance Equip. & Facilities (Common)	34,000		34,000	92,957	(58,957)	273.4%	(13)
17-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	591,000		591,000	344,131	246,869	58.2%	
17-5060-**-**-**	Maintenance Equip. & Facilities (AWT)	38,000		38,000	53,228	(15,228)	140.1%	(14)
17-5061-**-**-**	Mileage	1,004		1,004	994	10	99.0%	
17-5068-**-**-**	MNWD Potable Water Supplies & Svcs.	42,000		42,000	17,794	24,206	42.4%	
17-5076-**-**-**	SCADA Infrastructure	30,504		30,504	21,943	8,561	71.9%	
17-5077-**-**-**	IT Direct	5,004		5,004	-	5,004	-	
17-5105-**-**-**	Co-Generation Power Credit - Offset	669,000		669,000	645,408	23,592	96.5%	
17-5303-**-**-**	Group Insurance Waiver	7,200		7,200	6,341	859	88.1%	
17-5309-**-**-**	Operating Leases	6,004		6,004	3,198	2,806	0.53	
17-5705-**-**-**	Monthly Car Allowance	8,388		8,388	7,722	666	92.1%	
17-6241-**-**-**	Education Reimbursement	-		-	606	(606)	-	
17-6500-**-**-**	IT Allocations in to PC's & Depts.	212,628		212,628	193,466	19,162	91.0%	
	Total Other Expenses	4,760,144	-	4,760,144	4,161,978	598,166	87.4%	
	Total Expenses	7,497,360	-	7,497,360	6,477,829	1,019,531	86.4%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended May 31, 2021
(in dollars)

		FY 2020-21 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
21 - Effluent Transmission Main								
Salary and Fringe								
21-5000-**-**-**	Regular Salaries-O&M	1,384		1,384	792	592	57.2%	
21-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	732		732	432	300	59.0%	
	Total Payroll Costs	2,116	-	2,116	1,224	892	57.9%	
Other Expenses								
21-5019-**-**-**	Contract Services Misc. - 29	1,004		1,004	-	1,004	-	
21-5027-**-**-**	Insurance - Property/Liability	968		968	861	107	88.9%	
	Total Other Expenses	1,972	-	1,972	861	1,111	43.7%	
	Total Expenses	4,088	-	4,088	2,085	2,003	51.0%	
23 - North Coast Interceptor								
Other Expenses								
23-5017-**-**-**	Legal Fees	-			27,979	(27,979)	-	
	Total Other Expenses	-	-	-	27,979	(27,979)	-	
24 - Aliso Creek Ocean Outfall								
Salary and Fringe								
24-5000-**-**-**	Regular Salaries-O&M	103,084		103,084	112,216	(9,132)	108.9%	
24-5001-**-**-**	Overtime Salaries-O&M	1,576		1,576	1,232	344	78.2%	
24-5306-**-**-**	Scheduled Holiday Work	168		168	292	(124)	174.1%	(1)
24-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	54,264		54,264	61,225	(6,961)	112.8%	
	Total Payroll Costs	159,092	-	159,092	174,966	(15,874)	110.0%	
Other Expenses				-				
24-5015-**-**-**	Management Support Services	80,000		80,000	35,986	44,014	45.0%	
24-5017-**-**-**	Legal Fees	2,008		2,008	-	2,008	-	
24-5027-**-**-**	Insurance - Property/Liability	8,556		8,556	7,609	947	88.9%	
24-5031-**-**-**	Safety Supplies	1,004		1,004	-	1,004	-	
24-5034-**-**-**	Travel Expense/Tech. Conferences	2,004		2,004	300	1,704	15.0%	
24-5035-**-**-**	Training Expense	2,004		2,004	62	1,942	3.1%	
24-5036-**-**-**	Laboratory Supplies	24,500		24,500	42,130	(17,630)	172.0%	(15)
24-5038-**-**-**	Permits	199,000		199,000	200,893	(1,893)	101.0%	(4)
24-5039-**-**-**	Membership Dues/Fees	5,564		5,564	-	5,564	-	
24-5044-**-**-**	Offshore Monitoring	22,004		22,004	16,855	5,149	76.6%	
24-5046-**-**-**	Effluent Chemistry	20,000		20,000	34,300	(14,300)	171.5%	(6)
24-5058-**-**-**	Maintenance Equip. & Facilities (Common) 41-C	1,004		1,004	-	1,004	-	
24-5067-**-**-**	Port Cleaning	35,000		35,000	-	35,000	-	
24-5802-**-**-**	Shipping/Freight	100		100	-	100	-	
24-6500-**-**-**	IT Allocations in to PC's & Depts.	12,728		12,728	11,582	1,146	91.0%	
	Total Other Expenses	415,476	-	415,476	349,717	65,759	84.2%	
	Total Expenses	574,568	-	574,568	524,682	49,886	91.3%	
	Total O&M Expenses	**17,719,855**	**100,000**	**17,819,855**	**15,552,915**	**2,266,940**	**87.3%**	

* 05/06/2021 Board approved budget amendment ($100,000)

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended May 31, 2021

(1) O&M overtime is elevated due to staff coverage needed for COVID19 impacts and after hours construction activities.

(2) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.

(3) Foul air system assessment was conducted to ensure that foul air control properly functions after recent system modifications.

(4) Water Quality Fee increases.

(5) Janitorial services are elevated due to additional office disinfection and cleaning.

(6) Increased toxicity monitoring due to permit exceedances and Investigative Order requirements.

(7) Costs related to required pretreatment ordinance update (PC 08) & preparation of a report of water discharge for recycled water order (PC 12)

(8) Annual priority pollutants testing as required by NPDES permit.

(9) Additional fuel purchases have been required at CTP due to several extended power outages and construction-related shutdowns.

(10) Engine repairs and equipment overhauls have required engine shutdowns and electricity purchases.

(11) Tree removals from emergency projects in response to Santa Ana Winds.

(12) Construction related expenses.

(13) Emergency water line repairs completed at RTP.

(14) Purchasing related to valves and actuators replacement for AWT.

(15) Additional supplies for new regulations and preparation for new permit requirements.

Exhibit E-2

South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering
For the Period Ended May 31, 2021
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	196,836	138,712	58,124	70.5%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	103,621	75,681	27,940	73.0%
	Total Payroll Costs	300,457	214,393	86,064	71.4%
Other Expenses					
01-5022-03-00-00	Miscellaneous Expense	3,184	2,443	741	76.7%
01-5023-03-00-00	Office Supplies - All	208	31	177	14.9%
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	275	1,969	12.3%
01-5037-03-00-00	Office Equipment	408	-	408	-
01-5039-03-00-00	Membership Dues/Fees	1,377	664	713	48.2%
01-5061-03-00-00	Mileage	510	47	463	9.1%
01-5309-03-00-00	Operating Leases	6,829	5,408	1,421	79.2%
01-5705-03-00-00	Monthly Car Allowance	4,200	3,861	339	91.9%
01-5802-03-00-00	Shipping/Freight	312	-	312	-
01-6500-03-00-00	IT Allocations in to PC's & Depts.	50,794	46,217	4,577	91.0%
	Total Other Expenses	76,810	58,946	17,865	76.7%
	Total Engineering Expenses	**377,267**	**273,338**	**103,930**	**72.5%**

Exhibit E-3

South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration
For the Period Ended May 31, 2021
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe						
01-6000-04-00-00	Regular Salaries-Admin or IT	944,542	826,076	118,466	87.5%	
01-6001-04-00-00	Overtime Salaries-Admin or IT	20,000	31,681	(11,681)	158.4%	(1)
01-6315-04-00-00	Comp Time - Admin	15,000	8,870	6,130	59.1%	
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	497,236	450,702	46,534	90.6%	
	Total Payroll Costs	1,476,778	1,317,330	159,448	89.2%	
Other Expenses						
01-6018-04-00-00	Public Notices/ Public Relations	-	2,180	(2,180)	-	(2)
01-6101-04-00-00	HR Recruitment & Employee Relations	26,500	26,437	63	99.8%	
01-6102-04-00-00	Subscriptions	2,040	1,917	123	94.0%	
01-6200-04-00-00	Management Support Services	102,000	46,402	55,598	45.5%	
01-6201-04-00-00	Audit	44,900	37,250	7,650	83.0%	
01-6202-04-00-00	Legal	200,000	301,596	(101,596)	150.8%	(3)
01-6204-04-00-00	Postage	4,000	861	3,139	21.5%	
01-6223-04-00-00	Office Supplies - Admin	6,120	3,474	2,646	56.8%	
01-6224-04-00-00	Office Equipment Admin or IT	1,000	1,854	(854)	185.4%	
01-6234-04-00-00	Memberships & Trainings	88,950	73,903	15,047	83.1%	
01-6239-04-00-00	Travel & Conference	10,965	4,319	6,646	39.4%	
01-6240-04-00-00	Scholarship Sponsorship		1,000	(1,000)	-	
01-6241-04-00-00	Education Reimbursement	3,000	1,500	1,500	50.0%	
01-6310-04-00-00	Miscellaneous	23,460	16,603	6,857	70.8%	
01-6311-04-00-00	Mileage	1,211	26	1,185	2.1%	
01-6317-04-00-00	Contract Services Misc	5,610	5,014	596	89.4%	
01-6500-04-00-00	IT Allocations in to PC's & Depts.	116,635	106,126	10,509	91.0%	
01-6601-04-00-00	Shipping/Freight	3,740	3,319	421	88.7%	
01-6705-04-00-00	Monthly Car Allowance	12,000	11,031	969	91.9%	
	Total Other Expenses	652,131	644,812	7,319	98.9%	
	Total Admin Expenses	**2,128,909**	**1,962,141**	**166,768**	**92.2%**	

(1) Overtime salary and comp should be considered together
(2) Publication fee for ordinance
(3) JPA Revision projected over budget for Legal line item

Exhibit E-4

South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
For the Period Ended May 31, 2021
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	93,909	92,292	1,617	98.3%
01-6001-05-00-00	Overtime Salaries-Admin or IT	-	-	-	-
01-6315-05-00-00	Comp Time - IT	5,000	-	5,000	-
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	49,437	50,354	(917)	101.9%
	Total Salary & Fringe	148,346	142,647	5,699	96.2%
Other Expenses					
01-6028-05-00-00	Small Tools & Supplies	1,000	-	1,000	-
01-6035-05-00-00	Training Expense	2,000	1,725	275	86.3%
01-6037-05-00-00	Office Equipment	600	-	600	-
01-6234-05-00-00	Memberships & Trainings	1,375	-	1,375	-
01-6239-05-00-00	Travel & Conference	1,750	-	1,750	-
01-6300-05-00-00	Software Maintenance Agreements	38,779	38,416	363	99.1%
01-6301-05-00-00	Hardware Maintenance Agreements	7,126	9,423	(2,297)	132.2%
01-6302-05-00-00	Cloud Subscriptions (Internet)	148,369	125,407	22,962	84.5%
01-6303-05-00-00	Telecommunications	150,534	130,103	20,431	86.4%
01-6305-05-00-00	IT Professional Services	108,060	113,636	(5,576)	105.2%
01-6306-05-00-00	Small Hardware Purchases (< $5k)	29,200	18,864	10,336	64.6%
01-6307-05-00-00	Small Software Purchases & Licenses (<$5k)	26,908	25,007	1,901	92.9%
01-6308-05-00-00	IT Memberships	160	-	160	-
01-6309-05-00-00	Operating Leases	55,200	51,278	3,922	92.9%
01-6310-05-00-00	Miscellaneous	5,000	-	5,000	-
01-6312-05-00-00	Computer & Photocopy Supplies	-	2,633	(2,633)	-
	Total Other Expenses	576,061	516,493	59,568	89.7%
	Total Expenses before Allocation	**724,407**	**659,140**	**65,267**	**91.0%**
IT Allocations (Out) to PC's & Depts					
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(724,407)	(659,140)	(65,267)	91.0%
	Total IT Allocations (Out) to PC's & Depts	(724,407)	(659,140)	(65,267)	91.0%

Agenda Item 4F

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: May 2021 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 May, 2021

Excursion, Complaint, and Violation Events

Events	CTP	RTP	JBL	Totals
Odor	0	0	0	0
Noise	0	0	0	0
Spills	1(1)	0	0	1
Violations	0	0	0	0
Others	0	0	0	0

(1) CTP Export Line Leak on 5-5-2021.

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.69	7.41	6.26	0.95	17.31
Effluent (mgd)	1.99	1.44	6.26	2.15	11.84
Peak Flow (mgd)	8.09	16.71	11.13	7.68	43.61
Influent BOD (mg/l)	271	247	300	354	
Influent TSS (mg/l)	385	340	689	528	
Effluent BOD (mg/l)	7.2	4.2	7.2	8.2	
Effluent TSS (mg/l)	9.0	5.4	7.1	8.1	
Effluent Turbidity (NTU)	3.1	3.7	3.5	3.8	

(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)	1.03	5.97		7.00
Days of Operation (days)	31	31		
Total Flow (million gallons)	32.0	185.0		217.0
Plant Irrigation (million gallons)	0.00	0.07	0.25	
AWT Time Online (%)	93.0	98.0		

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 May, 2021 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		792.1	0.0	792.1
Nursery Products (tons)		379.0	705.7	1,084.6
Prima Deshecha (tons)		71.6	182.6	254.2
Other:_____ (tons)		0.0	0.0	0.0
Total Processed (tons)		1,242.6	888.3	2,130.9

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	137	387	248	772
Corrective Maintenance	16	118	112	246

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	0	0	0
Residents	0	0	0	0
Others	0	0	22	22
Tours #/Visitors	1	0	0	1

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	6.0	23.8	28.6	58.4

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	NA	44.1	NA	44.1
Utility Power Purchase (kWh)	NA	368,931	106,125	475,056
Cogen Power (kWh)		262,828(1)	460,907	723,735
Natural Gas (Dth)	NA	1,423	1,383	2,806
Digester Gas to Engine (scfm)		3,939,799	5,891,385	9,831,184
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		6,138,102	204,847	6,342,949
Digester Gas Power Savings		(1)		

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

(1) SCE's billing system is being overhauled and billings for RTP are not available at this time. Power data are direct meter reads by SOCWA staff.

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report May, 2021 (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	1.565	55.82%				1.57
EBSD	0.067	2.40%				0.07
SCWD	1.171	41.77%		1.660	23.03%	2.83
MNWD	0.000	0.00%	7.41	1.400	19.43%	8.81
CSJC				2.285	31.71%	2.29
SMWD				1.862	25.83%	1.86
Total	2.804	100.00%	7.41	7.207	100.00%	17.42

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.57	25.32%	1.57	
EBSD				0.07	1.09%	0.07	
SCWD	1.87	18.38%		0.23	3.69%	2.09	Includes Desalters
MNWD	1.53	15.10%		1.44	23.35%	2.98	
ETWD				1.46	23.66%	1.46	Direct Outfall Only
CSJC	2.75	27.08%				2.75	Incudes Desalter
SMWD	1.88	18.48%				1.88	Includes Chiquita
CSC	2.13	20.97%				2.13	Direct Outfall Only
IRWD				1.42	22.89%	1.42	Direct Outfall Only
Total	10.15	100.00%	10.87	6.18	100.00%	16.33	

SOCWA Operational Report May, 2021 (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%	2.070	33.06%	2.285	31.71%	2.19	30.97%
MNWD	3.00	23.08%	1.400	22.36%	1.400	19.43%	1.40	19.78%
SCWD	3.75	28.85%	1.691	27.01%	1.660	23.03%	1.67	23.67%
SMWD	2.25	17.31%	1.100	17.57%	1.862	25.83%	1.81	25.58%
Total	13.00	100.00%	6.261	100.00%	7.207	100.00%	7.08	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%	5,706	27.34%	6,907	23.15%	6,052	25.36%
MNWD	8,340	21.62%	3,859	18.49%	6,766	22.68%	6,014	25.21%
SCWD	7,715	20.00%	5,181	24.83%	7,168	24.02%	5,985	25.09%
SMWD	10,946	28.38%	6,122	29.34%	8,998	30.16%	5,809	24.34%
Total	38,573	100.00%	20,868	100.00%	29,840	100.00%	23,860	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	16.62%	2.867	23.61%	2.128	20.97%	2.766	23.36%
CSJC	11.08%	2.460	20.26%	2.749	27.08%	2.517	21.26%
MNWD(3)	15.51%	2.115	17.42%	1.533	15.10%	2.268	19.15%
SCWD	12.47%	1.845	15.20%	1.865	18.38%	1.888	15.94%
SMWD	44.32%	2.855	23.51%	1.876	18.48%	2.402	20.29%
Total	100.00%	12.142	100.00%	10.151	100.00%	11.842	100.00%

(1) Influent billing meter summary:

a. CSJC is metered daily in the collection system. The area-velocity meter has an accuracy of +/- 20%.

b. MNWD is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.

c. SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.

d. 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.

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%	1.620	60.25%	1.565	55.82%	1.565	58.46%
EBSD	0.20	2.99%	0.050	1.86%	0.067	2.40%	0.079	2.94%
SCWD	2.00	29.85%	1.019	37.90%	1.171	41.77%	1.033	38.60%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	2.689	100.00%	2.804	100.00%	2.676	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	0.01422	0.1874%	0.0000	0.0122	0.0122	0.1621%	0.0131	0.1690%
EBSD	0.00044	0.0058%	0.0000	0.0005	0.0005	0.0070%	0.0007	0.0086%
SCWD	0.00893	0.1177%	0.0000	0.0091	0.0091	0.1213%	0.0086	0.1107%
ETWD	0.01411	0.1859%	0.0000	0.0141	0.0141	0.1871%	0.0152	0.1959%
MNWD	7.55200	99.5033%	7.4121	0.0725	7.4846	99.5225%	7.7322	99.5158%
Total	7.58970	100.0000%	7.4121	0.1084	7.5205	100.0000%	7.7698	100.0000%

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

SOCWA Operational Report April, 2021 (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%	5,770	15.34%	118,639	9.65%	137,643	12.74%
EBSD	295	0.59%	180	0.48%	3,835	0.31%	6,977	0.65%
SCWD	4,480	8.96%	3,626	9.64%	86,112	7.00%	89,213	8.26%
ETWD	10,200	20.41%	5,701	15.15%	161,531	13.14%	160,559	14.86%
MNWD	29,395	58.82%	22,346	59.39%	859,249	69.89%	686,159	63.50%
Total	49,975	100.00%	37,623	100.00%	1,229,366	100.00%	1,080,550	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	11.000%	1.89	17.73%	1.576	23.70%	1.565	16.54%
EBSD	0.780%	0.05	0.47%	0.051	0.77%	0.080	0.84%
ETWD	16.302%	2.46	23.08%	1.611	24.23%	2.110	22.31%
IRWD	15.760%	2.48	23.26%	1.926	28.96%	2.544	26.90%
MNWD	43.848%	3.08	28.89%	1.386	20.85%	2.827	29.89%
SCWD	12.310%	0.70	6.57%	0.099	1.48%	0.333	3.52%
Total	100.000%	10.66	100.00%	6.649	100.00%	9.458	100.00%

Select Critical Equipment Repairs

JBL - PC2

Capped failed bypass pipe between Digester Nos. 3 and 4.
Cleaned Digester No. 3
Removed and replaced failed bearing for Centrifuge 2 sludge conveyor.
Troubleshot the new Digester No. 4 Chopper Pump.
Replaced failed stairs on 9-Side Grit Pit with a new aluminum stair system.

CTP - PC15

Replaced failed bearing on Center Rotoscreen and aligned the drum.
Repaired leaking export sludge force main near Alicia Parkway.
Replaced corroded and failing concrete pad for the DAFT Recirculation Pump. This included removing and reinstalling the pump.
Supported Digester No. 3 cleaning at JBL.
Removed multiple conduits and relocated the scum line from the pipe gallery to support ongoing construction.

RTP - PC17

Replaced stuck check valve on Digester No. 3 Recirculation Pump and replaced failed hose connections and a temperature gauge.
Replaced failing Grit Separator.
Supported Digester No. 3 cleaning at JBL.

Support Services - ALL PC'S

Performed SCADA screen upgrades and modernizations at all three treatment plants to support construction.
Audited emergency backup PLC equipment for Gas Skid at Regional Treatment Plant.
Troubleshot DO averaging program at CTP.
Replaced defective selector switch contact block on MCC for Skimmer Controls at RTP.
Troubleshot primary gallery roof fan, which was tripping on overcurrent at RTP.
Installed new conduit and wiring for Headworks Hydrogritter at Regional Treatment Plant.
Repaired defective hour meters on Applied Water Pump No. 1 and Hot Water Recirculation Pump at RTP.
Supported Digester No. 3 cleaning at JBL.
Calibrated and cleaned a problematic nitrate sensor at JBL.
Replaced a failing Hach SC200 screen display on the Primary Odor Scrubber at JBL.
Replaced the control transformer inside Polymer Recirculation cabinet, which had failed due to ground fault at JBL.
Installed an oxide varistor on the RAS Bubbler Control Panel at JBL to protect the equipment from stray currents at JBL.
Replaced failed DO Probe and sensor caps on East 2B Aeration Tank at CTP.

Select Critical Equipment Repairs (cont'd)

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

Troubleshot West 2b Aeration flowmeter at Coastal Treatment Plant.
Replaced obsolete incandescent bulbs with energy-efficient LEDs on West Sludge Grinder Panel at CTP.
Performed 20k hour cogen service maintenance at RTP.
Replaced CEMS air compressor belts, which had become brittle and broken at RTP.

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

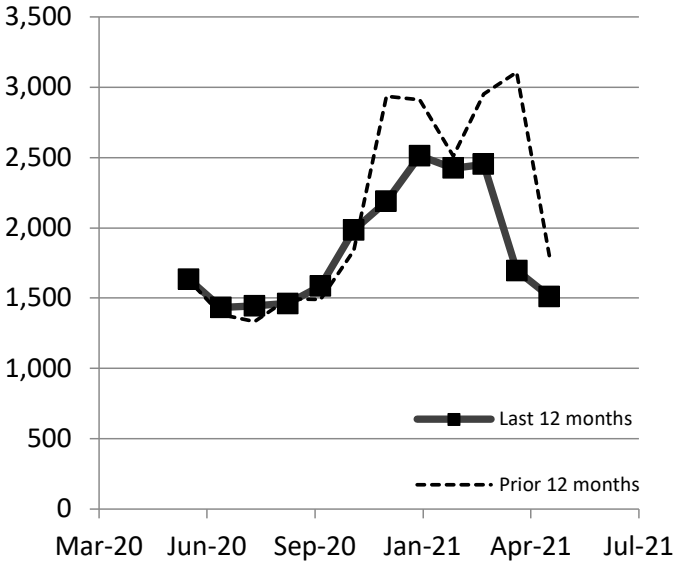
SOCWA Ocean Outfall Discharges by Agency

SOCWA Operational Report May, 2021 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.57	25.32%	1.57
EBSD			0.07	1.09%	0.07
SCWD	1.87	18.38%	0.23	3.69%	2.09
MNWD	1.53	15.10%	1.44	23.35%	2.98
ETWD			1.46	23.66%	1.46
CSJC	2.75	27.08%			2.75
SMWD	1.88	18.48%			1.88
CSC	2.13	20.97%			2.13
IRWD			1.42	22.89%	1.42
Total	10.15	100.00%	6.18	100.00%	16.33
	or Acre-Feet per year equivalent				18,294

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

May-21	1,512
Apr-21	1,696
Mar-21	2,453
Feb-21	2,425
Jan-21	2,514
Dec-20	2,189
Nov-20	1,985
Oct-20	1,586
Sep-20	1,461
Aug-20	1,445
Jul-20	1,434
Jun-20	1,635
Total	22,335



Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

May 2021

	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
DATE	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
05/01/21	No Flow			<0.3	1.132	12.3	4.1	<0.1	0.400	5.3	4.0	0.1	1.361	14.3	9.0	0.2	0.789	0.556	0.131	4.369	0.00
05/02/21	3.025	16.0	5.9	<0.3	1.344	12.0		0.1	0.74	3.6	4.0	<0.1	1.863	3.4	6.0		0.789	0.556	0.124	8.441	0.00
05/03/21	0.528	15.0	3.8		1.957	13.0		0.1	2.290	10.8	5.0	<0.1	2.715	2.4	4.0	<0.1	0.790	0.555	0.151	8.986	0.00
05/04/21	No Flow				0.848	11.3	4.8	0.1	3.340	7.2	3.0	0.1	0.829	17.0	8.0	<0.1	0.789	0.554	0.133	6.493	0.00
05/05/21	No Flow				1.007	14.8	4.2	<0.1	0.940	6.9	3.0	<0.1	0.588	5.1	4.0	0.1	0.789	0.551	0.133	4.008	0.00
05/06/21	No Flow				1.382	12.8	4.0	<0.1	0.750	5.1	3.0	0.1	1.563	8.1	6.0	0.1	0.789	0.549	0.128	5.161	0.00
05/07/21	No Flow				0.753	8.8	3.3	<0.1	0.680	4.7	2.0	0.1	2.362	8.9	6.0	0.1	0.789	0.548	0.137	5.269	0.00
05/08/21	No Flow				1.380	9.3	4.3	<0.1	0.690	4.7	3.0		1.409	11.2	8.0		0.789	0.547	0.129	4.944	0.00
05/09/21	No Flow				1.406	10.2		0.1	0.760	5.4	5.0	<0.1	2.451	4.6	6.0		0.790	0.546	0.111	6.064	0.00
05/10/21	No Flow				1.776	9.8		<0.1	3.170	6.6	5.0	<0.1	1.911	5.8	5.0	<0.1	0.789	0.545	0.122	8.313	0.00
05/11/21	No Flow				1.274	12.6	4.6	0.1	0.920	6.6	4.0	<0.1	1.633	6.8	7.0	<0.1	0.789	0.544	0.131	5.291	0.00
05/12/21	No Flow				1.732	9.5	3.5	<0.1	0.850	5.1	3.0	0.2	1.718	5.4	5.0	0.1	0.789	0.543	0.096	5.728	0.00
05/13/21	No Flow				1.682	7.5	3.1	<0.1	1.040	5.3	4.0	0.1	2.656	10.5	8.0	0.1	0.783	0.543	0.137	6.841	0.00
05/14/21	No Flow				0.661	8.3	2.5	<0.1	0.850	4.5	4.0	0.1	1.426	10.8	7.0	0.1	0.692	0.542	0.155	4.326	0.00
05/15/21	No Flow				1.214	11.4	4.8	<0.1	1.030	3.9	3.0		2.131	7.9	11.0		0.790	0.541	0.141	5.847	0.00
05/16/21	No Flow				1.569	7.2		0.1	1.840	4.8	6.0	<0.1	2.379	4.0	7.0		0.789	0.541	0.172	7.290	0.01
05/17/21	No Flow				4.372	10.2		<0.1	2.870	6.2	5.0	<0.1	2.478	8.2	7.0	<0.1	0.790	0.540	0.101	11.151	0.03
05/18/21	No Flow				1.955	11.0	4.3	0.1	1.780	5.4	5.0	<0.1	1.278	11.1	11.0	1.0	0.424	0.539	0.152	6.128	0.00
05/19/21	No Flow				3.198	11.6	5.1	<0.1	1.960	4.2	4.0	<0.1	1.642	6.5	8.0	0.1	0.396	0.539	0.163	7.898	0.00
05/20/21	No Flow				0.725	8.2	4.2	<0.1	1.920	5.1	3.0	0.1	2.419	22.2	10.0	0.1	0.712	0.538	0.139	6.453	0.00
05/21/21	No Flow				0.811	15.8	6.5	<0.1	1.920	4.5	4.0	0.1	1.929	20.6	11.0	0.1	0.790	0.538	0.122	6.110	0.00
05/22/21	No Flow				1.542	8.8	3.6	<0.1	1.900	4.1	4.0		1.220	19.8	12.0		0.790	0.536	0.104	6.092	0.00
05/23/21	No Flow				1.847	7.8		<0.1	2.150	4.6	6.0	<0.1	2.141	3.2	6.0		0.789	0.537	0.007	7.471	0.00
05/24/21	No Flow				1.950	6.6		<0.1	2.960	6.6	7.0	<0.1	2.500	23.4	9.0	0.1	0.790	0.536	0.103	8.839	0.00
05/25/21	No Flow				1.391	10.2	3.8	<0.1	0.880	6.0	8.0	<0.1	1.826	11.6	8.0	0.1	0.779	0.536	0.127	5.539	0.00
05/26/21	No Flow				0.932	8.8	3.2	0.1	0.860	5.8	4.0	<0.1	1.312	3.5	3.0	0.1	0.789	0.535	0.107	4.535	0.00
05/27/21	No Flow				1.284	8.8	3.8	<0.1	0.680	5.9	4.0	0.1	1.735	5.6	7.0	0.1	0.789	0.535	0.158	5.181	0.00
05/28/21	No Flow				1.054	8.0	3.7	<0.1	1.220	4.7	3.0	0.1	2.013	4.0	6.0	0.2	0.789	0.535	0.124	5.735	0.00
05/29/21	No Flow				0.987	8.5	3.6	<0.1	0.700	5.2	4.0		1.764	6.3	9.0		0.789	0.534	0.129	4.903	0.00
05/30/21	No Flow				1.958	7.0		0.1	1.330	3.5	4.0	<0.1	1.587	5.0	5.0		0.789	0.534	0.147	6.345	0.00
05/31/21	No Flow				0.222	7.6		<0.1	1.330	4.4	3.0	<0.1	2.842	2.6	4.0	<0.1	0.788	0.533	0.115	5.830	0.00
AVG	0.115	15.5	4.9	<0.3	1.463	10.0	4.0	<0.1	1.444	5.4	4.2	<0.1	1.861	9.0	7.2	<0.2	0.759	0.542	0.127	6.309	
TOTAL	3.55				45.35				44.75				57.68				23.52	16.81	3.929	195.58	0.04

Unified Beach Monitoring #1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: May 2021
REPORT DUE: July 1 2021
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: Low tide 1135
Weather: Overcast
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F	Water Condition	Water Outlet	Birds
S3	05/04/21	1030	<10	<10	2	None	None	None	None	Green	60	Clear		
S4	05/04/21	1010	<10	10	<2	None	None	None	None	Green		Clear		
S5	05/04/21	945	<10	<10	<2	None	None	None	None	Green		Clear		
S6	05/04/21	917	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	05/04/21	914	<10	10	<2	None	None	None	None	Green		Clear		
S7	05/04/21	910	<10	10	<2	None	None	None	None	Green		Clear		
S8	05/04/21	855	20	<10	<2	None	None	None	None	Green	61	Clear		
S9	05/04/21	849	90	30	<2	None	None	None	None	Green		Clear		
ACM1	05/04/21	845	700	140	80	None	None	None	None	Green	60	Clear	Flowing	
S10	05/04/21	819	<10	<10	<2	None	None	None	None	Green		Clear		
S11	05/04/21	810	<10	<10	<2	None	None	None	None	Green		Clear		
S12	05/04/21	758	<10	<10	<2	None	None	None	None	Green	60	Clear		

RECREATIONAL WATER LIMITATIONS:Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exce 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: May 2021
REPORT DUE: July 1, 2021
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 1031
Weather: Overcast
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F	Water Condition	Water Outlet	Birds
S3	05/12/21	0945	10	10	4	None	None	None	None	Green	69	Slightly Turbid		
S4	05/12/21	0925	<10	<10	4	None	None	None	None	Green		Slightly Turbid		
S5	05/12/21	0910	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S6	05/12/21	0859	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
WEST	05/12/21	0855	<10	10	4	None	None	None	None	Green		Slightly Turbid		
S7	05/12/21	0850	30	<10	<2	None	None	None	None	Green		Slightly Turbid		
S8	05/12/21	0845	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S9	05/12/21	0830	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
ACM1	05/12/21	0825	10	<10	2	None	None	None	None	Green		Slightly Turbid		
S10	05/12/21	0815	30	10	2	None	None	None	None	Green		Slightly Turbid		
S11	05/12/21	0805	<10	10	<2	None	None	None	None	Green		Slightly Turbid		
S12	05/12/21	0800	<10	<10	2	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.

Unified Beach Monitoring #3

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: May 2021
REPORT DUE: July 1, 2021
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 1010
Weather: Overcast
COMMENTS:

0.0

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	05/19/21	750	<10	10	<2	None	None	None	None	Green	60	Clear		
S4	05/19/21	1025	10	<10	<2	None	None	None	None	Green		Clear		
S5	05/19/21	1010	<10	<10	<2	None	None	None	None	Green		Clear		
S6	05/19/21	950	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	05/19/21	945	<10	<10	<2	None	None	None	None	Green		Clear		
S7	05/19/21	935	<10	<10	<2	None	None	None	None	Green		Clear		
S8	05/19/21	930	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	05/19/21	920	<10	<10	10	None	None	None	None	Green		Clear		
ACM1	05/19/21	915	<10	<10	<2	None	None	None	None	Green		Clear		
S10	05/19/21	850	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S11	05/19/21	840	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S12	05/19/21	825	10	10	4	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 exce 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: May 2021
REPORT DUE: July 1, 2021
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

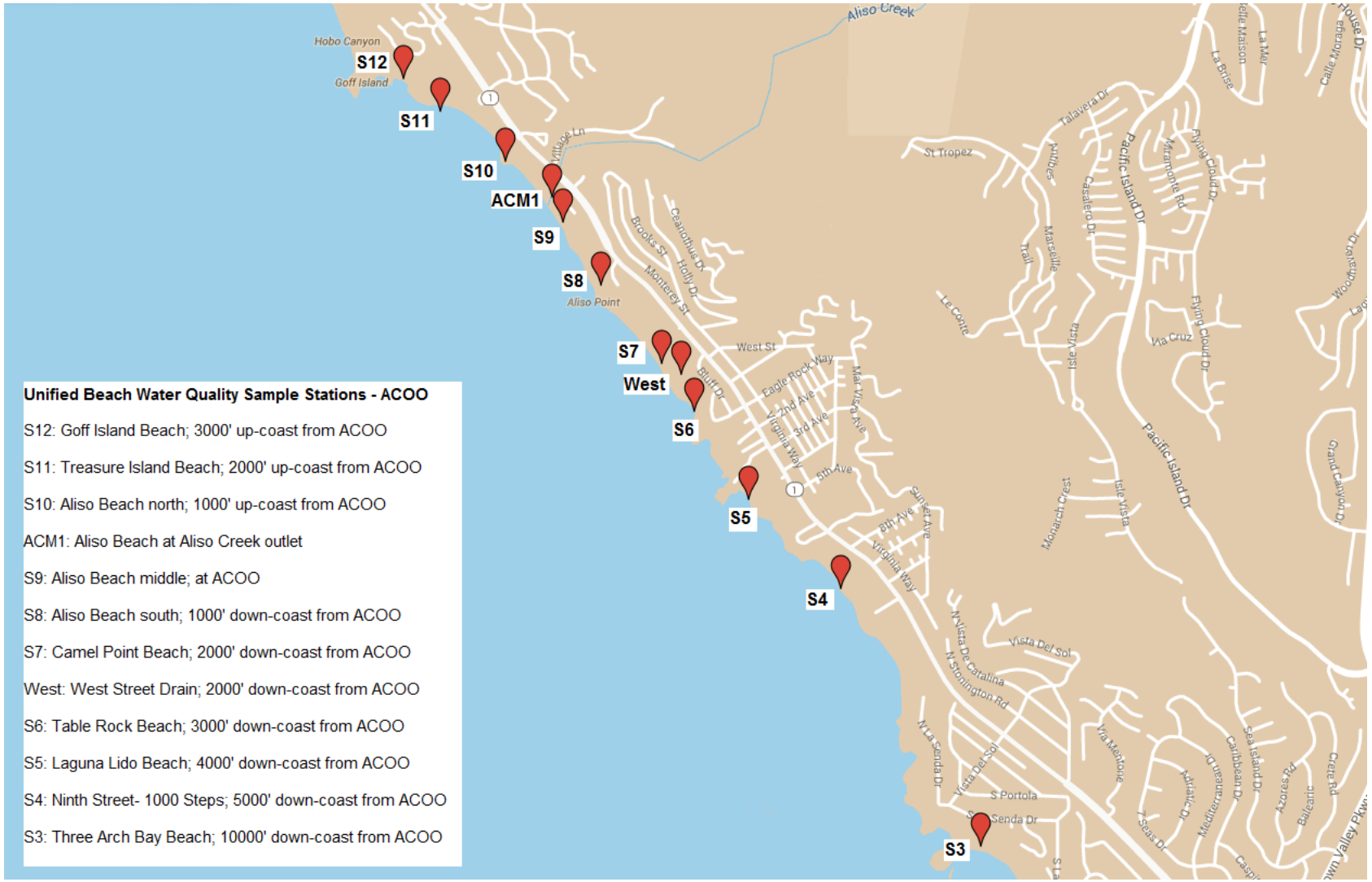
REPORT FREQUENCY: Monthly
EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
SAMPLES COLLECTED BY: SOCWA Lab
SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 1004
Weather: Partly Cloudy
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	05/26/21	750	<10	<10	2	None	None	None	None	Green	62	Clear		
S4	05/26/21	1020	10	<10	<2	None	None	None	None	Green		Clear		
S5	05/26/21	1000	<10	<10	<2	None	None	None	None	Green		Clear		
S6	05/26/21	940	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	05/26/21	935	20	<10	<2	None	None	None	None	Green		Clear		
S7	05/26/21	930	<10	<10	<2	None	None	None	None	Green		Clear		
S8	05/26/21	920	<10	<10	2	None	None	None	None	Blue		Clear		
S9	05/26/21	915	10	<10	<2	None	None	None	None	Green		Clear		
ACM1	05/26/21	910	10	<10	<2	None	None	None	None	Green		Clear		
S10	05/26/21	845	10	<10	<2	None	None	None	None	Green		Clear		
S11	05/26/21	820	<10	10	<2	None	None	None	None	Green		Clear		
S12	05/26/21	810	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 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 ACOO
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: May 2021
REPORT DUE: July 1, 2021
SAMPLE SOURCE: Receiving water, nearshore and offshore
EXACT SAMPLE POINTS: As specified in permit
SAMPLES COLLECTED BY: Seaventures/SOCWA staff
SAMPLES ANALYZED BY: SOCWA Lab

REPORT FREQUENCY: Monthly

SAMPLING FREQUENCY: Monthly
TYPE OF SAMPLE: Grab

Comments: High Tide 526

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris
A-1	Surface	05/05/21	<2	<2	<2	803	0	0
A-1	Mid depth	05/05/21	<10	<10	<10			
A-2	Surface	05/05/21	<2	<2	<2	749	0	0
A-2	Mid depth	05/05/21	<2	<2	<2			
A-3	Surface	05/05/21	<10	<10	<10	756	0	0
A-3	Mid depth	05/05/21	<2	<2	<2			
A-4	Surface	05/05/21	<2	<2	<2	805	0	0
A-4	Mid depth	05/05/21	<10	<10	<10			
A-5	Surface	05/05/21	<2	<2	<2	800	0	0
A-5	Mid depth	05/05/21	<2	<2	<2			
B-1	Surface	05/05/21	<10	<10	<10	744	0	0
B-1	Mid depth	05/05/21	<2	<2	<2			
B-2	Surface	05/05/21	<2	<2	<2	811	0	0
B-2	Mid depth	05/05/21	10	<10	<10			
N1	Surface	05/05/21	<2	<2	<2	827	0	0
N2	Surface	05/05/21	<2	<2	<2	825	0	0
N3	Surface	05/05/21	<2	<2	<2	824	0	0
N4	Surface	05/05/21	<2	<2	<2	823	0	0
N5	Surface	05/05/21	6	<2	<2	820	0	0
N6	Surface	05/05/21	2	<2	<2	819	0	0
N7	Surface	05/05/21	2	<2	<2	818	0	0

0 - None
1 - Mild
2 - Moderate
3 - Severe

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

Compliance Summary Report
Aliso Creek Ocean Outfall 2021

ACOO Permit Order No. R9-2012-0013							
Agency - Facility	**Violation Date**	**Constituent**	**Effluent Limit Violation**	**Units**	**Permit Limit**	**Reported Value**	**Potential Fine**
No violations during this monitoring period.							

SOCWA and MEMBER AGENCY FACILITIES
ACOO Spill / Overflow Report Log - 2021
Order No. R9-2012-0013 ~ NPDES Permit No. CA0107611

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
SOCWA	SOCWA	436	Raw Sewage	Spill was located on the export sludge main. Due to ongoing work on the main, the spill was identified immediately, stopped, and contained. Contaminated soil was removed for offsite disposal.	None	5/5/2021	5/5/2021

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

May 2021

	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC Desalter	SCWD Desalter	SJCOO	Rain
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	Fall
DATE	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	inches
05/01/21	6.700	7.1	7.6	0.1	2.362				0.013				1.453				0.514	0.204	12.140	0.00
05/02/21	7.190	7.3	7.8		2.083				0.000				1.470				0.514	0.206	11.140	0.00
05/03/21	7.010	7.9	6.7	<0.1	2.719	7.2	8.0	<0.1	0.013	3.2	8.6	0.1	0.100	11.2	7.9	ND	0.513	0.205	11.460	0.00
05/04/21	6.810	7.6	6.0	<0.1	1.794	5.6	8.0	<0.1	0.013	3.8	7.2	<0.1	0.157	10.6	8.5	ND	0.512	0.204	11.410	0.00
05/05/21	6.560	6.6	7.1	0.1	2.342	5.8	7.0	<0.1	0.050	3.2	3.7	<0.1	0.144	6.6	5.8	ND	0.513	0.208	9.720	0.00
05/06/21	6.560	8.6	6.7	0.1	1.913	6.2	9.0	<0.1	0.022	2.6	3.3	<0.1	0.155	9.8	8.2	ND	0.512	0.205	9.540	0.00
05/07/21	6.710	6.7	4.5	0.2	1.947	5.2	7.0	<0.1	0.014	5.9	3.8	<0.1	0.101	11.2	9.2	ND	0.439	0.203	9.490	0.00
05/08/21	6.750	7.5	6.5		2.061				0.000				0.014				0.428	0.208	9.300	0.00
05/09/21	6.570	6.4	7.2		2.026				0.000				0.012				0.437	0.204	9.240	0.00
05/10/21	6.470	8.8	6.7	<0.1	2.340	6.8	7.0	<0.1	0.013	16.0	7.4	<0.1	0.018	11.6	8.2	ND	0.437	0.204	9.010	0.00
05/11/21	6.900	7.8	6.3	<0.1	2.499	6.2	8.0	<0.1	0.022	2.8	7.8	<0.1	0.008	15.2	10.6	ND	0.447	0.208	9.060	0.00
05/12/21	6.870	7.4	5.3	0.1	1.858	6.2	7.0	<0.1	0.012	3.8	4.4	0.3	0.023	10.8	8.2	ND	0.456	0.205	9.490	0.00
05/13/21	6.620	6.7	6.3	0.1	1.827	6.0	6.0	<0.1	0.011	3.0	3.0	<0.1	0.002	14.8	9.6	ND	0.456	0.208	9.460	0.00
05/14/21	6.710	7.3	7.1	0.2	2.195	7.1	6.0	<0.1	0.027	2.4	3.6	<0.1	0.009	5.2	4.8	ND	0.455	0.204	9.270	0.00
05/15/21	6.860	7.3	10.5		2.064				0.000				0.044				0.456	0.205	9.620	0.00
05/16/21	6.600	8.8			2.138				0.000				0.009				0.456	0.208	9.320	0.01
05/17/21	6.740	12.6	8.4	<0.1	2.296	8.4	6.0	<0.1	0.013	3.0	7.5	<0.1	0.059	9.4	5.9	ND	0.456	0.204	8.840	0.03
05/18/21	6.750	9.4	10.3	<0.1	2.533	6.7	7.0	<0.1	0.014	2.2	8.1	<0.1	0.022	10.8	7.8	ND	0.456	0.208	9.130	0.00
05/19/21	6.550	8.7	10.6	<0.1	2.428	7.9	7.0	<0.1	0.021	1.8	2.7	0.1	0.021	5.6	5.4	ND	0.456	0.204	9.620	0.00
05/20/21	6.650	6.2	9.3	0.1	2.022	12.2	8.0	<0.1	0.019	2.8	2.6	<0.1	0.027	7.8	7.0	ND	0.456	0.204	9.240	0.00
05/21/21	6.790	7.7	8.5	0.1	2.169	11.5	8.0	<0.1	0.019	2.0	2.6	<0.1	0.035	6.4	6.0	ND	0.455	0.208	9.740	0.00
05/22/21	6.580	5.4	6.5		2.777				0.000				0.062				0.456	0.204	9.450	0.00
05/23/21	6.620	7.5	11.0		2.036				0.000				0.032				0.457	0.203	8.960	0.00
05/24/21	6.520	7.8	8.6	<0.1	2.209	10.2	8.0	<0.1	0.018	3.2	6.8	0.1	0.009	6.4	5.5	ND	0.456	0.203	9.440	0.00
05/25/21	6.650	6.0	7.3	<0.1	2.239	9.8	7.0	<0.1	0.020	2.8	8.2	<0.1	0.027	12.4	10.2	ND	0.456	0.205	9.320	0.00
05/26/21	6.630	6.5	5.7	<0.1	2.241	9.3	6.0	<0.1	0.027	1.8	3.3	<0.1	0.016	12.0	9.5	ND	0.457	0.208	9.590	0.00
05/27/21	6.540	6.1	6.6	0.1	1.782	9.9	8.0	<0.1	0.013	2.0	3.3	<0.1	0.010	12.2	9.6	ND	0.456	0.203	9.420	0.00
05/28/21	6.270	6.1	6.7	0.1	2.767	7.7	6.0	<0.1	0.022	2.4	3.4	<0.1	0.012	7.2	6.1	ND	0.457	0.207	9.870	0.00
05/29/21	6.390	6.0	7.3		0.778				0.000				0.026				0.457	0.204	8.780	0.00
05/30/21	6.440	7.2	6.2		1.765				0.000				0.028				0.457	0.204	8.380	0.00
05/31/21	6.280	7.7	5.4	<0.1	1.769	6.8	6.0	<0.1	0.030	3.6	6.1	<0.1	0.016	8.8	6.3	ND	0.456	0.207	8.960	0.00
AVG	6.655	7.4	7.4	<0.1	2.128	7.7	7.1	<0.1	0.014	3.5	5.1	<0.1	0.133	9.8	7.6	ND	0.464	0.205	9.594	
TOTAL	206.290				65.979				0.426				4.121				14.389	6.365	297.410	0.04

Unified Beach Monitoring #1

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: May 2021
REPORT DUE: July 1, 2021
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 536
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	05/05/21	901	<20	<20	<2	None	None	None	None	Green	64	Turbid		
S1	05/05/21	826	<20	<20	<2	None	None	None	None	Green		Turbid		
S2	05/05/21	815	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB5	05/05/21	805	<20	<20	<2	None	None	None	None	Green		Turbid		
S3	05/05/21	830	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	05/05/21	836	<20	<20	<2	None	None	None	None	Green		Turbid		
S5	05/05/21	845	<20	<20	<2	None	None	None	None	Green	64	Turbid		
DSB1	05/05/21	851	<20	<20	<2	None	None	None	None	Green		Turbid		
SJC1	05/05/21	900	<100	<100	<10	None	None	None	None	Green		Turbid		

RECEIVING WATER LIMITATIONS:Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exce 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: May 2021
REPORT DUE: July 1, 2021
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 918
Weather: Drizzle
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	05/10/21	840	20	<20	6	None	None	None	None	Green	64	Turbid		
S1	05/10/21	905	<20	<20	<2	None	None	None	None	Green		Turbid		
S2	05/10/21	830	<20	<20	2	None	None	None	None	Green		Turbid		
DSB5	05/10/21	822	<20	<20	6	None	None	None	None	Green	65	Turbid		
S3	05/10/21	908	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	05/10/21	0922	<20	<20	<2	None	None	None	None	Green		Turbid		
S5	05/10/21	920	<20	<20	<2	None	None	None	None	Green	65	Turbid		
DSB1	05/10/21	916	<20	<20	<2	None	None	None	None	Green		Turbid		
SJC1	05/10/21	842	<100	<100	10	None	None	None	None	Green		Turbid		

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

Unified Beach Monitoring #3

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: May 2021
REPORT DUE: July 1, 2021
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 909
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	05/18/21	745	<20	<20	4	None	None	None	None	Green	64	Slightly Turbid		
S1	05/18/21	804	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	05/18/21	722	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
DSB5	05/18/21	715	<20	<20	<2	None	None	None	None	Green		Clear		
S3	05/18/21	806	<20	<20	6	None	None	None	None	Green		Slightly Turbid		
DSB4	05/18/21	807	<20	<20	8	None	None	None	None	Green		Slightly Turbid		
S5	05/18/21	815	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
DSB1	05/18/21	822	<20	<20	2	None	None	None	None	Green	65	Slightly Turbid		
SJC1	05/18/21	748	<100	<100	<10	None	None	None	None	Green	64	Slightly Turbid		

RECEIVING WATER LIMITATIONS:Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exce 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: May 2021
REPORT DUE: July 1, 2021
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 910
Weather: Fog
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	05/25/21	920	<20	<20	<2	None	None	None	None	Green		Turbid		
S1	05/25/21	935	<20	<20	<2	None	None	None	None	Green		Turbid		
S2	05/25/21	912	<20	<20	8	None	None	None	None	Green		Turbid		
DSB5	05/25/21	905	80	<20	48	None	None	None	None	Brown	63	Turbid		
S3	05/25/21	938	<20	200	<2	None	None	None	None	Green		Turbid		
DSB4	05/25/21	940	<20	<20	<2	None	None	None	None	Green		Turbid		
S5	05/25/21	950	<20	<20	2	None	None	None	None	Green	63	Turbid		
DSB1	05/25/21	957	<20	<20	2	None	None	None	None	Green	55	Turbid		
SJC1	05/25/21	922	<100	<100	<10	None	None	None	None	Green		Turbid		

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

Unified Beach Water Quality Sample Stations - SJCOO

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

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: May 2021 REPORT FREQUENCY: Monthly
REPORT DUE: July 1, 2021
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: High Tide 526

Station No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris
A-1	Surface	05/05/21	<2	<2	<2	923	0	0
A-1	Mid depth	05/05/21	<10	<10	<10			
A-2	Surface	05/05/21	<2	<2	<2	928	0	0
A-2	Mid depth	05/05/21	<10	<10	<10			
A-3	Surface	05/05/21	<2	<2	<2	935	0	0
A-3	Mid depth	05/05/21	<10	<10	<10			
A-4	Surface	05/05/21	<2	<2	<2	949	0	0
A-4	Mid depth	05/05/21	<10	<10	<10			
A-5	Surface	05/05/21	<2	<2	<2	944	0	0
A-5	Mid depth	05/05/21	<10	<10	<10			
B-1	Surface	05/05/21	<2	<2	<2	916	0	0
B-1	Mid depth	05/05/21	<10	<10	<10			
B-2	Surface	05/05/21	2	<2	<2	1002	0	0
B-2	Mid depth	05/05/21	<10	<10	<10			
N1	Surface	05/05/21	4	<2	<2	909	0	0
N2	Surface	05/05/21	<2	<2	<2	906	0	0
N3	Surface	05/05/21	<2	<2	<2	903	0	0
N4	Surface	05/05/21	<2	2	<2	857	0	0
N5	Surface	05/05/21	<2	<2	<2	855	0	0
N6	Surface	05/05/21	<2	<2	<2	853	0	0

0 - None
1 - Mild
2 - Moderate
3 - Severe

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

Compliance Summary Report
San Juan Creek Ocean Outfall 2021

SJCOO Permit Order No. R9-2012-0012							
Agency	**Violation Date**	**Constituent**	**Effluent Limit Violation**	**Units**	**Permit Limit**	**Reported Value**	**Potential Fine**
No violations during this reporting period.							

SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2021
Order No. R9-2012-0012 ~ 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 reporting period.							

Recycled Water Report

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SOCWA - RTP	1/7/2021	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - RTP	1/7/2021	TDS	12-Month	mg/L	1000	1141	
SOCWA - RTP	1/7/2021	Iron	12-Month	mg/L	0.30	0.47	
MNWD - 3A	1/11/2021	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	1/11/2021	TDS	12-Month	mg/L	1000	1112	
SOCWA - CTP	1/7/2021	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	2/2/2021	Manganese	12-Month	mg/L	0.05	0.13	
SOCWA - RTP	2/2/2021	TDS	12-Month	mg/L	1000	1170	
SOCWA - CTP	2/6/2021	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	3/2/2021	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - RTP	3/2/2021	TDS	12-Month	mg/L	1000	1160	
SOCWA - CTP	3/2/2021	Manganese	12-Month	mg/L	0.05	0.05	
SOCWA - CTP	4/6/2021	Manganese	12-Month	mg/L	0.05	0.05	
SOCWA - RTP	4/6/2021	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	4/6/2021	TDS	12-Month	mg/L	1000	1160	
MNWD - 3A	4/24/2021	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	4/24/2021	TDS	12-Month	mg/L	1000	1260	
SOCWA - RTP	4/30/2021	Coliform	30 Day Mean	MPN/100mL	23	25.6	
MNWD - 3A	5/24/2021	TDS	12-Month	mg/L	1000	1130	
MNWD - 3A	5/24/2021	TDS	Daily Maximum	mg/L	1100	1110	
MNWD - 3A	5/24/2021	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - RTP	5/4/2021	Iron	12-Month	mg/L	0.3	0.34	
SOCWA - RTP	5/4/2021	TDS	12-Month	mg/L	1000	1138	
SOCWA - RTP	5/4/2021	TDS	Daily Maximum	mg/L	1100	1260	
SOCWA - RTP	5/4/2021	Manganese	12-Month	mg/L	0.05	0.11	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: May 31, 2021

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	885	964	856	899	1,130	1,142	978
Chloride	mg/L	375	214	217	200	257	226	253	240
Sulfate	mg/L	400	212	293	237	207	310	340	273
Sodium	mg/L	None	196	163	153	190	188	180	147
Alkalinity	mg/L	None	-	-	-	-		259	220
Adjusted SAR	Ratio	None	50.42	4.71	4.78	5.78	4.18	4.21	4.01
Iron	mg/L	0.3	0.023	0.031	0.130	0.009	0.14	0.343	0.113
Manganese	mg/L	0.05	0.007	0.028	0.040	0.007	0.07	0.106	0.068
MBAS	mg/L	0.5	<0.03	0.13	0.13	0.26	ND	<0.08	<0.10
Boron	mg/L	0.75	0.320	0.357	0.347	0.400	0.39	0.380	0.30
Fluoride	mg/L	None	0.44	0.703	0.57	0.61	0.95	1.01	0.78
Total Organic Carbon	mg/L	None	8.7	11.9	11.6	7.6	3.1	10.7	8.3

*** 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)
2021

Agency	Facility or Region	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21	Nov '21	Dec '21	Annual Totals
CSJC 1	3-A Plant/MNWD	0.00	0.00	1.00	4.00	0.00								5.00
CSJC 2	Chiquita/SMWD	18.21	22.92	28.95	33.86	33.68								137.62
CSJC 3	Non-Domestic Well	0.00	0.00	0.05	15.85	35.83								51.73
ETWD	Region 8	53.03	75.50	79.89	171.14	198.26								577.82
IRWD														
[4]	IRWD - 8	66.48	39.90	59.73	129.00	147.62								442.74
[4]	IRWD - 9	23.71	19.32	36.02	78.54	78.94								236.54
SCWD	SOCWA CTP	68.70	42.73	52.98	106.27	98.15								368.83
MNWD	JRP	151.70	275.99	386.65	551.51	567.82								1933.66
	3-A Plant	59.99	0.00	0.00	5.83	143.27								209.09
[5]	CTP	29.42	2.50	2.92	10.48	6.02								51.34
SMWD	Oso Creek	148.61	121.98	141.01	126.41	145.30								683.32
	Chiquita	438.61	284.46	285.90	454.13	507.69								1970.78
	Nichols	1.61	1.50	1.71	1.67	1.89								8.38
TCWD	RRWRP	50.41	43.87	52.48	49.01	46.43								242.19
TOTALS		1110.47	930.66	1129.30	1737.71	2010.88								6919.02

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 4F

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report, April and May 2021
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

SOCWA adopted Pretreatment Ordinance 2020-1 on October 1, 2020. Member agencies (MAs) continue the process of amending their pretreatment ordinances. CSC and SCWD are the two remaining MAs in need of adopting the Ordinance amendments. SCWD and CSC Staff have confirmed plans to adopt the changes during their June meetings.

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:

CSJC/SMWD – SWD Permit Nos. CSJC-4-002-09-25 and SOCWA-4-001-08-25 - Two new permits will be issued to SMWD for discharge to sewer facilities associated with the following facilities: 1.) Groundwater Recovery Plant (GWRP) located at 32470 Paseo Adelanto and 2.) North Open Space Pump Station and Settling Basin located at 30291Camino Capistrano. In anticipation of SMWD annexing CSJC, SOCWA Staff is preparing to terminate existing permits issued to CSJC and to reissue new permits which replace CSJC with SMWD as the new operator and permit holder. The reissuance of permits has been reviewed by respective legal counsels.

CSJC/SMWD – NSWD Permit No. CSJC-N4-001-08-22 - Alipaz Diversion – Shortly after SMWD annexes CSJC, Staff will terminate the existing Alipaz Diversion permit and will reissue with SMWD replacing CSJC as co-issuer with SOCWA. Under the annexation, SMWD will assume CSJC's rights and obligations under this permit.

CSJC/SMWD – WD Permit No. CSJC-2-001-12-22 Rancho Mission Viejo Riding Park – In anticipation of SMWD annexing CSJC, Staff is in discussion with legal regarding re-issuance of a new permit replacing CSJC with SMWD as the new permit issuer.

CSC – WD Permit No. CSC-2-007-06-25 - Regenesis – At the request of the IU, the permit was modified in late May 2021 to increase the daily permitted flow from 500-1000 gpd at a discharge rate of no more than 10 gpm. If no adverse impacts to treatment facilities are experienced in a six-month time-frame, the permit may again be modified to increase the total daily flow limit to 1500 gpd.

CSC – WD Permit No. CSC-2-006-06-21 – SnowPure - The current WD Permit expires June 20, 2021. IU Staff submitted a renewal Permit Application on May 18, 2021. SOCWA Staff expects to issue a renewal permit with no major changes on-time.

Trainings and Committee Meetings Attended

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

SOCWA Staff attended the 2021 NACWA Pretreatment Virtual Workshop May 17-20, 2021. Staff led the EPA Region 9 breakout session as well as a roundtable discussion of "Zero Discharge & Non-Significant Categorical IUs."

Inspections

MNWD – On May 14, 2021, SOCWA Staff inspected NuVasive Orthopedics located at 100 Enterprise, Aliso Viejo, CA 92656 in response to a submitted WD Permit Application received May 10, 2021. Inspection findings confirmed that the site performed light passivation with no discharge from the process to the sewer. The site will be issued a Zero Categorical IU WD Permit.

CSC – On May 14, 2021, SOCWA Staff inspected SnowPure located at 130 Calle Iglesia, San Clemente, CA 92672. Inspection findings confirmed the need to renew the existing WD Permit which expires June 20, 2021.

CSC – On May 20, 2021, SOCWA Staff inspected Regenesis located at 1011 Calle Sombra #100, San Clemente, CA 92673. In response to a request to increase the daily permitted flow limit, IU Staff were directed to install a flow meter and regulator to limit discharge to no more than 10 gpm. SOCWA Staff verified the installation and performed an industrial wastewater inspection.

Summary of IWS Activities in the SOCWA Service Area - YTD through May 19, 2021

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSEs	DSEs	Closed	Enforcement	Total IUs
CLB (S)	0	3	2	5	8	110	25	0	0	128
CSC (S)	6	10	35	18	181	1295	58	0	0	1597
CSJC (S)	1	3	27	59	137	1666	38	0	1	1930
ETWD (M)	0	3	87	0	262	132	84	0	0	568
EBSD (U)	2	1	0	0	0	0	0	0	0	1
IRWD (S)	3	4	51	21	63	937	24	0		1100
MNWD (S)	32	4	123	39	629	2091	201	6	0	3087
SMWD (S)	26	6	19	20	209	790	79	5	0	1123
SCWD (S)	0	8	33	7	148	182	27	0	0	405
TCWD (S)	0	11	0	0	0	33		0	0	44
SOCWA (S)	0	8	1	0	0	0		0	0	9
Totals	70	61	378	169	1637	7236	535	11	1	**9992**

(S) = SOCWA conducts PT program NIWD = Non-industrial Waste Discharger YTD = Year to Date
(M) = MA conducts PT program /w SOCWA BMP = Best Management Practices OSE = Other Surveyed Establishment
(U) = Urban Diversion Only FSE = Food Service Establishment DSE = Dental Surveyed Establishment

Agenda Item 4G

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: June 2021 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 – Fiscal Year 20-21

   A eight (8) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing calculation 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 to 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. Fiscal Year Report on Key Operational Expenses

   These charts include tracking of monthly expenses for key operational expenses with estimated projections for the Fiscal Year. The key parameters that are being tracked are Electricity, Odor Control, Polymer, Biosolids, Maintenance expenses (not including SOCWA staff labor), small capital purchases, and safety.

4. Beach Ocean Monitoring Report

5. Recycled Water Report

6. Pretreatment Report

Fiscal impact

No change.

Recommended Action: Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report June, 2021

Excursion, Complaint, and Violation Events

Events	CTP	RTP	JBL	Totals
Odor	0	0	0	0
Noise	0	0	0	0
Spills	1(1)	0	0	1
Violations	0	0	0	0
Others	0	0	0	0

(1) CTP Export Line Leak on 6-10-2021.

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.78	7.54	6.18	1.01	17.51
Effluent (mgd)	1.88	1.71	6.18	1.84	11.60
Peak Flow (mgd)	6.44	18.10	9.99	5.46	39.99
Influent BOD (mg/l)	239	239	292	342	
Influent TSS (mg/l)	284	314	643	527	
Effluent BOD (mg/l)	4.8	4.8	6.7	6.8	
Effluent TSS (mg/l)	5.7	7.1	8.1	6.4	
Effluent Turbidity (NTU)	3.2	4.4	3.7	2.2	

(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)	1.24	5.83		7.07
Days of Operation (days)	29	30		
Total Flow (million gallons)	37.2	175.0		212.2
Plant Irrigation (million gallons)	0.00	0.08	0.22	
AWT Time Online (%)	96.0	86.0		

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 June, 2021 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		757.8	0.0	757.8
Nursery Products (tons)		428.8	710.6	1,139.4
Prima Deshecha (tons)		80.4	202.0	282.4
Other:_____ (tons)		0.0	0.0	0.0
Total Processed (tons)		1,267.0	912.6	2,179.6

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	91	271	174	536
Corrective Maintenance	28	107	97	232

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	0	0	0
Residents	0	0	0	0
Others	0	8	6	14
Tours #/Visitors	0	0	0	0

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	6.0	15.1	NA	21.1

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	NA	NA	NA	0.0
Utility Power Purchase (kWh)	NA(1)	NA(1)	152,840	152,840
Cogen Power (kWh)		556,249(1)	398,130	954,379
Natural Gas (Dth)	NA	NA	1,285	1,285
Digester Gas to Engine (scfm)		8,574,767	5,093,938	13,668,705
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		502,147	860,016	1,362,163
Digester Gas Power Savings		(1)		

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

(1) SCE's billing system is being overhauled and billings for RTP are not available at this time. Power data are direct meter reads by SOCWA staff.

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report June, 2021 (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	1.578	54.50%				1.58
EBSD	0.070	2.43%				0.07
SCWD	1.247	43.07%		1.736	24.15%	2.98
MNWD	0.000	0.00%	7.54	1.400	19.47%	8.94
CSJC				2.383	33.15%	2.38
SMWD				1.670	23.23%	1.67
Total	2.895	100.00%	7.54	7.189	100.00%	17.63

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.58	25.59%	1.58	
EBSD				0.07	1.14%	0.07	
SCWD	1.94	18.99%		0.12	1.93%	2.06	Includes Desalters
MNWD	1.46	14.32%		1.71	27.79%	3.18	
ETWD				1.47	23.79%	1.47	Direct Outfall Only
CSJC	2.81	27.47%				2.81	Incudes Desalter
SMWD	1.68	16.46%				1.68	Includes Chiquita
CSC	2.33	22.77%				2.33	Direct Outfall Only
IRWD				1.22	19.76%	1.22	Direct Outfall Only
Total	10.22	100.00%	8.14	6.16	100.00%	16.38	

SOCWA Operational Report June, 2021 (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%	2.070	33.06%	2.383	33.15%	2.21	31.15%
MNWD	3.00	23.08%	1.400	22.36%	1.400	19.47%	1.40	19.76%
SCWD	3.75	28.85%	1.691	27.01%	1.736	24.15%	1.68	23.71%
SMWD	2.25	17.31%	1.100	17.57%	1.670	23.23%	1.80	25.38%
Total	13.00	100.00%	6.261	100.00%	7.189	100.00%	7.09	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%	5,706	27.34%	7,193	23.86%	6,106	25.20%
MNWD	8,340	21.62%	3,859	18.49%	7,263	24.09%	6,066	25.03%
SCWD	7,715	20.00%	5,181	24.83%	7,026	23.31%	6,059	25.00%
SMWD	10,946	28.38%	6,122	29.34%	8,663	28.74%	6,004	24.77%
Total	38,573	100.00%	20,868	100.00%	30,146	100.00%	24,236	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	16.62%	2.867	23.61%	2.327	22.77%	2.730	23.31%
CSJC	11.08%	2.460	20.26%	2.807	27.47%	2.541	21.70%
MNWD(3)	15.51%	2.115	17.42%	1.463	14.32%	2.202	18.81%
SCWD	12.47%	1.845	15.20%	1.941	18.99%	1.892	16.16%
SMWD	44.32%	2.855	23.51%	1.682	16.46%	2.343	20.01%
Total	100.00%	12.142	100.00%	10.220	100.00%	11.708	100.00%

(1) Influent billing meter summary:

a. CSJC is metered daily in the collection system. The area-velocity meter has an accuracy of +/- 20%.

b. MNWD is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.

c. SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.

d. 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.

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%	1.620	60.25%	1.578	54.50%	1.566	58.11%
EBSD	0.20	2.99%	0.050	1.86%	0.070	2.43%	0.078	2.89%
SCWD	2.00	29.85%	1.019	37.90%	1.247	43.07%	1.051	38.99%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	2.689	100.00%	2.895	100.00%	2.694	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	0.01422	0.1874%	0.0000	0.0124	0.0124	0.1615%	0.0131	0.1684%
EBSD	0.00044	0.0058%	0.0000	0.0006	0.0006	0.0072%	0.0007	0.0085%
SCWD	0.00893	0.1177%	0.0000	0.0098	0.0098	0.1276%	0.0087	0.1121%
ETWD	0.01411	0.1859%	0.0000	0.0161	0.0161	0.2100%	0.0153	0.1971%
MNWD	7.55200	99.5033%	7.5447	0.0714	7.6160	99.4937%	7.7226	99.5140%
Total	7.58970	100.0000%	7.5447	0.1101	7.6548	100.0000%	7.7603	100.0000%

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

SOCWA Operational Report June, 2021 (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%	5,770	15.34%	137,172	11.23%	137,313	12.46%
EBSD	295	0.59%	180	0.48%	6,123	0.50%	6,806	0.62%
SCWD	4,480	8.96%	3,626	9.64%	108,400	8.87%	91,743	8.33%
ETWD	10,200	20.41%	5,701	15.15%	178,391	14.60%	161,564	14.66%
MNWD	29,395	58.82%	22,346	59.39%	791,851	64.80%	704,289	63.93%
Total	49,975	100.00%	37,623	100.00%	1,221,937	100.00%	1,101,715	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	11.000%	1.89	17.73%	1.578	25.59%	1.566	17.57%
EBSD	0.780%	0.05	0.47%	0.070	1.14%	0.078	0.87%
ETWD	16.302%	2.46	23.08%	1.466	23.79%	2.002	22.47%
IRWD	15.760%	2.48	23.26%	1.218	19.76%	2.339	26.25%
MNWD	43.848%	3.08	28.89%	1.713	27.79%	2.618	29.38%
SCWD	12.310%	0.70	6.57%	0.119	1.93%	0.307	3.44%
Total	100.000%	10.66	100.00%	6.165	100.00%	8.909	100.00%

Select Critical Equipment Repairs

JBL - PC2

Continued Digester No. 3 cleaning.
Conducted equipment repairs on damaged equipment removed from Digester No. 3.
Repaired water leak and damaged drywall in the women's locker room.
Repaired several foul air ducts to further prevent potential odors and complaints.

CTP - PC15

Performed a confined space entry of Center Grit Tank baffle for inspection for a future large capital project and conducted spot repairs.
Repaired leaking export sludge force main in the Aliso and Wood Canyons Wilderness Park.
Continued Digester No. 3 cleaning support at JBL.
Replaced a chlorine mixing pump motor that had failed.
Replumbed process water lines on the aeration deck which had become corroded and were leaking.
Painted and finished grouting the South DAFT Recirculation Pump.

RTP - PC17

Removed the effluent bar screen and performed a confined space entry to clean out the effluent channel.
Repaired a broken valved on the Scrubber No. 1 Bleach Tank, which had failed due to corrosion.
Troubleshot the sludge lines in between SET area to Digester No. 2 tripping pumps on high pressure.
Troubleshot the Digester No. 4 Recirculation Pump, which was found to have corroded belts.
Replumbed the Cogen waste heat bypass system drain line, which had become heavily corroded and was leaking.
Supported the repair of the leaking export sludge force main in the Aliso and Wood Canyons Wilderness Park.
Continued Digester No. 3 cleaning support at JBL.

Support Services - ALL PC'S

Performed SCADA screen upgrades and modernizations at all three treatment plants to support construction.
Implemented SCADA programming for Digester No. 4 for Package B startup.
Troubleshot new Polymer System startup at RTP.
Replaced a failed control wiring for the Polymer Transfer Pumps at RTP.
Replaced a failed level diaphragm switch and counter module on AWT Cell No. 3 at RTP.
Replaced the failed motor on WAS No. 3, which had failed at RTP.
Replaced the failed turbidity meter calibration equipment for the AWT's Final Turbidity Meter at RTP.
Troubleshot the motor selector switch on 2W Pump No. 1, which needed to be replaced at RTP.
Replaced the failed VFD for 2W/3W Booster Pump Station at RTP.
Completed annual electrical IR inspections at all three treatment plants.
Removed abandoned electrical conduit on top of Headworks Building at Coastal Treatment Plant.

Select Critical Equipment Repairs (cont'd)

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

Replaced failed chloride sensing probe and peristaltic pump on a west basin at CTP.
Replaced failed motor on the Chlorine Contact Tank Mixer Pump at CTP.
Replaced damaged circuits for lighting timer controller for secondary deck lighting at JBL.
Replaced 9-Side scrubber pH probe, which would not calibrate any more at JBL.
Replaced failed 9-Side scrubber caustic pump speed controller at JBL.
Continued Digester No. 3 cleaning support at JBL.

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

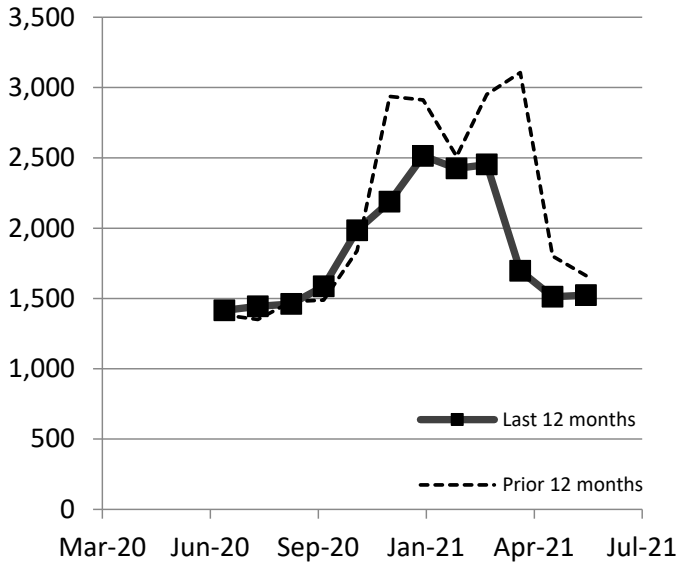
SOCWA Ocean Outfall Discharges by Agency

SOCWA Operational Report June, 2021 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.58	25.59%	1.58
EBSD			0.07	1.14%	0.07
SCWD	1.94	18.99%	0.12	1.93%	2.06
MNWD	1.46	14.32%	1.71	27.79%	3.18
ETWD			1.47	23.79%	1.47
CSJC	2.81	27.47%			2.81
SMWD	1.68	16.46%			1.68
CSC	2.33	22.77%			2.33
IRWD			1.22	19.76%	1.22
Total	10.22	100.00%	6.16	100.00%	16.38
	or Acre-Feet per year equivalent				18,351

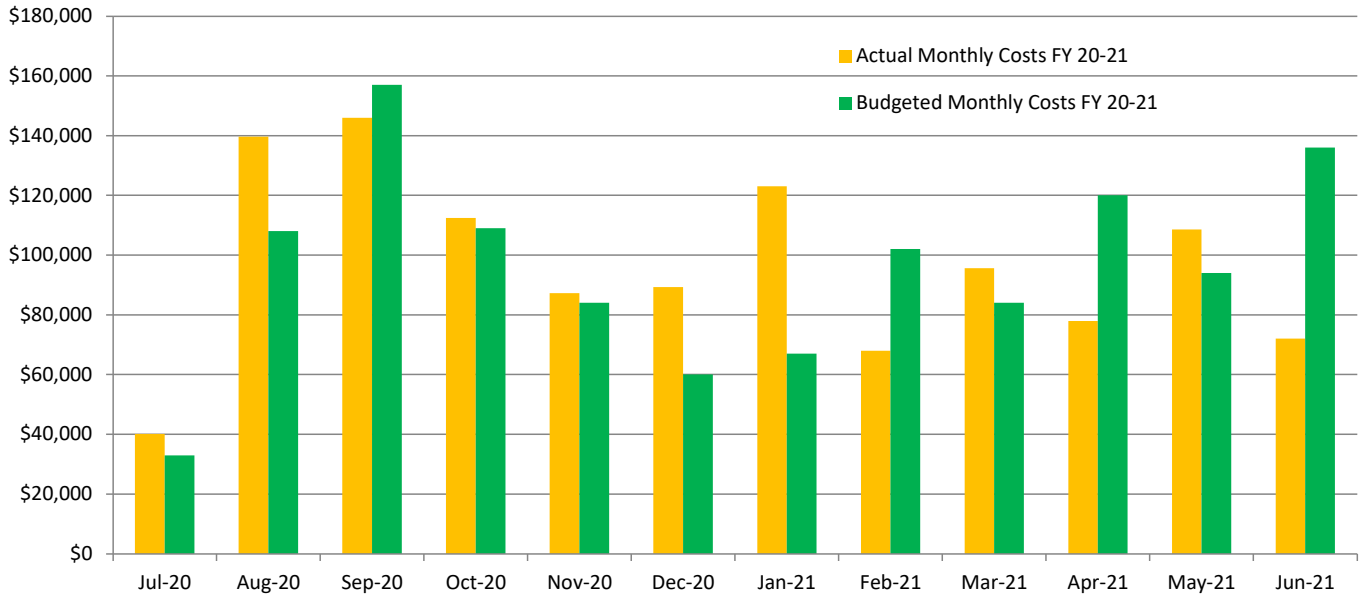
12-Month Running Total Discharge to Ocean Outfalls (AF)

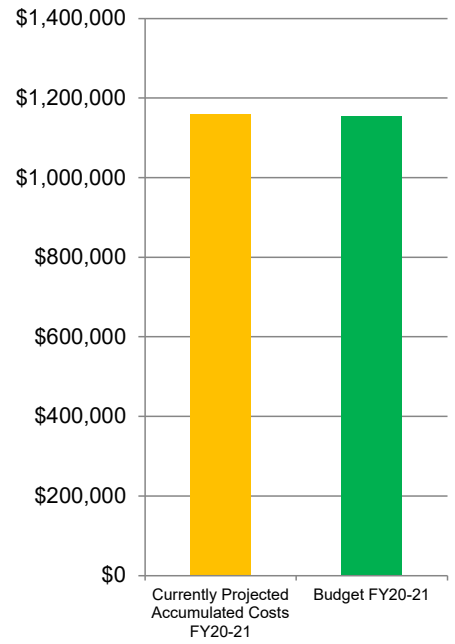
Jun-21	1,523
May-21	1,512
Apr-21	1,696
Mar-21	2,453
Feb-21	2,425
Jan-21	2,514
Dec-20	2,189
Nov-20	1,985
Oct-20	1,586
Sep-20	1,461
Aug-20	1,445
Jul-20	1,416
Total	22,204



Quarterly Report on Key Operational Expenses

Electricity (5002) Costs



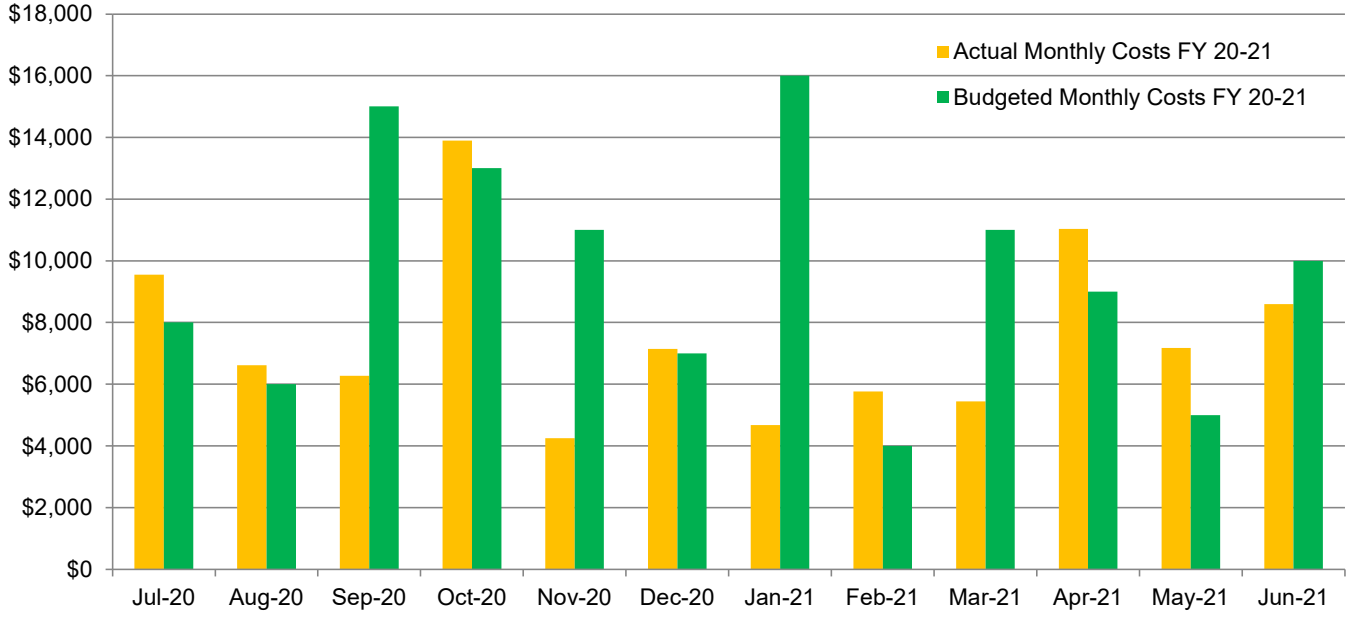


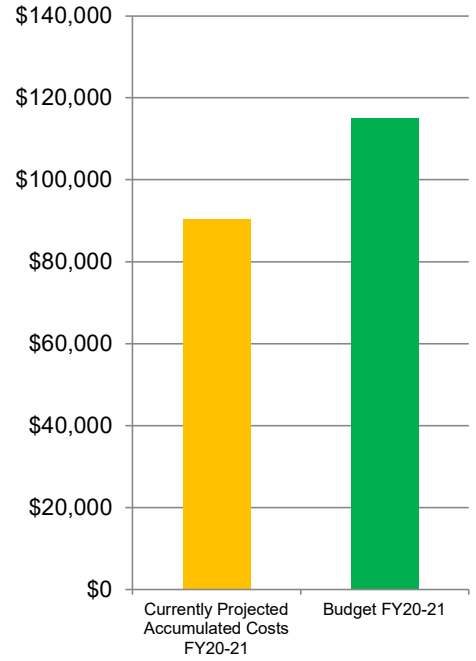
	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21 (1)	Jun-21 (1)
Actual Monthly Costs FY 20-21	$40,080	$139,624	$145,958	$112,470	$87,244	$89,330	$123,044	$68,018	$95,629	$77,920	$108,566	$72,033
Budgeted Monthly Costs FY 20-21	$33,000	$108,000	$157,000	$109,000	$84,000	$60,000	$67,000	$102,000	$84,000	$120,000	$94,000	$136,000

Currently Projected Accumulated Costs FY20-21	$1,159,917
Budget FY20-21	$1,154,000
Currently Projected Under(+)/Over (-) Budget	-$5,917

(1) SCE's billing system is being overhauled and billings for RTP were estimated for this report.

Odor Control (5009) Costs

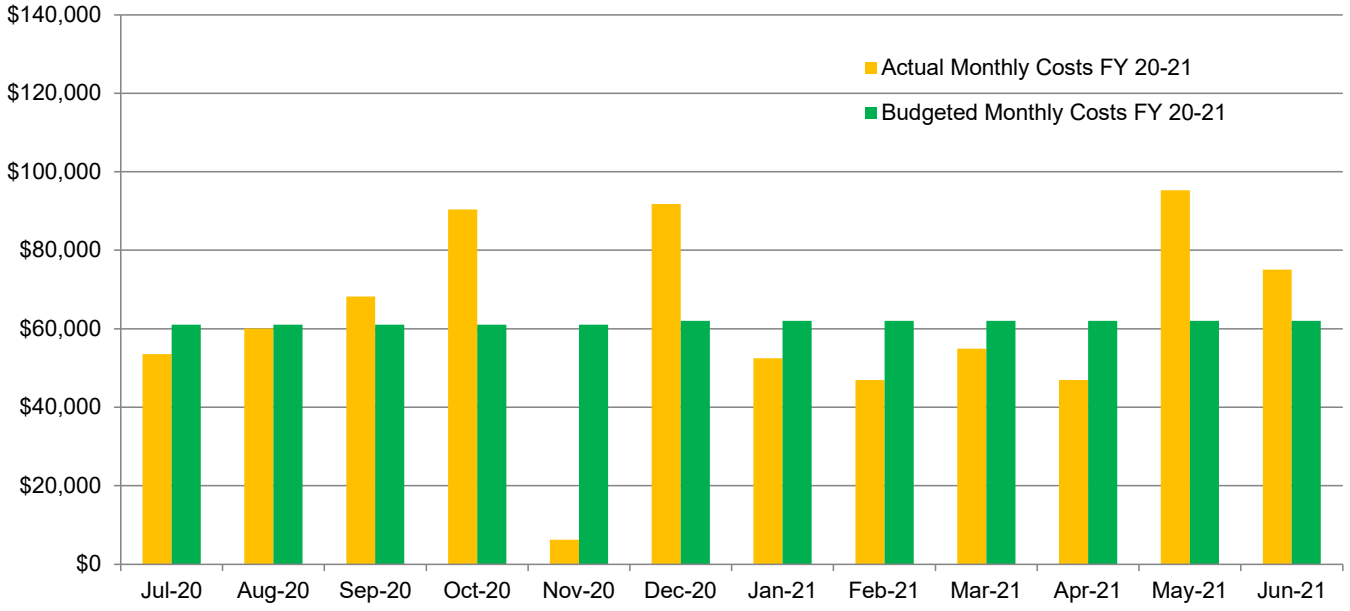


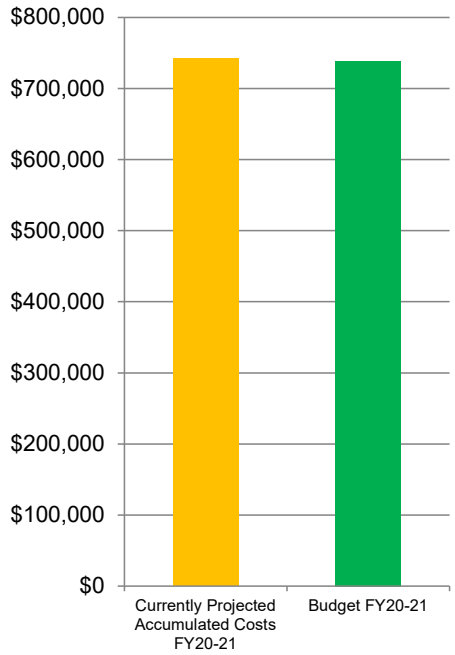


	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
Actual Monthly Costs FY 20-21	$9,547	$6,618	$6,277	$13,896	$4,250	$7,141	$4,677	$5,763	$5,449	$11,032	$7,177	$8,601
Budgeted Monthly Costs FY 20-21	$8,000	$6,000	$15,000	$13,000	$11,000	$7,000	$16,000	$4,000	$11,000	$9,000	$5,000	$10,000

Currently Projected Accumulated Costs FY20-21	$90,428
Budget FY20-21	$115,000
Currently Projected Under(+)/Over (-) Budget	$24,572

Polymer (5007) Costs

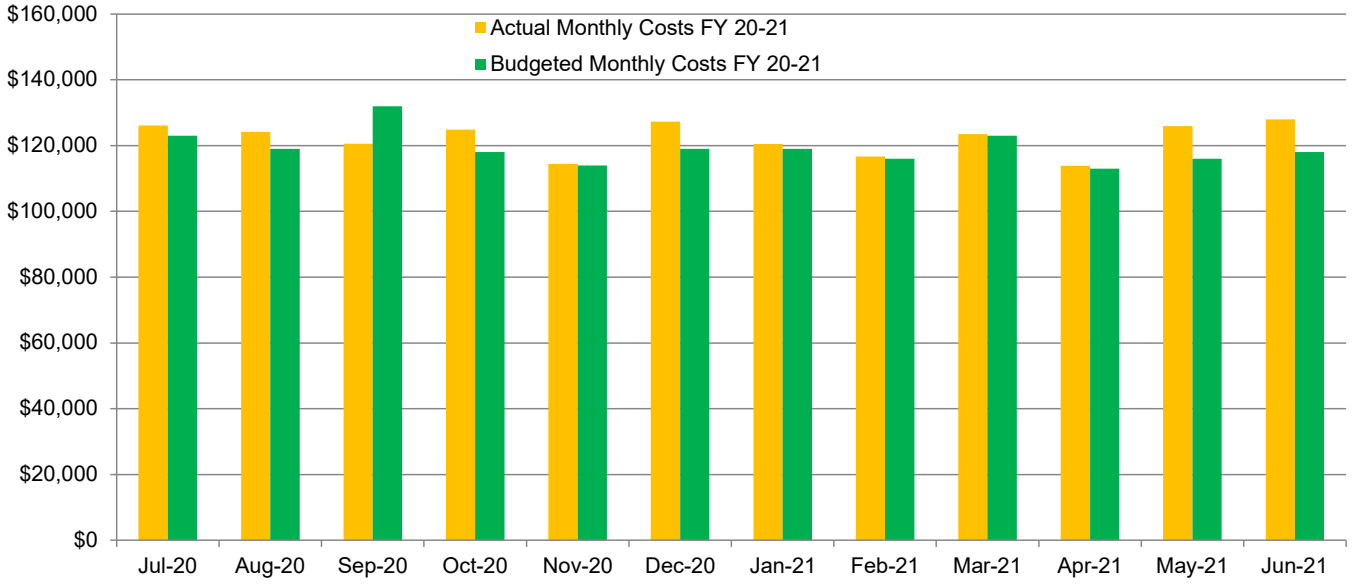


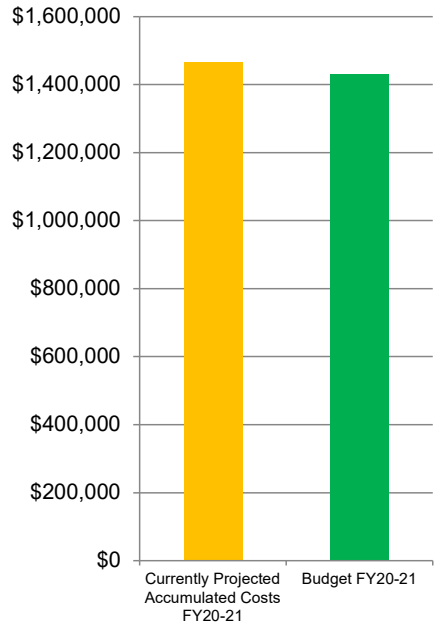


	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
Actual Monthly Costs FY 20-21	$53,535	$60,064	$68,189	$90,369	$6,287	$91,793	$52,454	$46,903	$54,912	$46,964	$95,317	$75,063
Budgeted Monthly Costs FY 20-21	$61,000	$61,000	$61,000	$61,000	$61,000	$62,000	$62,000	$62,000	$62,000	$62,000	$62,000	$62,000

Currently Projected Accumulated Costs FY20-21	$741,851
Budget FY20-21	$739,000
Currently Projected Under(+)/Over (-) Budget	-$2,851

Biosolids (5049) Costs

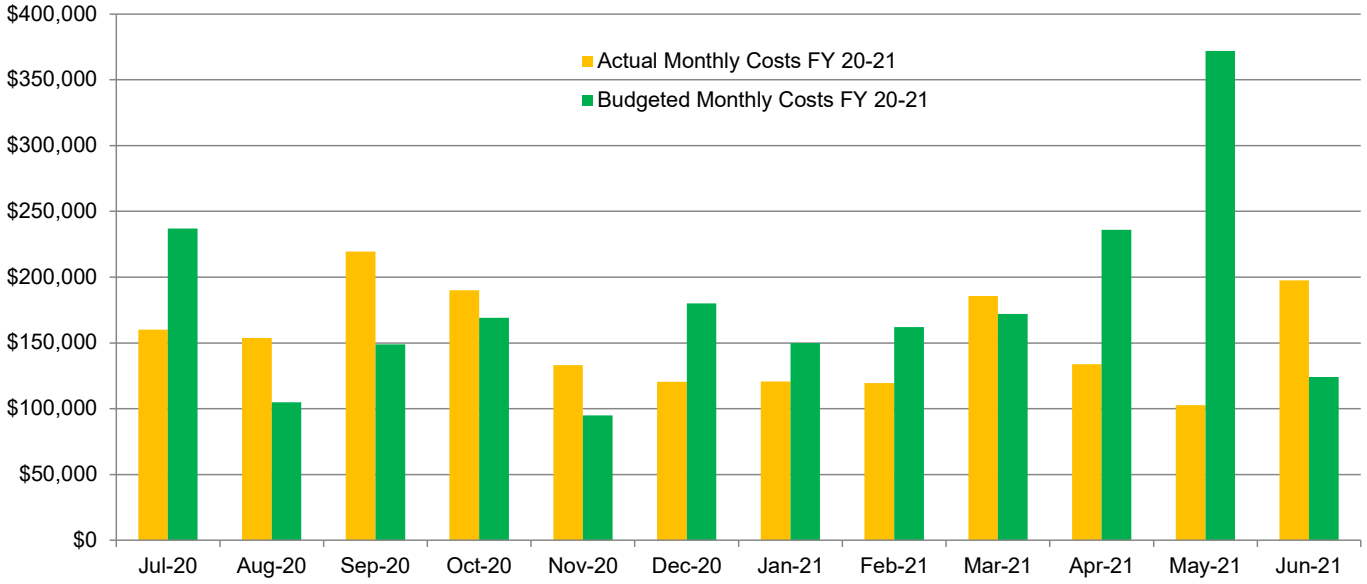


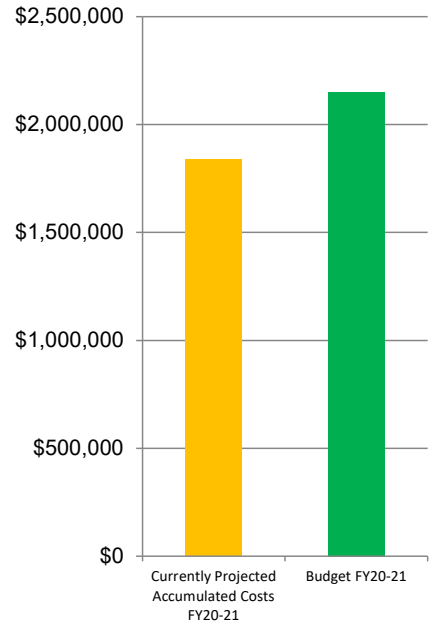


	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
Actual Monthly Costs FY 20-21	$126,075	$124,148	$120,617	$124,839	$114,423	$127,270	$120,483	$116,636	$123,516	$113,832	$125,898	$127,953
Budgeted Monthly Costs FY 20-21	$123,000	$119,000	$132,000	$118,000	$114,000	$119,000	$119,000	$116,000	$123,000	$113,000	$116,000	$118,000

Currently Projected Accumulated Costs FY20-21	$1,465,691
Budget FY20-21	$1,430,000
Currently Projected Under(+)/Over (-) Budget	-$35,691

Maintenance Repair (5056 to 5060) Costs

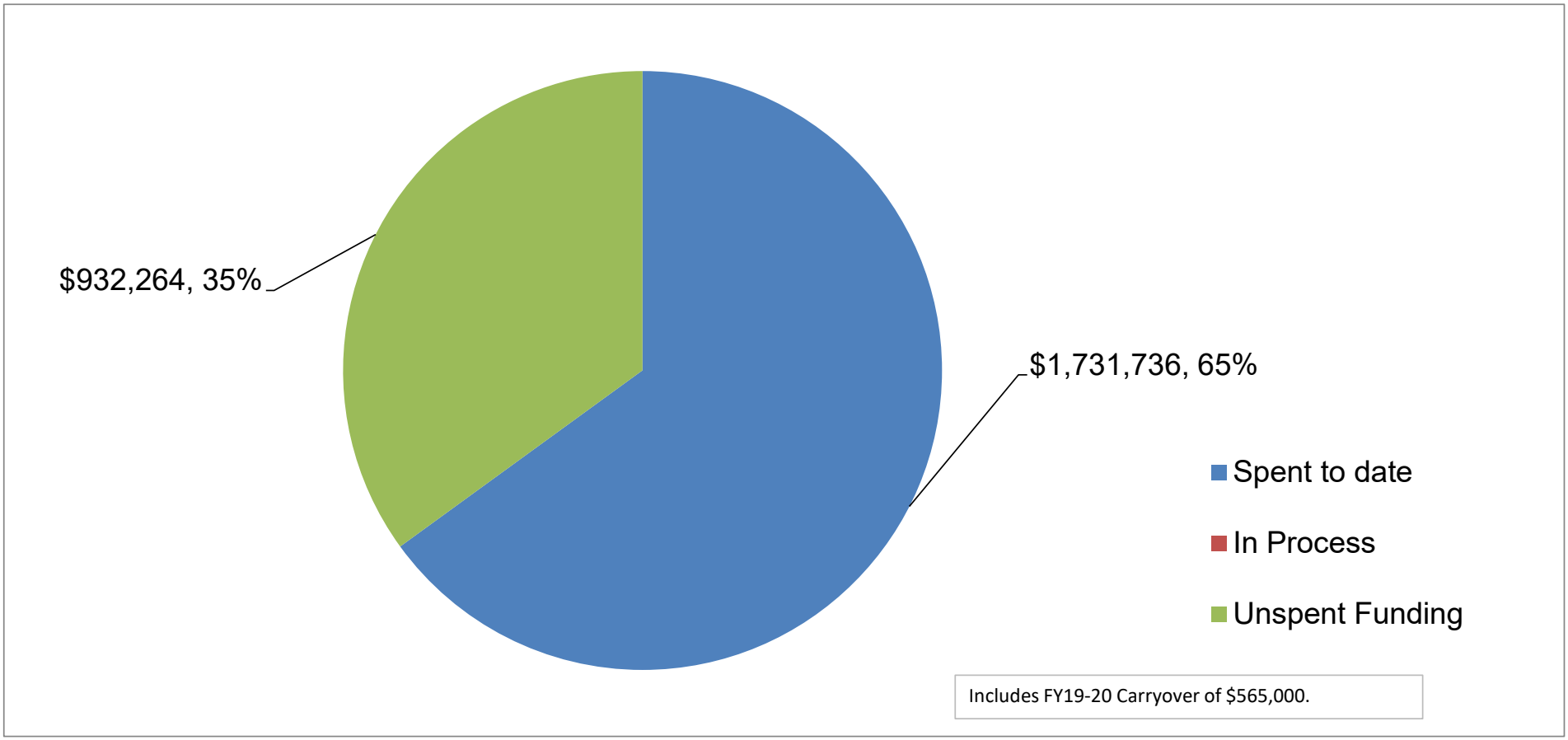




	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
Actual Monthly Costs FY 20-21	$160,106	$153,719	$219,440	$190,056	$133,083	$120,577	$120,606	$119,550	$185,760	$133,871	$102,819	$197,653
Budgeted Monthly Costs FY 20-21	$237,000	$105,000	$149,000	$169,000	$95,000	$180,000	$150,000	$162,000	$172,000	$236,000	$372,000	$124,000

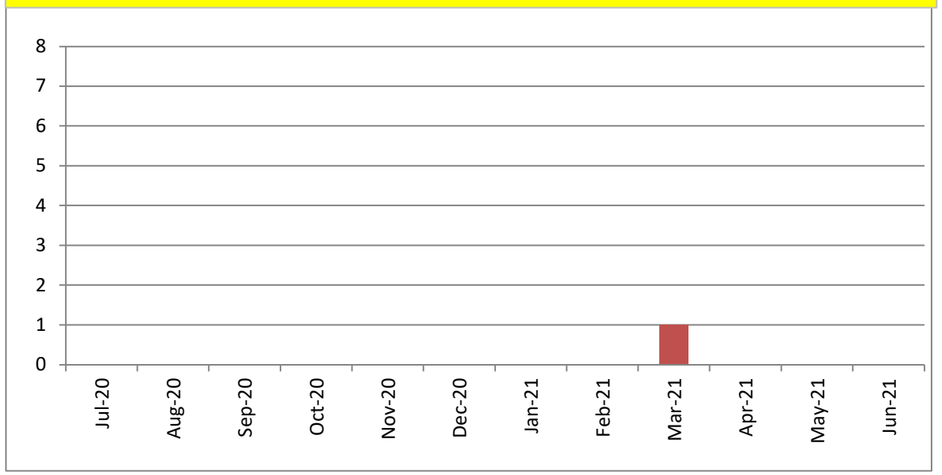
Currently Projected Accumulated Costs FY20-21	$1,837,240
Budget FY20-21	$2,151,000
Currently Projected Under(+)/Over (-) Budget	$313,760

FY20-21 Small Internal Capital Costs



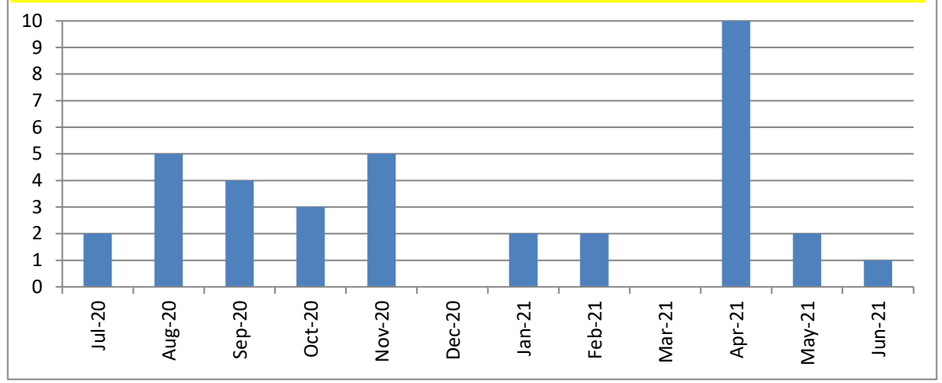
SOCWA SAFETY UPDATE - JULY 1, 2021

OSHA RECORDABLE INJURIES



	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
OSHA RECORDABLE INJURIES	0	0	0	0	0	0	0	0	1	0	0	0

NEAR MISS REPORTS



	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
NEAR MISS REPORTS	2	5	4	3	5	0	2	2	0	10	2	1

SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
February '21 - Annual Fire Extinguisher Use Training / March '21 Annual Heat Illness Training	95%
October/November '20 - Forklift Training and Additional ICS Training	95%
September '20 - CPR/First Aid/AED Training (Refresher and Initial)	95% (all SOCWA employees)
August '20 - Annual Audiometric Hearing Testing and Training	100%
July '20 - Annual Fire Extinguisher Use Training (Additional training dates pending)	75%
June '20 - Annual 8-HR HAZWOPER Refresher Training (Covid-19 ECP Compliant)	95%
Apr '20 - Annual Bloodborne Pathogen Training (Completed remotely)	95% (all SOCWA employees)
Mar '20 - Annual Heat Illness Training (Make-Up Training in May 2020)	95% (including make-up training)
Feb '20 - Active Shooter/Workplace Violence Training	95%
October '19 - Fall Protection Training, Additonal ICS Training, and Spill Training	90%
September '19 - Wildland Fire Training and Additional CPR/First Aid/AED Training	90%
Aug '19 - Initial Confined Space Entry Rescue and Additional Active Shooter Training	95%
July '19 - Annual Fire Extinguisher Training	95%
June '19 - Annual Confined Space Entry Rescue Refresher Training	95%
April '19 - Annual HAZWOPER Refresher Training (8-Hour)	95%
March '19 - Annual Respirator Fit Testing and PPE Use Training	100%
Feb '19 - Annual Bloodborne Pathogens Training and Additional Arc Flash Training	95%
December '18 - Annual Defensive Driving/Distracted Driving/DUIs Training (w/ CHP)	100%
October '18 - Crane Safety	100%
September '18 - Silica Safety Training	100%
August '18 - Fire Awareness Safety for Field Personnel and Lockout/Tagout Training	100%
March '18 - CPR/First Aid/AED Training	100% (all SOCWA employees)
January '18 - Respiratory PPE Training/Fit Testing and Additional ICS Training	90%
October '17 - Forklift Training / Certification	100%
September '17 - Active Shooter/Workplace Violence Training	100%
July/August '17 - Spill Response Training (hands on training)	100%
May '17 - Safety Culture Training	100%
March '17 - Fall Protection Training and CPR, First Aid, AED Training	100%
January '17 - Lockout/Tagout Training and Confined Space Rescue Practice/Training	100%
October '16 - Confined Space Awareness/Entry Rescue Training and Forklift Training	100%
May '16 - Entry Level NIMS/ICS Training and Heat Illness Training	100%
February '16 - Biomechanics/Ergonomics Training and Bloodborne Pathogen Training	100%
Oct '15 and Jan '16 - Initial Confined Space Entry Rescue (3-day trainings)	100%
November '15 - Annual Hearing Testing and Laboratory Safety Training	100%
September '15 - Pre-Storm Workshop, Arc Flash Training, and Forklift Training	100%
August '15 - Fire Prevention for Water Utility Field Staff and Disaster Cost Recovery Training	100%
July '15 - Initiate additional NIMS/ICS Training and Water and Power Resiliency Workshop	Ongoing
June '15 - Initial Confined Space Awareness and Non-Entry Rescue Training	100%

Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

June 2021

	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
DATE	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
06/01/21	No Flow				1.936	8.5	3.6	0.1	1.270	7.4	6.0	<0.1	1.420	7.2	6.0	<0.1	0.789	0.533	0.122	6.070	0.00
06/02/21	No Flow				3.044	7.5	3.4	<0.1	1.06	5.7	3.0	0.1	1.768	1.9	2.0	0.1	0.789	0.533	0.138	7.332	0.00
06/03/21	No Flow				2.252	9.8	4.6	<0.1	0.980	4.5	3.0	0.1	1.694	6.8	5.0	0.2	0.778	0.533	0.155	6.392	0.00
06/04/21	No Flow				2.145	10.3	4.9	<0.1	0.730	4.5	3.0	0.1	2.103	7.7	6.0	0.1	0.776	0.532	0.130	6.416	0.00
06/05/21	No Flow				1.334	9.6	5.5	<0.1	0.680	4.5	2.0		1.960	5.5	7.0		0.776	0.531	0.140	5.421	0.00
06/06/21	No Flow				2.530	11.6		<0.1	1.220	3.8	4.0	<0.1	2.345	1.3	3.0		0.770	0.532	0.136	7.533	0.00
06/07/21	No Flow				2.901	10.0		<0.1	8.070	8.0	5.0	0.1	2.064	1.3	3.0	<0.1	0.769	0.513	0.099	14.416	0.00
06/08/21	No Flow				2.082	9.4	5.2	<0.1	3.880	5.0	4.0	<0.1	0.940	4.4	3.0	<0.1	0.769	0.511	0.100	8.282	0.00
06/09/21	No Flow				0.851	10.5	4.0	<0.1	1.500	6.7	2.0	<0.1	0.649	4.9	5.0	0.2	0.674	0.510	0.156	4.340	0.00
06/10/21	No Flow				1.058	13.8	6.0	<0.1	0.670	4.5	3.0	0.1	1.731	5.4	8.0	0.1	0.776	0.510	0.139	4.884	0.00
06/11/21	No Flow				1.314	11.8	4.8	<0.1	0.650	4.5	3.0	0.1	1.907	6.3	5.0	0.1	0.776	0.510	0.054	5.211	0.00
06/12/21	No Flow				1.215	11.0	5.4	0.1	0.570	4.5	3.0		1.803	9.7	5.0		0.777	0.491	0.083	4.939	0.00
06/13/21	No Flow				1.006	12.0		<0.1	0.630	4.2	4.0	<0.1	1.982	2.4	3.0		0.776	0.491	0.003	4.888	0.00
06/14/21	No Flow				1.674	14.2		0.1	0.810	5.8	3.0	<0.1	2.196	1.4	<2.0	<0.1	0.777	0.491	0.104	6.052	0.00
06/15/21	No Flow				1.159	19.5	6.5	0.1	1.060	5.6	4.0	<0.1	1.373	7.8	4.0	<0.1	0.713	0.490	0.115	4.910	0.00
06/16/21	No Flow				1.532	15.0	4.6	0.1	0.840	5.5	3.0	0.1	0.964	7.7	2.0	0.1	0.531	0.490	0.155	4.512	0.00
06/17/21	No Flow				1.403	10.0	3.4	0.1	0.720	6.1	3.0	0.1	1.751	9.1	4.0	0.2	0.537	0.489	0.138	5.038	0.00
06/18/21	No Flow				1.092	7.7	2.5	0.1	0.660	5.2	3.0	0.1	1.880	5.7	3.0	0.2	0.776	0.490	0.116	5.014	0.00
06/19/21	No Flow				1.344	9.3	2.8	0.1	0.260	5.3	3.0		1.382	6.5	6.0		0.698	0.489	0.152	4.325	0.00
06/20/21	No Flow				0.824	7.0		<0.1	0.240	4.1	3.0	0.1	2.139	1.8	<2.0		0.764	0.488	0.124	4.579	0.00
06/21/21	No Flow				1.774	11.0		<0.1	2.460	7.2	4.0	<0.1	1.753	3.8	2.0	0.1	0.764	0.487	0.143	7.381	0.00
06/22/21	No Flow				1.276	8.4	4.0	0.1	0.690			<0.1	1.800	6.3	4.0	0.1	0.768	0.488	0.118	5.140	0.00
06/23/21	No Flow				1.014	10.7	3.9	<0.1	0.350	6.4	3.0	<0.1	1.321	4.6	3.0	<0.1	0.428	0.487	0.108	3.708	0.00
06/24/21	No Flow				1.192	14.0	6.0	<0.1	0.580	5.6	4.0	<0.1	1.722	10.8	7.0	0.1	0.395	0.487	0.176	4.552	0.00
06/25/21	No Flow				0.904	9.0	4.3	<0.1	0.240	5.7	4.0	0.1	2.125	13.3	9.0	0.2	0.567	0.487	0.118	4.441	0.00
06/26/21	No Flow				1.032	10.3	4.4	<0.1	4.680	28.2	26.0	0.2	1.557	9.7	9.0		0.789	0.403	0.138	8.599	0.00
06/27/21	No Flow				0.606	10.4		<0.1	7.310	24.6	21.0	0.1	1.540	5.8	7.0	0.1	0.789	0.430	0.111	10.786	0.00
06/28/21	No Flow				1.879	12.8		0.1	7.440	9.8	5.0	<0.1	1.886	3.4	6.0	<0.1	0.789	0.490	0.004	12.488	0.00
06/29/21	No Flow				0.602	8.5	2.9	0.1	0.860	5.6	3.0	<0.1	2.557	4.5	6.0	0.3	0.789	0.488	0.004	5.300	0.00
06/30/21	No Flow				1.017	15.0	5.6	0.1	0.280	7.6	3.0	<0.1	2.703	2.9	8.0	0.1	0.789	0.486	0.003	5.278	0.00
AVG	No Flow				1.466	11.0	4.5	<0.1	1.713	7.1	4.8	<0.1	1.767	5.7	4.8	<0.1	0.722	0.496	0.109	6.274	
TOTAL	No Flow				43.99				51.39				53.02				21.66	14.89	3.282	188.23	0.00

Unified Beach Monitoring #1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: June 2021
REPORT DUE: August 1 2021
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: Low Tide 1119
Weather: Overcast
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	06/03/21	750	<10	<10	2	None	None	None	None	Green	60	Clear		
S4	06/03/21	1005	<10	<10	<2	None	None	None	None	Green		Clear		
S5	06/03/21	940	<10	<10	<2	None	None	None	None	Green		Clear		
S6	06/03/21	925	10	<10	2	None	None	None	None	Green		Clear		
WEST	06/03/21	920	<10	<10	2	None	None	None	None	Green		Clear		
S7	06/03/21	915	<10	<10	<2	None	None	None	None	Green		Clear		
S8	06/03/21	910	<10	<10	4	None	None	None	None	Blue		Clear		
S9	06/03/21	850	<10	<10	2	None	None	None	None	Green		Clear		
ACM1	06/03/21	845	50	20	10	None	None	None	None	Green		Clear		
S10	06/03/21	840	10	<10	2	None	None	None	None	Green		Clear		
S11	06/03/21	830	20	<10	2	None	None	None	None	Green		Clear		
S12	06/03/21	820	<10	<10	2	None	None	None	None	Green		Clear		

RECREATIONAL WATER LIMITATIONS:Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exce 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: June 2021
REPORT DUE: August 1, 2021
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 1033
Weather: Clear
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	06/10/21	750	<10	<10	<2	None	None	None	None	Green	61	Clear		
S4	06/10/21	1020	<10	<10	<2	None	None	None	None	Green		Clear		
S5	06/10/21	1000	<10	<10	<2	None	None	None	None	Green		Clear		
S6	06/10/21	940	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	06/10/21	935	<10	<10	<2	None	None	None	None	Green		Clear		
S7	06/10/21	930	<10	<10	<2	None	None	None	None	Green		Clear		
S8	06/10/21	920	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	06/10/21	850	<10	<10	<2	None	None	None	None	Green		Clear		
ACM1	06/10/21	845	<10	<10	<2	None	None	None	None	Green		Clear		
S10	06/10/21	835	<10	<10	2	None	None	None	None	Green		Clear		
S11	06/10/21	825	10	<10	2	None	None	None	None	Green		Clear		
S12	06/10/21	820	<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 #3

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: June 2021
REPORT DUE: August 1, 2021
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 1235
Weather: Clear
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	06/15/21	1220	10	<10	<2	None	None	None	None	Green	69	Slightly Turbid		
S4	06/15/21	1210	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S5	06/15/21	1200	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S6	06/15/21	1150	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	06/15/21	1145	10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S7	06/15/21	1140	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S8	06/15/21	1135	<10	<10	700	None	None	None	None	Green		Clear		
S9	06/15/21	1120	<10	<10	<2	None	None	None	None	Green		Clear		
ACM1	06/15/21	1115	<10	<10	4	None	None	None	None	Green		Clear		
S10	06/15/21	1050	<10	<10	<2	None	None	None	None	Green		Clear		
S11	06/15/21	1045	30	<10	8	None	None	None	None	Green		Clear		
S12	06/15/21	1040	<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 exc 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: June 2021
REPORT DUE: August 1, 2021
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

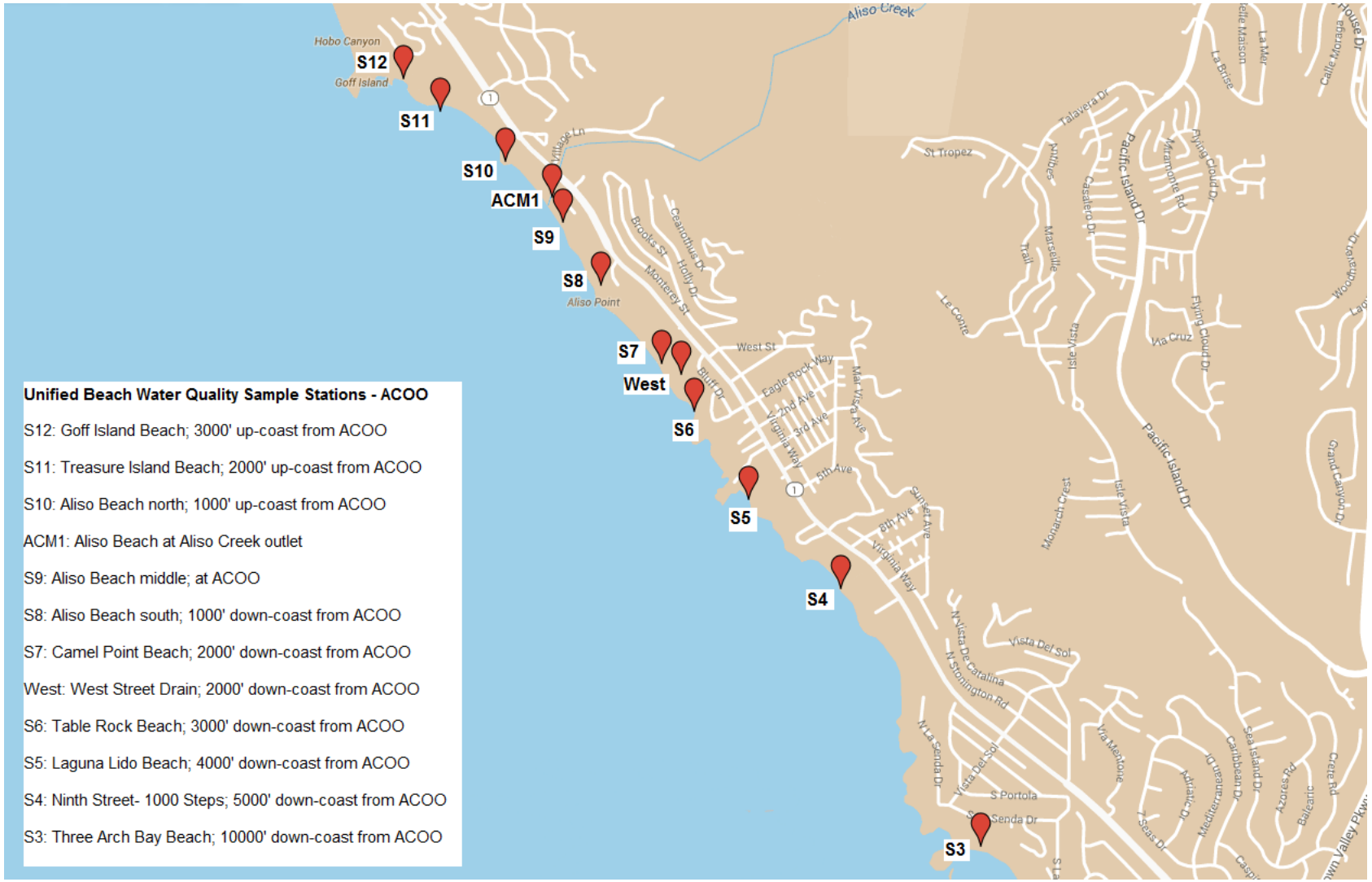
REPORT FREQUENCY: Monthly
EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
SAMPLES COLLECTED BY: SOCWA Lab
SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0819
Weather: Overcast
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	06/22/21	0732	<100	10	9	None	None	None	None	Green	64	Slightly Turbid		
S4	06/22/21	0752	<100	10	24	None	None	None	None	Green		Slightly Turbid		
S5	06/22/21	0808	<100	20	10	None	None	None	None	Green		Slightly Turbid		
S6	06/22/21	0820	<10	<10	6	None	None	None	None	Green	64	Slightly Turbid		
WEST	06/22/21	0824	10	<10	6	None	None	None	None	Green		Slightly Turbid		
S7	06/22/21	0828	<100	<10	14	None	None	None	None	Green		Slightly Turbid		
S8	06/22/21	0903	<100	20	16	None	None	None	None	Green		Slightly Turbid		
S9	06/22/21	0930	40	<10	6	None	None	None	None	Green		Slightly Turbid		
ACM1	06/22/21	0927	<10	<10	14	None	None	None	None	Green		Slightly Turbid		
S10	06/22/21	0858	<100	<10	66	None	None	None	None	Green	64	Slightly Turbid		
S11	06/22/21	0910	<10	10	<2	None	None	None	None	Green		Slightly Turbid		
S12	06/22/21	0916	10	<10	<2	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.

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: June 2021
REPORT DUE: August 1, 2021
SAMPLE SOURCE: Receiving water, nearshore and offshore
EXACT SAMPLE POINTS: As specified in permit
SAMPLES COLLECTED BY: Seaventures/SOCWA staff
SAMPLES ANALYZED BY: SOCWA Lab

REPORT FREQUENCY: Monthly

SAMPLING FREQUENCY: Monthly
TYPE OF SAMPLE: Grab

Comments: Choppy; High Tide 914

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris
A-1	Surface	06/23/21	<2	<2	<2	805	0	0
A-1	Mid depth	06/23/21	10	<10	<10			
A-2	Surface	06/23/21	<2	<2	<2	751	0	0
A-2	Mid depth	06/23/21	<10	<10	<10			
A-3	Surface	06/23/21	<2	<2	<2	755	0	0
A-3	Mid depth	06/23/21	<10	<10	<10			
A-4	Surface	06/23/21	2	<2	<2	810	0	0
A-4	Mid depth	06/23/21	<10	<10	<10			
A-5	Surface	06/23/21	<2	2	2	800	0	0
A-5	Mid depth	06/23/21	<10	<10	<10			
B-1	Surface	06/23/21	<2	<2	<2	743	0	0
B-1	Mid depth	06/23/21	<10	<10	<10			
B-2	Surface	06/23/21	<2	<2	2	821	0	0
B-2	Mid depth	06/23/21	<10	<10	<10			
N1	Surface	06/23/21	2	<2	<2	838	0	0
N2	Surface	06/23/21	<2	<2	2	836	0	0
N3	Surface	06/23/21	6	<2	2	834	0	0
N4	Surface	06/23/21	4	<2	2	833	0	0
N5	Surface	06/23/21	2	2	4	832	0	0
N6	Surface	06/23/21	20	2	2	831	0	0
N7	Surface	06/23/21	4	2	<2	830	0	0

0 - None
1 - Mild
2 - Moderate
3 - Severe

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

Compliance Summary Report
Aliso Creek Ocean Outfall 2021

ACOO Permit Order No. R9-2012-0013							
Agency - Facility	**Violation Date**	**Constituent**	**Effluent Limit Violation**	**Units**	**Permit Limit**	**Reported Value**	**Potential Fine**
No violations during this monitoring period.							

SOCWA and MEMBER AGENCY FACILITIES
ACOO Spill / Overflow Report Log - 2021
Order No. R9-2012-0013 ~ NPDES Permit No. CA0107611

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
SOCWA	SOCWA	1,920	Raw Sewage	Spill was located on the export sludge main. Due to ongoing work on the main, the spill was identified immediately, stopped, and contained. Contaminated soil was removed for offsite disposal.	None	6/10/2021	6/10/2021

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

June 2021

	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC Desalter	SCWD Desalter	SJCOO	Rain
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	Fall
DATE	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	inches
06/01/21	6.650	7.4	6.3	<0.1	2.238	6.6	8.0	<0.1	0.011	2.2	6.6	<0.1	0.023	8.4	7.0	ND	0.457	0.203	8.560	0.00
06/02/21	6.350	8.0	6.6	0.2	1.446	6.5	12.0	<0.1	0.014	2.1	3.5	<0.1	0.059	8.2	6.4	ND	0.456	0.208	9.380	0.00
06/03/21	6.460	8.4	7.3	0.2	2.576	6.2	9.0	<0.1	0.013	2.1	3.4	<0.1	0.012	9.0	7.2	ND	0.457	0.204	8.950	0.00
06/04/21	6.360	6.8	7.3	0.1	2.508	6.4	9.0	<0.1	0.030	1.9	2.9	<0.1	0.024	10.2	7.5	ND	0.457	0.208	9.600	0.00
06/05/21	6.470	4.6	7.3		2.730				0.000				0.019				0.457	0.205	9.580	0.00
06/06/21	6.620	7.4	6.0		2.249				0.000				0.022				0.458	0.205	9.210	0.00
06/07/21	6.380	7.0	6.7	<0.1	3.159	7.4	6.0	<0.1	0.010	3.1	6.0	<0.1	0.032	9.0	6.4	ND	0.275	0.206	9.560	0.00
06/08/21	6.510	6.2	5.7	<0.1	2.145	7.2	6.0	<0.1	0.008	2.0	6.8	<0.1	0.010	10.8	6.1	ND	0.000	0.204	9.750	0.00
06/09/21	6.240	8.3	5.4	0.1	2.986	6.2	7.0	<0.1	0.096	7.8	2.5	<0.1	0.019	9.8	7.2	ND	0.000	0.209	9.390	0.00
06/10/21	6.450	6.0	6.8	0.1	2.079	8.7	6.0	<0.1	0.009	2.0	2.3	<0.1	0.024	9.8	6.8	ND	0.000	0.204	9.030	0.00
06/11/21	6.860	8.3	5.9	<0.1	2.111	9.2	7.0	<0.1	0.024	2.1	2.2	<0.1	0.021	9.0	6.6	ND	0.235	0.203	9.130	0.00
06/12/21	6.470	9.3	6.4		2.353				0.000				0.017			ND	0.515	0.209	9.330	0.00
06/13/21	6.560	8.1	6.6		2.059				0.000				0.014				0.512	0.205	9.120	0.00
06/14/21	6.730	9.3	9.8	<0.1	3.200	5.5	6.0	<0.1	0.012	2.5	7.1	<0.1	0.004	7.6	4.8	ND	0.516	0.203	9.420	0.00
06/15/21	6.720	8.8	7.0	<0.1	2.363	6.7	8.0	<0.1	0.010	1.5	8.0	<0.1	0.066	9.2	7.5	ND	0.517	0.209	9.940	0.00
06/16/21	7.000	7.7	6.0	0.1	2.022	5.3	4.0	<0.1	0.008	1.3	2.5	0.1	0.067	12.6	8.9	ND	0.517	0.205	9.530	0.00
06/17/21	7.620	9.1	6.3	0.2	1.661	5.2	4.0	<0.1	0.008	2.4	2.4	<0.1	0.016	10.2	7.4	ND	0.434	0.202	9.100	0.00
06/18/21	6.880	6.8	5.5	0.1	1.982	5.3	4.0	<0.1	0.021	2.0	2.3	<0.1	0.120	8.8	6.6	ND	0.531	0.203	9.640	0.00
06/19/21	6.040	7.4	6.4		2.562				0.000				0.690				0.531	0.201	8.700	0.00
06/20/21	7.030	6.7	5.5		2.406				0.000				0.027				0.528	0.200	9.480	0.00
06/21/21	6.930	7.0	5.3	0.2	2.686	6.4	7.0	<0.1	0.014	2.8	6.8	<0.1	0.016	10.4	6.4	ND	0.488	0.205	10.370	0.00
06/22/21	7.070	7.2	5.0	0.1	2.532	5.6	6.0	<0.1	0.012	2.1	6.6	<0.1	0.103	20.8	12.5	ND	0.439	0.201	9.960	0.00
06/23/21	6.910	6.5	5.3	0.1	2.539	6.2	5.0	<0.1	0.010	2.4	2.7	0.1	0.293	7.4	5.5	ND	0.469	0.202	9.970	0.00
06/24/21	6.960	8.4	7.1	0.1	2.462	6.2	6.0	<0.1	0.011	2.6	2.7	<0.1	0.034	6.0	5.2	ND	0.486	0.204	10.120	0.00
06/25/21	6.780	9.9	7.8	0.1	2.432	6.3	5.0	<0.1	0.012	2.6	3.0	0.3	0.053	9.0	7.2	ND	0.487	0.201	10.590	0.00
06/26/21	6.710	7.3	9.8		2.195				0.000				0.011				0.488	0.201	9.930	0.00
06/27/21	6.640	7.7	9.0		1.726				0.000				0.009				0.508	0.205	9.680	0.00
06/28/21	6.870	7.7	7.0	<0.1	2.405	5.4	6.0	<0.1	0.013	3.3	5.9	0.1	0.014	13.8	8.6	ND	0.526	0.201	9.320	0.00
06/29/21	7.170	8.6	8.3	0.1	2.023	4.3	7.0	<0.1	0.008	3.2	6.5	0.3	0.012	11.0	8.2	ND	0.448	0.201	9.760	0.00
06/30/21	7.070	8.5	6.7	0.2	1.979	4.2	7.0	<0.1	0.010	3.0	3.2	0.1	0.060	11.2	8.6	ND	0.542	0.205	9.330	0.00
AVG	6.717	7.7	6.7	<0.1	2.327	6.2	6.6	<0.1	0.012	2.6	4.4	<0.1	0.063	10.1	7.2	ND	0.424	0.204	9.514	
TOTAL	201.510				69.814				0.364				1.891				12.734	6.122	285.430	0.00

Unified Beach Monitoring #1

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: June 2021
REPORT DUE: August 1, 2021
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 1119
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	06/03/21	1115	<20	<20	2	None	None	None	None	Green	61	Slightly Turbid		
S1	06/03/21	1125	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	06/03/21	1100	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	06/03/21	1050	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
S3	06/03/21	1135	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	06/03/21	1140	20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S5	06/03/21	1150	20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB1	06/03/21	1200	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	06/03/21	1105	<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 exce 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: June 2021
REPORT DUE: August 1, 2021
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 0914
Weather: Clear
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	06/08/21	0720	<20	<20	<2	None	None	None	None	Green	70	Slightly Turbid		
S1	06/08/21	0730	<20	<20	6	None	None	None	None	Green		Slightly Turbid		
S2	06/08/21	0710	60	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	06/08/21	0705	150	<20	20	None	None	None	None	Green		Turbid		
S3	06/08/21	0735	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	06/08/21	0735	<20	<20	<2	None	None	None	None	Green		Turbid		
S5	06/08/21	0745	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB1	06/08/21	0755	<20	<20	10	None	None	None	None	Green		Slightly Turbid		
SJC1	06/08/21	0722	<100	<100	<10	None	None	None	None	Green		Turbid		

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

Unified Beach Monitoring #3

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: June 2021
REPORT DUE: August 1, 2021
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 0731
Weather: Clear
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	06/15/21	0645	<20	<20	2	None	None	None	None	Green		Turbid		
S1	06/15/21	0650	<20	<20	<2	None	None	None	None	Green		Turbid		
S2	06/15/21	0639	<20	<20	2	None	None	None	None	Green		Turbid		
DSB5	06/15/21	0634	240	<20	68	None	None	None	None	Green	68	Turbid		
S3	06/15/21	0655	20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	06/15/21	0655	<20	<20	<2	None	None	None	None	Green		Turbid		
S5	06/15/21	0900	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB1	06/15/21	0905	20	<20	<2	None	None	None	None	Green		Turbid		
SJC1	06/15/21	0645	<100	<100	<10	None	None	None	None	Green		Turbid		

RECEIVING WATER LIMITATIONS:Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exce 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: June 2021
REPORT DUE: August 1, 2021
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 1008
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	06/24/21	0836	<20	<20	6	None	None	None	None	Green		Turbid		
S1	06/24/21	0848	<20	20	4	None	None	None	None	Green	64	Turbid		
S2	06/24/21	0812	40	<20	6	None	None	None	None	Green	63	Turbid		
DSB5	06/24/21	0755	100	100	30	None	None	None	None	Green	65	Slightly Turbid		
S3	06/24/21	0853	<20	<20	8	None	None	None	None	Green	64	Turbid		
DSB4	06/24/21	0854	20	<20	4	None	None	None	None	Green		Turbid		
S5	06/24/21	0907	<20	<20	2	None	None	None	None	Green		Turbid		
DSB1	06/24/21	0913	<20	<20	<2	None	None	None	None	Green		Turbid		
SJC1	06/24/21	0835	100	<100	<10	None	None	None	None	Green		Turbid		

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

Unified Beach Monitoring #5

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: June 2021
REPORT DUE: August 1, 2021
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 0744
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	06/29/21	0830	20	<20	2	None	None	None	None	Green	69	Turbid		
S1	06/29/21	0835	20	<20	4	None	None	None	None	Green		Turbid		
S2	06/29/21	0815	<20	<20	4	None	None	None	None	Green		Turbid		
DSB5	06/29/21	0810	<20	<20	6	None	None	None	None	Green		Turbid		
S3	06/29/21	0840	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	06/29/21	0840	<20	<20	<2	None	None	None	None	Green		Turbid		
S5	06/29/21	0845	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB1	06/29/21	0850	<20	<20	2	None	None	None	None	Green	69	Turbid		
SJC1	06/29/21	0830	<100	<100	<10	None	None	None	None	Green		Turbid		

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

Unified Beach Water Quality Sample Stations - SJCOO

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

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: June 2021 REPORT FREQUENCY: Monthly
REPORT DUE: August 1, 2021
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: Choppy; High Tide 914; Foam observed at sites N5-N3; Leaves along outfall s

Station No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris
A-1	Surface	06/23/21	20	10	4	923	0	0
A-1	Mid depth	06/23/21	210	250	50			
A-2	Surface	06/23/21	<2	<2	<2	928	0	0
A-2	Mid depth	06/23/21	30	30	<10			
A-3	Surface	06/23/21	<2	<2	<2	945	0	0
A-3	Mid depth	06/23/21	<10	<10	<10			
A-4	Surface	06/23/21	8	8	4	955	0	0
A-4	Mid depth	06/23/21	200	140	30			
A-5	Surface	06/23/21	<2	2	<2	950	0	0
A-5	Mid depth	06/23/21	10	10	<10			
B-1	Surface	06/23/21	10	8	<2	920	0	0
B-1	Mid depth	06/23/21	<10	<10	<10			
B-2	Surface	06/23/21	<2	2	<2	1010	0	0
B-2	Mid depth	06/23/21	20	20	<10			
N1	Surface	06/23/21	2	<2	2	915	0	0
N2	Surface	06/23/21	26	<2	<2	914	0	0
N3	Surface	06/23/21	30	<2	2	912	0	0
N4	Surface	06/23/21	20	10	4	910	0	0
N5	Surface	06/23/21	4	<2	2	907	0	0
N6	Surface	06/23/21	4	8	<2	905	0	0

0 - None
1 - Mild
2 - Moderate
3 - Severe

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

Compliance Summary Report
San Juan Creek Ocean Outfall 2021

SJCOO Permit Order No. R9-2012-0012							
Agency	**Violation Date**	**Constituent**	**Effluent Limit Violation**	**Units**	**Permit Limit**	**Reported Value**	**Potential Fine**
No violations during this reporting period.							

SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2021
Order No. R9-2012-0012 ~ 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 reporting period.							

Recycled Water Report

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SOCWA - RTP	1/7/2021	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - RTP	1/7/2021	TDS	12-Month	mg/L	1000	1141	
SOCWA - RTP	1/7/2021	Iron	12-Month	mg/L	0.30	0.47	
MNWD - 3A	1/11/2021	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	1/11/2021	TDS	12-Month	mg/L	1000	1112	
SOCWA - CTP	1/7/2021	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	2/2/2021	Manganese	12-Month	mg/L	0.05	0.13	
SOCWA - RTP	2/2/2021	TDS	12-Month	mg/L	1000	1170	
SOCWA - CTP	2/6/2021	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	3/2/2021	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - RTP	3/2/2021	TDS	12-Month	mg/L	1000	1160	
SOCWA - CTP	3/2/2021	Manganese	12-Month	mg/L	0.05	0.05	
SOCWA - CTP	4/6/2021	Manganese	12-Month	mg/L	0.05	0.05	
SOCWA - RTP	4/6/2021	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	4/6/2021	TDS	12-Month	mg/L	1000	1160	
MNWD - 3A	4/24/2021	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	4/24/2021	TDS	12-Month	mg/L	1000	1260	
SOCWA - RTP	4/30/2021	Coliform	30 Day Mean	MPN/100mL	23	25.6	
MNWD - 3A	5/24/2021	TDS	12-Month	mg/L	1000	1130	
MNWD - 3A	5/24/2021	TDS	Daily Maximum	mg/L	1100	1110	
MNWD - 3A	5/24/2021	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - RTP	5/4/2021	Iron	12-Month	mg/L	0.3	0.34	
SOCWA - RTP	5/4/2021	TDS	12-Month	mg/L	1000	1138	
SOCWA - RTP	5/4/2021	TDS	Daily Maximum	mg/L	1100	1260	
SOCWA - RTP	5/4/2021	Manganese	12-Month	mg/L	0.05	0.11	
MNWD - 3A	5/24/2021	TDS	12-Month	mg/L	1000	1131	
MNWD - 3A	5/24/2021	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	6/1/2021	Iron	12-Month	mg/L	0.3	0.36	
SOCWA - RTP	6/1/2021	TDS	12-Month	mg/L	1000	1140	
SOCWA - RTP	6/1/2021	TDS	Daily Maximum	mg/L	1100	1210	

SOCWA - RTP	6/1/2021	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - CTP	6/1/2021	Manganese	12-Month	mg/L	0.05	0.07	
TCWD - RRWRP	6/17/2021	Iron	12-Month	mg/L	0.05	0.46	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: June 30, 2021

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	930	992	865	900	1,131	1,140	961
Chloride	mg/L	375	224	218	200	260	225	253	240
Sulfate	mg/L	400	245	290	235	210	311	340	273
Sodium	mg/L	None	213	165	155	193	187	180	147
Alkalinity	mg/L	None	-	-	-	-		258	211
Adjusted SAR	Ratio	None	50.35	4.56	4.67	5.91	4.13	4.21	4.01
Iron	mg/L	0.3	0.131	0.031	0.128	0.010	0.14	0.359	0.113
Manganese	mg/L	0.05	0.019	0.029	0.040	0.008	0.07	0.106	0.067
MBAS	mg/L	0.5	<0.03	0.15	0.15	0.29	ND	<0.08	<0.10
Boron	mg/L	0.75	0.343	0.358	0.348	0.433	0.39	0.380	0.30
Fluoride	mg/L	None	0.54	0.708	0.53	0.58	0.93	1.01	0.78
Total Organic Carbon	mg/L	None	7.6	13.5	12.6	9.0	2.6	10.7	8.3

*** 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)
2021

Agency	Facility or Region	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	Jul '21	Aug '21	Sep '21	Oct '21	Nov '21	Dec '21	Annual Totals
CSJC 1	3-A Plant/MNWD	0.00	0.00	1.00	4.00	0.00	1.73							6.73
CSJC 2	Chiquita/SMWD	18.21	22.92	28.95	33.86	33.68	40.39							178.01
CSJC 3	Non-Domestic Well	0.00	0.00	0.05	15.85	35.83	33.63							85.36
ETWD	Region 8	53.03	75.50	79.89	171.14	198.26	224.63							802.45
IRWD														
[4]	IRWD - 8	66.48	39.90	59.73	129.00	147.62	174.11							616.85
[4]	IRWD - 9	23.71	19.32	36.02	78.54	78.94	97.80							334.34
SCWD	SOCWA CTP	68.70	42.73	52.98	106.27	98.15	114.17							483.00
MNWD	JRP	151.70	275.99	386.65	551.51	567.82	536.90							2470.56
	3-A Plant	59.99	0.00	0.00	5.83	143.27	142.88							351.97
[5]	CTP	29.42	2.50	2.92	10.48	6.02	26.07							77.42
SMWD	Oso Creek	148.61	121.98	141.01	126.41	145.30	141.66							824.97
	Chiquita	438.61	284.46	285.90	454.13	507.69	472.52							2443.29
	Nichols	1.61	1.50	1.71	1.67	1.89	2.00							10.38
TCWD	RRWRP	50.41	43.87	52.48	49.01	46.43	43.01							285.20
TOTALS		1110.47	930.66	1129.30	1737.71	2010.88	2051.50							8970.52

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 4G

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report, June and July 2021
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

SOCWA adopted Pretreatment Ordinance 2020-1 on October 1, 2020. Member agencies (MAs) continue the process of amending their individual pretreatment ordinances. SCWD adopted its Ordinance changes on June 24, 2021. CSC Staff have confirmed plans to adopt the changes during its August 17th City Council meeting. Once finalized, all SOCWA MAs will have updated Pretreatment Ordinances.

SCWD is in process of updating its District Policy of *Acceptance of Dry Weather Diversions (Urban Runoff) into the South Coast Water District Sewer Collection System*. The Policy mirrors SOCWA's *Policy for Acceptance of Interim Dry Weather Nuisance Flow to the Wastewater Collection, Treatment and Disposal System* ("Nuisance Flow Diversion Policy). SOCWA Staff will be reaching out to other MAs to discuss development and adoption of similar individual policies.

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:

CSJC/SMWD – SWD Permit Nos. CSJC-4-002-09-25 and SOCWA-4-001-08-25 - Two new permits will be issued to SMWD for discharge to sewer facilities associated with the following facilities: 1.) Groundwater Recovery Plant (GWRP) located at 32470 Paseo Adelanto and 2.) North Open Space Pump Station and Settling Basin located at 30291Camino Capistrano. In anticipation of SMWD annexing CSJC, SOCWA Staff is preparing to terminate existing permits issued to CSJC and to reissue new permits which replace CSJC with SMWD as the new operator and permit holder.

CSJC/SMWD – NSWD Permit No. CSJC-N4-001-08-22 - Alipaz Diversion – Shortly after SMWD annexes CSJC, Staff will terminate the existing Alipaz Diversion permit and will reissue with

SMWD replacing CSJC as co-issuer with SOCWA. Under the annexation, SMWD will assume CSJC's rights and obligations under this permit.

CSJC/SMWD – WD Permit No. CSJC-2-001-12-22 Rancho Mission Viejo Riding Park – In anticipation of SMWD annexing CSJC, Staff is in discussion with legal regarding re-issuance of a new permit replacing CSJC with SMWD as the new permit issuer.

MNWD – WD Permit No. MNWD-Z1-001-06-26 - NuVasive Orthopedics- The site submitted a WD Permit Application on May 10, 2021 requesting issuance of a zero-discharge permit. Recent inspection findings confirmed that the site performs light passivation with no discharge from the process to the sewer. Therefore, a Zero-Categorical Industrial User WD Permit was drafted and issued on June 18, 2021. The permit has an effective date of June 20, 2021 and expires June 19, 2026

SMWD – WD Permit No. SMWD-1-003-07-26 – Applied Medical (Fabricated Rubber) – The renewal permit application was received in June 2021 and a renewal permit was issued to the Applied Medical facility located at 22982 Arroyo Vista, Rancho Santa Margarita, CA 92688 on July 20, 2021.

ETWD – SWD Permit No. ETWD-4-004-07-23 - Caltrans Construction - Project located at the intersection of the Aliso Creek Bikeway and the Interstate 5 Freeway. SOCWA received a permit application on June 17, 2021 requesting to discharge groundwater, associated with trenching efforts, to sewer facilities. A two-year term permit with pretreatment and monitoring requirements was issued on July 6, 2021.

MNWD/SMWD – SWD Permit No. SOCWA-4-006 – US Alliance Holden Forbes – US Alliance submitted a permit application on June 23, 2021 requested to discharge groundwater, associated with trenching efforts, to sewer facilities (specifically the Oso-Trabuco trunkline). The proposed discharge would commence November 2021 and likely last no more than six months. Staff is in the process of drafting a permit for MA Staff to review.

Trainings and Committee Meetings Attended

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

SOCWA Staff attended the 2021 CWEA Virtual Conference on June 7-10, 2021. Sessions attended presented on topics such as stormwater treatment, PFAS, biosolids management, effective communication skills, Pure Water San Diego, and CA Air Resources Board initiatives. Staff also attended the session featuring a virtual tour of Encina's WWTP.

SOCWA Staff attended the CWEA P3S Virtual Toolbelt training on July 13, 2021.

SOCWA Staff participated in a one-day Hazardous Materials Awareness class put on by So-Cal Fire on July 15, 2021 in Fullerton, CA.

Inspections

SOCWA Staff has started 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 June 21, 2021, SOCWA Staff inspected South Coast Fashion Jewelry, Permit No. CSC-1-001, and sampled its process to independently verify compliance with permit requirements and limitations. Inspection results yielded no major findings and sampling results were compliant.

SOCWA – On June 24, 2021 SOCWA Staff inspected the Advanced Purified Water Treatment Facility on Lake Mission Viejo and a Slug Discharge Control Plan Evaluation was performed. Inspection findings are pending. The brine discharge from the facility was sampled on July 7, 2021. All sampling data completed to date is compliant with permit limits and SOCWA local limits.

IRWD – On July 7, 2021, SOCWA/IRWD Staff jointly inspected Streamline Finishes, located at 26429 Rancho Parkway South, Suite 140, Lake Forest, CA 92630 in response to an anonymous complaint of paint being discharged to sewerage facilities received and forwarded by City of Lake Forest Staff. Staff observed paint staining around sewer clean-out in garage area. Staff did not observe paint in down-pipe manhole. Site was asked to provide manifests for disposing of hazardous waste paint materials. Site provided letter from Sherwin Williams stating participation in CA Clean Paint program. Staff referred site to OC CUPA for follow-up hazardous waste management inspection.

ETWD – On July 9, 2021, Staff inspected pretreatment equipment associated with issuance of SWD Permit for Caltrans and prior to commencement of discharge to sewer facilities.

CSC – Staff performed sampling of process wastewater generated from Reynard on July 13-14, 2021. Staff waited to perform sampling after completion of on-site construction activities and establishment of new process areas. Additionally, the sampling was conducted in follow-up to the inspection performed in April 2021 and reduction of self-monitoring requirements due to an established history of compliance showing non-detect values for several local limits.

Enforcement

IRWD - Staff issued a warning notice of non-compliance (WNON) on June 17, 2021 to Beacon Bay for violation of a permit limit. A sample collected on May 27, 2021 exceeded the permit limit of non-detect (or < analytical RL) for Benzene, measuring at 1.6 µg/L. IU Staff reported the violation within 24 hrs., on the same day as the lab reporting date of June 9, 2021. The site performed system maintenance and re-sampling was conducted and results showing benzene in compliance was submitted within 30-days of becoming aware of the violation. SOCWA considers this enforcement action resolved.

CSC – Staff issued a WNON to Reynard on June 30, 2021 for submittal of a late report. The May 2021 self-monitoring report (SMR) was due by June 20, 2021 but was not received until June 30, 2021. The June 2021 SMR was received on time, by July 20, 2021. SOCWA considers this enforcement action resolved.

Summary of IWS Activities in the SOCWA Service Area - YTD through July 21, 2021

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSEs	DSEs	Closed	Enforcement	Total IUs
CLB (S)	0	3	2	5	8	110	25	0	0	128
CSC (S)	6	10	35	18	181	1295	58	0	1	1597
CSJC (S)	1	3	27	59	137	1666	38	0	1	1930
ETWD (M)	2	4	87	0	262	132	84	0	0	568
EBSD (U)	2	1	0	0	0	0	0	0	0	1
IRWD (S)	4	4	51	21	63	937	24	0	1	1100
MNWD (S)	50	4	123	39	632	2089	202	14	0	3089
SMWD (S)	39	6	19	20	209	800	79	5	0	1133
SCWD (S)	0	8	33	7	148	182	27	0	0	405
TCWD (S)	0	11	0	0	0	33		0	0	44
SOCWA (S)	0	8	1	0	0	0		0	0	9
Totals	70	61	378	169	1637	7236	535	11	1	**10004**

(S) = SOCWA conducts PT program NIWD = Non-industrial Waste Discharger YTD = Year to Date
(M) = MA conducts PT program /w SOCWA BMP = Best Management Practices OSE = Other Surveyed Establishment
(U) = Urban Diversion Only FSE = Food Service Establishment DSE = Dental Surveyed Establishment

Agenda Item 4H

Board of Directors Meeting
Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: Capital Improvement Program Status Report

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

Below are photos of the major construction projects currently underway at SOCWA facilities.

JB Latham Package B
Plant 1 Basin Repairs, DAF Rehabilitation, Energy Building seismic retrofit and minor rehabilitation, Digester 4 rehabilitation:

Work has begun in the Plant 1 Primary Tanks (left) and work continues on DAFT No. 2 (right)

III

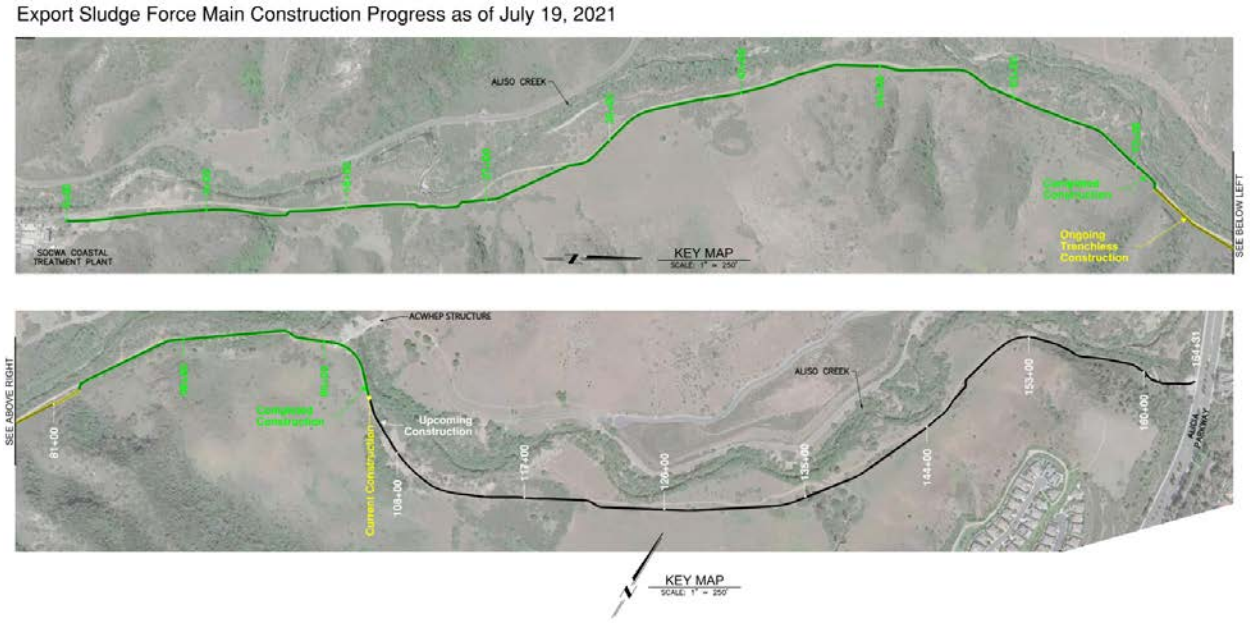
III

III

Coastal Treatment Plant Facility Improvments
New ferric chloride system, new collection equipment in East Sedimentation basins, concrete repair, structural improvements, new switchgear and numerous electrical upgrades:

The new ferric chloride system is nearing completion (left). Final electrical work being completed (right).

Coastal Treatment Plant Sludge Force Main Replacement
New 6-inch HDPE force main replacing ageing 4-inch (x2) lines from the Coastal Treatment Plant to the Regional Treatment Plant through Aliso Canyon:



HDPE piping being installed (left). Path for new sludge line being cut through edge of ACWHEP Structure (right).

SOCWA CIP Workplan

Project Number	Project Name	FY 22 Budget	FY 23 Budget	Status	FY 2021/2022				FY 2022/2023			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 2 - J.B. Latham Treatment Plant												
3220/3231/3287	Facility Improvements B	$ 7,050,000	$ -	In Construction	C	C	C	C				
32225C/S	Energy Building Upgrades	$ 1,580,000	$ 2,370,000	In Design	D	D	D	D	B&A	C	C	C
32226L	Effluent Pump Station Upgrades	$ 375,000	$ 2,125,000	In Design	D	D	D	D	B&A	C	C	C
32223C	Drainage Pump Station Reconstruction	$ 133,937	$ 44,646			D	C	C	C			
42221C	Site Storage Evaluation	$ 60,975	$ -			P	P	P				
42222C	Electrical Conduit and Cable Master Plan	$ 60,975	$ -		P	P						
52222C	NFPA 70 Classification Mapping	$ 30,000	$ -			P	P					
52223C	DHS Facility Compliance Review	$ 17,500	$ 17,500					P	P			
52221C	Arc Flash 5-Year Update	$ 8,000	$ -				P					
42232C	Chlorine Building and Storm Water Pump Station Condition Assessment	$ -	$ 50,223						CA	CA		
32233L	Plant 1 Grit Handling	$ -	$ 50,703								CA	CA
42231L	Influent Flow Metering Evaluation	$ -	$ 50,922						CA	CA		
42233C	Buried Utility Master Plan	$ -	$ 152,438								P	P
3285-000	Main Plant Drain Line Reconstruction (2018)	$ -	$ 223,136							D	D	B&A
32231S	Gas Flare Replacement	$ -	$ 263,384									D
32234L	Chlorine Contact Basin Isolation Gates and Structural Rehabilitation	$ -	$ 331,471						D	B&A	C	C
PC 5 - San Juan Creek Ocean Outfall												
56221O	Outfall Port Cleaning	$ 45,000	$ -			ENV	ENV					
36221O	Surge System Air Valve Replacement	$ -	$ 39,062							C		
46211O	Land Outfall Facility Condition Assessment	$ -	$ 52,326							CA	CA	
46221O	Marine Outfall Core Sample and Condition Assessment	$ -	$ 90,000								CA	CA

SOCWA CIP Workplan

Project Number	Project Name	FY 22 Budget	FY 23 Budget	Status	FY 2021/2022				FY 2022/2023			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 15 - Coastal Treatment Plant												
3541-000	Export Sludge System Construction (2020)	$ 3,248,233	$ 1,392,100	In Construction	C	C	C	C	C	C		
3539-000	Facility Construction Improvements	$ 2,500,000	$ -	In Construction	C							
35228L	Aeration Blower System Upgrades	$ 1,600,000	$ 6,400,000	Diffusers purchased for installation in FY22. Blower design in FY23.	D	B&A	C	C	D	B&A	C	C
3522CL	West Basin Scum Collection System	$ 400,000	$ -		D	B&A	C	C				
3522AL	Drainage Pump Station	$ 175,000	$ -				CA	CA				
3525-000	Personnel Building Reconstruction	$ 150,000	$ -	In Design	B&A	C	C					
3522BL	Headworks Upgrades	$ 125,000	$ -		P	P						
35221L	Auxiliary Blower and Maintenance Building Roofs	$ 100,000	$ 100,000			P	P	B&A	C	C		
35229L	Foul Air System	$ 76,422	$ -			P						
35220L	Fiber Installation to Alicia Parkway	$ 65,000	$ -			B&A	C	C				
45212L	Site Storage Evaluation	$ 50,000	$ -			P	P	P				
45226L	Consequence of Failure Analysis	$ 50,000	$ -			P	P					
55222L	NFPA 70 Classification Mapping	$ 30,000	$ -			P	P					
35221A	Contact Basin Gate	$ 25,000	$ 225,000					D	B&A	C		
55221L	DHS Facility Compliance Review	$ 17,500	$ 17,500					P	P			
35231L	Vehicle Storage Building Mezzanine Upgrades	$ -	$ 85,000						C	C		
35232L	South Embankment Protection	$ -	$ 175,000							B&A	C	C
35233L/36L	Scum Pump Station and Wet Well	$ -	$ 289,284							B&A	C	C
35234L	RAS/WAS Pump Station	$ -	$ 83,705						D	D		
35235L	Odor Control Scrubber/Foul Air System Reconstruction	$ -	$ 36,719									D
35237L	Electrical Manhole/Cable Project	$ -	$ 85,000								CA	CA

SOCWA CIP Workplan

Project Number	Project Name	FY 22 Budget	FY 23 Budget	Status	FY 2021/2022 Q1	FY 2021/2022 Q2	FY 2021/2022 Q3	FY 2021/2022 Q4	FY 2022/2023 Q1	FY 2022/2023 Q2	FY 2022/2023 Q3	FY 2022/2023 Q4
PC 17 - Regional Treatment Plant												
3758-000	AWT No.2 Reconstruction (2020)	$ 2,271,932	$ -		B&A	C	C					
3753-000	Aeration Diffuser Upgrade (2020)	$ 1,750,000	$ -	In Construction	C	C						
3722CL	Aeration Basin, Gate, and Blower Upgrades	$ 710,000	$ 4,615,000				D	D	B&A	C	C	C
37222C	SCADA System Upgrade Project	$ 387,131	$ -		P	P	C	C				
3759-000	AWT No.2 Electrical Upgrades (2020)	$ 348,070	$ -		B&A	C	C					
37227C	Energy Building Upgrades	$ 312,500	$ 312,500			CA	CA	D	B&A	C	C	
3773-000	Co-Generation System Modifications (2020)	$ 290,689	$ -		P	P	C	C				
3722BL	Mixed Liquor Channel	$ 284,154	$ -			D	D	D				
3776	Effluent Pond Gate Replacement	$ 249,885	$ -		B&A	C	C					
47212C	Site Storage Evaluation	$ 81,300	$ -			P	P	P				
37229C	Laboratory Reconstruction	$ 76,500	$ -			P	P	P				
47222L	Secondary Effluent Conveyance Evaluation	$ 52,621	$ -		P	P						
37220L	Interstage Pump Station	$ 52,346	$ -				D	D				
37228C	West Side Storm Channel Reconstruction	$ 50,000	$ 200,000			D	D	B&A	C	C		
47224C	Consequence of Failure Analysis	$ 50,000	$ -				P	P				
37221C	West Slope Protection	$ 39,000	$ 156,000			D	D	B&A	C	C		
57221C	NFPA 70 Classification Mapping	$ 30,000	$ -			P	P					
3756-000	Secondary Clarifier Safety Repairs (2020)	$ 29,750	$ 55,250				D	D	B&A	C	C	C
57222C	DHS Facility Compliance Review	$ 17,500	$ 17,500					P	P			
57223C	Arc Flash 5-Year Update	$ 8,000	$ -					P				
3722AL/C/S	MCC A, C, G, H Replacement	$ -	$ 1,527,741	In Design					B&A	C	C	C
37230C	Admin. Bldg. Door and Window Repair	$ -	$ 132,748							B&A	C	C
37232L/C	Site Lighting Upgrades	$ -	$ 797,923							C	C	C
37237C	Instrumentation Plan	$ -	$ 100,446								P	P
37233L	Secondary Scum Pump Station Reconstruction	$ -	$ 645,542						D	D	B&A	C
37234L	RAS System Upgrades	$ -	$ 55,803							CA	CA	
37235L	Primary Sedimentation Collectors and Gates	$ -	$ 100,898									D
37238L	Grit Handling	$ -	$ 63,145						D	D		
37231S	Solids Area Overhaul Plan	$ -	$ 100,446							P	P	
37239S	Digester System Condition Assessment	$ -	$ 94,865								CA	CA

SOCWA CIP Workplan

Project Number	Project Name	FY 22 Budget	FY 23 Budget	Status	FY 2021/2022 Q1	FY 2021/2022 Q2	FY 2021/2022 Q3	FY 2021/2022 Q4	FY 2022/2023 Q1	FY 2022/2023 Q2	FY 2022/2023 Q3	FY 2022/2023 Q4
PC 21 - Effluent Transmission Main												
3107-000 (B/C/D)	Air Valve Replacement Construction (D) (2021)	$ 377,778	$ -	In Design		B&A	C	C				
31221B	Trail Bridge Crossing (D)	$ 360,000	$ 840,000			D	D	D				
31222B	Aliso ETM Reach B/C Techite Replacement	$ 292,000	$ 292,000				P	P	P			
3108-000 (E)	Air Valve Replacement Construction (E) (2021)	$ 472,222	$ -	In Design		B&A	C	C				
PC 24 - Aliso Creek Ocean Outfall												
3480-000	Internal Seal Replacement	$ 175,000	$ -			B&A	C	C				
34222O	Golf Course Road	$ 45,000	$ -			CA	CA					
54221O	Outfall Port Cleaning	$ 45,000	$ -				ENV	ENV				
34231O	Metering and Sampling	$ -	$ 66,964							C	C	
34232O	Creek Section Pipeline Replacement	$ -	$ 50,703							P	P	

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

Agenda Item 4I

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: PC-2, PC-15, & PC-17 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: Capital Improvement Program Project Financial Status and Change Orders [Project Committees 2, 15, & 17]

Summary/Discussion

The attached CIP Report shows the financial status of the five major construction projects as well any potential and Engineering Committee reviewed change orders. Please note that there are two new change orders for PC 15 Coastal Treatment Plant Facility Improvements Project totaling $4,210.

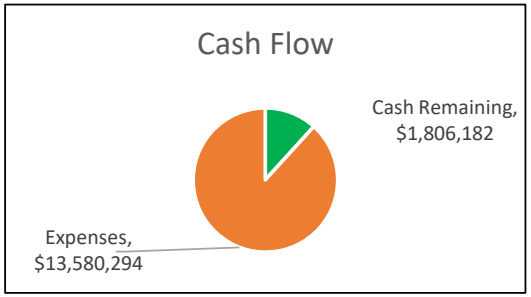
Recommended Action: The Engineering Committee recommends to the PC-15 Board of Directors to approve PCL Change Orders 25 and 26 for a total of $4,210.

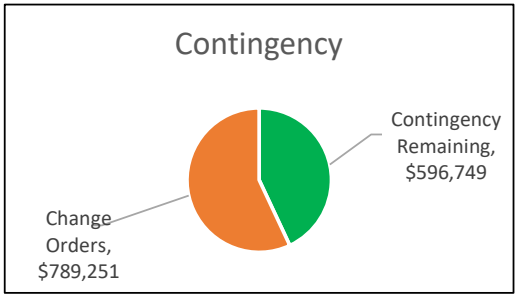
Project Financial Status

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

July 19, 2021





Cash Flow

Collected	$15,386,476
Expenses	$13,580,294

Project Completion

Schedule	79%
Budget	63%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Olsson	13497	$ 17,325,000	$ 561,634	$ 17,886,634	$ 10,668,328
Butier	13647	$ 895,727	$ -	$ 895,727	$ 895,727
Carollo	13616	$ 846,528	$ 227,617	$ 1,074,145	$ 845,855
TetraTech	13605	$ 94,000	$ -	$ 94,000	$ 81,837
		$ 19,161,255	**$ 789,251**	**$ 19,950,506**	**$12,491,747**

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	$ 616,800	$ 244,540	$ 372,260	39.6%
Common	3231-000	$ 96,800	$ 18,210	$ 78,590	18.8%
Solids	3287-000	$ 672,400	$ 526,501	$ 145,899	78.3%
		$ 1,386,000	**$ 789,251**	**$ 596,749**	**56.9%**

Summary of New Change Orders

Change Order No	CSJC	MNWD	SCWD	SMWD	Amount
Grand Total					

Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	Olsson	3287-000	Addition of Loop Piping to the Existing Hot Water Lines Adjacent to Digester 3	Approved by Board of Directors	12/12/2019		$ 4,725
2	Olsson	3287-000	Asbestos Gaskets in Boiler hazardous disposal	Approved by Board of Directors	6/4/2020		$ 6,343
3	Olsson	3287-000	Add Analog Infrastructure and Cabling	Approved by Board of Directors	6/4/2020		$ 37,970
4	Olsson	3287-000	Digester 4 Coating Additional Sealant	Approved by Board of Directors	6/4/2020		$ 24,002
5	Olsson	3220-000	Valve Handwheel Ergonomic extension	Approved by Board of Directors	8/6/2020		$ 16,370
6	Olsson	3287-000	Change to DeZurik Plug Valves to match existing	Approved by Board of Directors	8/6/2020		$ 41,994
7	Olsson	3287-000	Digester 4 Additional Concrete Repair	Approved by Board of Directors	8/6/2020		$ 7,413
8	Olsson	3287-000	Repair Existing Damaged Electrical Box	Approved by Board of Directors	8/6/2020		$ (1,829)

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
9	Olsson	3220-000	Change the Telescoping Valve Boxes and Piping from Carbon Steel to Stainless Steel	Approved by Board of Directors	8/6/2020		$ 18,678
10	Olsson	3287-000	Duct bank J Interferences	Approved by Board of Directors	12/17/2020		$ 73,639
11	Olsson	3220-000	Blasting of Existing Influent Pipe Spools	Approved by Board of Directors	12/17/2020		$ 20,869
12	Olsson	3220-000	Duct bank K Interferences	Approved by Board of Directors	12/17/2020		$ 15,567
13	Olsson	3287-000	Digester 3/4 PLC Relocation	Approved by Board of Directors	12/17/2020		$ 41,368
14	Olsson	3287-000	Digester 4 Additional Tank Repair	Approved by Board of Directors	12/17/2020		$ 33,643
15	Olsson	3220-000	Duct bank O Interferences	Approved by Board of Directors	12/17/2020		$ 1,687
16	Olsson	3287-000	Digester 3/4 Control Building Roof Replacement	Approved by Board of Directors	2/4/2021		$ 42,780

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
17	Olsson	3287-000	MCC-D1 Modifications due to Change in Motor Size	Approved by Board of Directors	5/6/2021		$ 34,392
18	Olsson	3287-000	Integrator Additional Site Visits	Approved by Board of Directors	5/6/2021		$ 7,572
19	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	Approved by Board of Directors	6/3/2021		$ 29,417
20	Olsson	3220-000	Overhead Walkway Removal at Plant 1 Secondary Basins 5 through 9	Approved by Board of Directors	6/3/2021		$ 62,114
21	Olsson	3287-000	Cogeneration PLC Modifications and Integration	Approved by Board of Directors	6/3/2021		$ 42,923
1ESDC Common	Carollo	3231-000	ESDC Change Order No. 1	Approved by Board of Directors	6/3/2021		$ 18,210
1ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 1	Approved by Board of Directors	6/3/2021		$ 109,256
1ESDC Solids	Carollo	3287-000	ESDC Change Order No. 1	Approved by Board of Directors	6/3/2021		$ 100,151
PCO 002	Olsson	3287-000	Digester 4 Rail Coating. The coating is not needed and resulting in a credit but some rehabilitation work will be needed.	Potential Change	(blank)	-$1,000	

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 004	Olsson	3287-000	Digester 4 Control Narrative needed	Potential Change	(blank)	$5,000	
PCO 005	Olsson	3287-000	TWAS Slab Modifications	Potential Change	(blank)	$50,000	
PCO 008	Olsson	3287-000	Conduit Routing Conflict from MCC-F1 and Relocation of MCC-F1	Potential Change	(blank)	$350,000	
PCO 009	Olsson	3287-000	PLC East Headworks Integration	Potential Change	(blank)	$10,000	
PCO 012	Olsson	3287-000	PCL-CG Integration	Potential Change	(blank)	$5,000	
PCO 014	Olsson	3287-000	Digester 4 Compressor Supply Line	Potential Change	(blank)	$18,146	
PCO 018	Olsson	3287-000	Duct bank L Interferences	Potential Change	(blank)	$10,000	
PCO 026	Olsson	3287-000	Gas Hatch Lids Mating Connection	Potential Change	(blank)	$7,771	
PCO 028	Olsson	3287-000	4" Gas Line Routing Modifications	Potential Change	(blank)	$18,147	
PCO 032	Olsson	3287-000	Gas Mixer Conduit Conflict	Potential Change	(blank)	$12,384	
PCO 037	Olsson	3231-000	Energy Building Monorail and Other Conflicts	Potential Change	12/10/2020	$10,000	
PCO 039	Olsson	3220-000	Diversion Structure Gate Actuator Power Feed Replacement	Potential Change	8/13/2020	$5,000	
PCO 050	Olsson	3220-000	Telescoping Valves Rework	Potential Change	12/23/2020	$27,884	
PCO 43	Olsson	3220-000	Telescoping Valve Pipe Support	Potential Change	(blank)	$3,754	

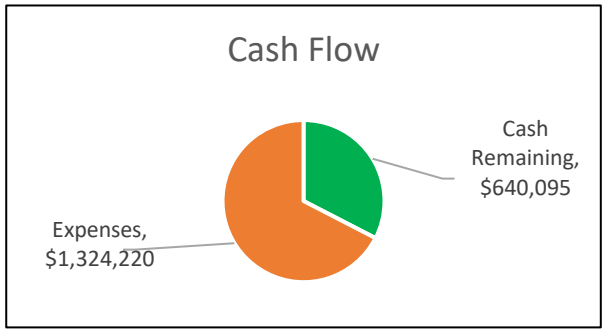
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 46	Olsson	3220-000	UV Protected Wear Strips	Potential Change	(blank)	$29,545	
PCO 66	Olsson	3287-000	DAFT 1 and 2 Repairs	Potential Change	(blank)	$300,000	
PCO 98	Olsson	3220-000	Effluent Pump Station Descope (A1-A6)	Potential Change	(blank)	-$800,000	
PCO 99	Olsson	3223-000	Energy Building Modifications Descope (F1-F4, G1-G2, & H1-H2)	Potential Change	(blank)	-$600,000	
Grand Total						-$538,369	$ 789,251

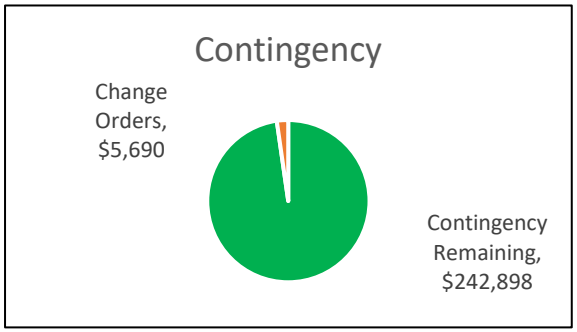
Project Financial Status

Project Committee	15
Project Name	Export Sludge Forcemain Replacement
Project Description	New 6-inch HDPE force main replacing ageing 4-inch (x2) lines from the Coastal Treatment Plant to the Regional Treatment Plant through Aliso Canyon

Data Last Updated

July 19, 2021





Cash Flow

Collected	$1,964,315
Expenses	$1,324,220

Project Completion

Schedule	55%
Budget	31%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	15949	$ 3,107,346	$ 5,690	$ 3,113,036	$ 973,401
Butier	16164	$ 226,100	$ -	$ 226,100	$ 39,950
PSOMAS	15961	$ 277,368	$ -	$ 277,368	$ 31,041
Dudek	15947	$ 387,750	$ -	$ 387,750	$ 153,805
Ninyo & Moore	16268	$ 65,790	$ -	$ 65,790	$ 48,889
		$ 4,064,354	**$ 5,690**	**$ 4,070,044**	**$1,247,085**

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3541-000	$ 248,588	$ 5,690	$ 242,898	2.3%
		$ 248,588	**$ 5,690**	**$ 242,898**	**2.3%**

Summary of New Change Orders

Change Order No	CLB	EBSD	MNWD	SCWD	Amount
Grand Total					

Change Orders

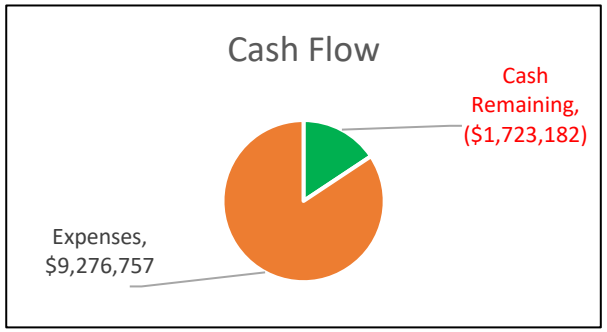
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	Filanc	3541-000	Alternative Fiber Optic Conduit Installation at Jack and Bore	Approved by Board of Directors	6/3/2021		$ 5,690
PCO 001	Filanc	3541-000	HDPE Pipe Price Adjustment	Potential Change	3/26/2021	$18,276	
PCO 002	Filanc	3541-000	Pipe Bedding Material Potential Change	Potential Change	3/26/2021	$0	
PCO 004	Filanc	3541-000	Time Extension Due to Creek Bank Environmental Constraint	Potential Change	3/26/2021	$0	
PCO 005	Filanc	3541-000	Existing 6-Inch Sludge Line Fix for Pressure Test	Potential Change	3/26/2021	$7,964	
PCO 006	Filanc	3541-000	Additional Fiber Optic Conduit (Duplicate PCO)	Potential Change	3/26/2021	$0	
Grand Total						$26,240	$ 5,690

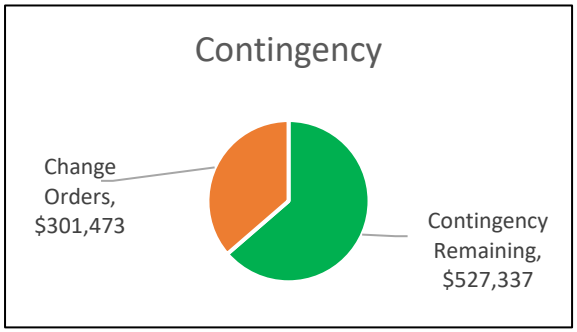
Project Financial Status

Project Committe	15
Project Name	Facility Improvements
Project Descriptio	New ferric chloride system, new collection equipment in East Sedimentation basins, concrete repair, structural improvements, new switchgear and numerous electrical upgrades

Data Last Updated

July 19, 2021





Cash Flow

Collected	$7,553,575
Expenses	$9,276,757

Project Completion

Schedule	89%
Budget	83%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
PCL	13751	$ 9,209,000	$ 301,473	$ 9,510,473	$ 7,935,988
Butier	13647	$ 812,288	$ -	$ 812,288	$ 808,498
Hazen & Sawyer	13648	$ 490,484	$ -	$ 490,484	$ 279,793
		$ 10,511,772	**$ 301,473**	**$ 10,813,245**	**$9,024,279**

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3539-000	$ 828,810	$ 301,473	$ 527,337	36.4%
		$ 828,810	**$ 301,473**	**$ 527,337**	**36.4%**

Summary of New Change Orders

Change Order No	CLB	EBSD	MNWD	SCWD	Amount
25	$406	$32	$314	$320	$1,072
26	$1,190	$94	$918	$937	$3,138
Grand Total	**$1,596**	**$126**	**$1,232**	**$1,257**	**$4,210**

Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	PCL	3539-000	Additional Potholing	Approved by Board of Directors	8/6/2020		$ 22,936
2	PCL	3539-000	Gas Line Replacement	Approved by Board of Directors	8/6/2020		$ 41,006
3	PCL	3539-000	Main Switchgear Building Underground Conflicts	Approved by Board of Directors	8/6/2020		$ 8,683
4	PCL	3539-000	Mud Valve Bolt Removal	Approved by Board of Directors	8/6/2020		$ 6,577
5	PCL	3539-000	Additional Anchor Bolt Removal	Approved by Board of Directors	8/6/2020		$ 15,271
6	PCL	3539-000	Slide Gate Concrete Repair	Approved by Board of Directors	8/6/2020		$ 3,396
7	PCL	3539-000	Sludge Collector Wear Strips	Approved by Board of Directors	8/6/2020		$ 5,304
8	PCL	3539-000	SCE Transformer Slab Box	Approved by Board of Directors	9/3/2020		$ 4,378
9	PCL	3539-000	Duct Bank 5 Buried Utility Conflicts	Approved by Board of Directors	10/1/2020		$ 32,224
10	PCL	3539-000	Telescoping Valve Modifications	Approved by Board of Directors	10/1/2020		$ 36,067
11	PCL	3539-000	Secondary Effluent Channel Improvements	Approved by Board of Directors	12/17/2020		$ 5,153

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
12	PCL	3539-000	Portable Generator Tap Enclosures in Buildings 2 & 15	Approved by Board of Directors	12/10/2020		$ 18,356
13	PCL	3539-000	Conduit, wiring, and mounting of LL1 fixtures	Approved by Board of Directors	12/10/2020		$ 5,001
14	PCL	3539-000	MCC Feeder Credit	Approved by Board of Directors	2/4/2021		$ (8,803)
15	PCL	3539-000	Switchgear Building Concrete Repair	Approved by Board of Directors	3/11/2021		$ 40,144
16	PCL	3539-000	Sludge Collector Mounting Plate Replacement	Approved by Board of Directors	3/11/2021		$ 10,623
17	PCL	3539-000	Basin Leaking Crack Repair in East Secondaries	Approved by Board of Directors	3/11/2021		$ 1,863
18	PCL	3539-000	Additional Spall Repair - Grit Channels	Approved by Board of Directors	3/11/2021		$ 26,405
19	PCL	3539-000	Mixed Liquor Channel Remobilization	Approved by Board of Directors	3/11/2021		$ 5,323
20	PCL	3539-000	Building 10 Roof Repairs	Approved by Board of Directors	3/11/2021		$ 2,245
21	PCL	3539-000	Building 8 Gas Line Rerouting	Approved by Board of Directors	3/11/2021		$ 717

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
22	PCL	3539-000	Additional Spall Repair - East Secondary Basins	Approved by Board of Directors	6/3/2021		$ 9,722
23	PCL	3539-000	Grit Chamber Conflicts	Approved by Board of Directors	6/3/2021		$ 3,888
24	PCL	3539-000	1/2" Ferric Line Conflicts	Approved by Board of Directors	6/3/2021		$ 784
25	**PCL**	**3539-000**	**Helical Skimmer Wiring**	**Within Contingency, to be reviewed by Engineering Committee**	**6/10/2021**		**$ 1,072**
26	**PCL**	**3539-000**	**MCC 15 Unmarked Wire Chasing**	**Within Contingency, to be reviewed by Engineering Committee**	**6/10/2021**		**$ 3,138**
PCO 006	PCL	3539-000	Additional Pothole Paving	Potential Change	(blank)	$5,000	
PCO 013	PCL	3539-000	Ferric Containment Foundation	Potential Change	(blank)	$15,000	
PCO 015	PCL	3539-000	RAS Channel Modification Descope	Potential Change	(blank)	-$2,000	
PCO 016	PCL	3539-000	Spray Water Piping Replacement	Potential Change	(blank)	$1,500	
PCO 024	PCL	3539-000	Drainage Pump Station Descope	Potential Change	(blank)	-$400,000	

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 026	PCL	3539-000	Additional Spall Repair - East Secondary Basins	Potential Change	(blank)	$10,000	
PCO 028	PCL	3539-000	Ops Building Gas Line Relocation	Potential Change	(blank)	$5,000	
PCO 029	PCL	3539-000	Building 15 Concrete Restoration	Potential Change	(blank)	$20,000	
PCO 031	PCL	3539-000	Roll Up Door Fascia	Potential Change	(blank)	$3,000	
PCO 032	PCL	3539-000	DAF Stair Railing	Potential Change	(blank)	-$500	
PCO 035	PCL	3539-000	Grit Chamber Conflicts	Potential Change	(blank)	$20,000	
PCO 038	PCL	3539-000	Aeration Channel Conflicts	Potential Change	(blank)	$8,000	
PCO 044	PCL	3539-000	Building 10 Wall Repair	Potential Change	(blank)	$2,000	
PCO 046	PCL	3539-000	1/2" Ferric Line Conflicts	Potential Change	(blank)	$5,000	
PCO 047	PCL	3539-000	West Telescoping Valve Improvements	Potential Change	(blank)	$25,000	
PCO 048	PCL	3539-000	West Secondary Effluent Channel Concrete Repair	Potential Change	(blank)	$20,000	

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 049	PCL	3539-000	Removal of Scope - West Basin Sludge/Scum Collection Equipment	Potential Change	(blank)	-$300,000	
PCO 050	PCL	3539-000	RAS Box Leaks	Potential Change	(blank)	$0	
PCO 051	PCL	3539-000	Grit Grating Modifications	Potential Change	(blank)	$0	
PCO 053	PCL	3539-000	West Grit Channel Unforeseen Conflicts	Potential Change	3/26/2021	$15,000	
PCO 059	PCL	3539-000	Telescoping Valve Stand Modifications	Potential Change	(blank)	$5,000	
PCO 060	PCL	3539-000	Headworks Roofing Additions	Potential Change	(blank)	$3,500	
PCO 061	PCL	3539-000	Headworks bypass	Potential Change	(blank)	$20,000	
Grand Total						-$519,500	$ 301,473

Agenda Item 5A

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Jason Manning, Director of Engineering

SUBJECT: Coastal Treatment Plant Export Sludge Force Main June 10, 2021 Spill Update [Project Committee 15]

Overview

On Thursday, June 10, 2021, the sludge force main between the Coastal Treatment Plan (CTP) and the Regional Treatment Plant (RTP) experienced a pipeline failure resulting in a spill of sludge within the Aliso and Wood Canyons Wilderness Park. The spill was contained within the access road to the east of Aliso Creek and no sludge reached the creek. The leak was the result of a hole in the top of one of the sludge force mains. The pipe was repaired on the same day as the leak and the site restoration was completed on June 15, 2021. This spill was unrelated to the installation of the new export sludge force main but the construction crew doing the new installation conducted the repair work.

Detailed Summary

The spill was first detected at 10:35 AM by the construction crew working on the new sludge force main. The construction crew quickly deployed straw wattles and built an earthen dam to stop any sludge from entering the creek. CTP staff stopped the pumps and drained the pipe back into the plant, which slowed the leak. South Coast Water District (SCWD) vacuum truck crews responded to the site by noon and removed multiple vacuum truck loads. A biological monitor from Dudek arrived on site to watch for impacts to animals and vegetation.

The leak was approximately 10 feet below ground and a hole was dug to expose the break in the pipe. The section of broken pipe was cut out and replaced with a new section. The repair was completed around 8:30 PM. Then the line was slowly brought back up to pressure to check for any additional leakage. The leak test was completed around midnight.

On Friday June 11, Monday June 14, and Tuesday June 15, the construction crews backfilled the hole with fresh soil and restored the area back to original condition. Biological monitors were present during cleanup to give direction on what to remove from site. The contaminated soil was hauled off site and stored at CTP until it can be disposed of properly. In total, more than 3 vacuum trucks full of sludge and more than 6 dump truck loads of contaminated soil were removed from the site.

SOCWA has notified the appropriate agencies about the spill and has applied for emergency permits and submitted reports as required. This includes the San Diego Regional Water Quality Control Board (SD-RWQCB), California Coastal Commission (CCC), California Department of Fish and Wildlife (CDFW), and Orange County Parks.

Table 1 – Status of Agency Notification

Agency	Status	Notes
SD-RWQCB	Spill report and biological response report provided in the June 2021 CIWQS submittal.	Spill reporting required under NPDES No. CA0107417.
CCC	Initial notification complete	Initial notification on June 10, 2021. CCC staff is recommending approval of the emergency repair waiver in the August 11-13, 2021 CCC meeting.
CDFW	Initial application complete	EPIMS application submitted on June 24, 2021 and accepted as complete. Awaiting further instructions.

SOCWA greatly appreciates the efforts of all the people that helped respond to this leak so quickly and preventing it from reaching Aliso Creek. Special thanks to the SCWD vacuum truck crews, the Filanc construction crew, Butier onsite inspector, Dudek's biological monitors, and the SOCWA staff that worked late into the night.

Figure 1: Leak in road 30 minutes after detection

Figure 2: Earthen dam built to contain leak

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Figure 3: SCWD vacuum truck removing sludge from road from leak pit

Figure 4: SCWD vacuum truck removing sludge

Figure 5: Sludge pit above broken pipe

Figure 6: Excavation to expose pipe break

Figure 7: Hole in sludge force main

Figure 8: Section of pipe removed

Figure 9: New pipe section and couplings

Figure 10: Pipe wrapped prior to backfill

Figure 11: Removal of contaminated soil compacted

Figure 12: Excavation being backfilled and

Recommended Action: Information item, PC-15 Questions/Comments.

Agenda Item 5B

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Jason Manning, Director of Engineering

SUBJECT: J.B. Latham Package B Construction Schedule Update [Project Committee 2]

Overview

On July 13, 2021, SOCWA Staff updated the Project Committee 2 Board Members on the status of the Package B construction project. On July 20, 2021, SOCWA held a Schedule Workshop with the construction management team (Butier Engineers), the contractor (Olsson Construction), SOCWA O&M staff, and SOCWA Engineering. Olsson presented a conservative, high-level schedule and identified the risks with the schedule. All parties will continue to implement detailed schedule review as work proceeds and we will work to reduce further schedule impacts and to gain time where possible. Below is a summary of the workshop.

Summary

Table 1 below shows the original contract completion date, the contractually approved time extension through change orders, and the current conservative completion date.

Table 1 – Package B Substantial Completion Dates

Initial Substantial Completion Date	August 16, 2021
Currently Approved Days	February 1, 2022
Current Estimated Substantial Completion	June 22, 2022

The current risks and opportunities to the schedule are identified below:

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Table – Risks and Opportunities to the Schedule

Item	Risks	Opportunities
MCC F1	The cable tray for the MCC has a current lead time of 16 weeks.	We are considering other materials that can be used as well as work that can be completed in parallel with this to minimize the impact of MCC F1 to the schedule
DAFT No. 1 Repair	DAFT No. 2 had unexpected damage to the internal tank and we expect similar repairs to DAFT No. 1. Other unexpected conditions could cause further delays.	Repair materials have been pre-purchased and methods for repair have already been identified based on experience with DAFT No. 2.
Digester 1 and 2 Cleaning	The current schedule has the SOCWA O&M cleaning as an identified 90-day period after completion of the contractual work on the digesters. Issues with access and any internal repairs may cause a delay to the contractor.	The majority of the SOCWA O&M work can occur concurrently with the contract work. This could significantly improve the schedule.
Material Procurement	We are seeing delays for some materials, including the MCC F1 cable tray. There may be other delivery issues that may cause delays to the schedule.	We have pre-ordered some materials and are also looking at potential substitutions. We are also identifying opportunities to shift work so that procurement delays do not impact the schedule.

The Olsson contract identifies a 90-day period for others to clean the internals one of the two large digesters. The current schedule has those 90 days occurring after Olsson has completed their work on the digester. Olsson's work on Digesters 1 and 2 is solely external. Only O&M staff will be working on the internal portion of the digesters.

If the SOCWA digester cleanings occurs concurrently with the Olsson work (Figure 1), the project could realize schedule savings of up to 60 calendar days. This includes concurrently working on the digesters while new larger access manways are being installed to allow O&M a safe permit-required confined space entry point to clean the digesters.

O&M staff has expressed concerns that the recently updated schedule has a substantial number of shutdowns in quick succession, including shutdowns during the winter months. Also, that the current schedule does not include the final scheduling of the work during the planned bypassing of the primary influent and effluent channels and the new boiler installation. Thus, once Olsson provides its updated project schedule, another comprehensive review of the entire project schedule will be conducted by SOCWA staff. This will be done to more fully understand the

project's critical path, the actual operational impacts, and operational constraints related to the substantial number of shutdowns and other ongoing O&M activities in the Plant.

Figure 1 – Concurrent Digester Work

Recommended Action: Informational item, PC-2 Questions/Comments.

Agenda Item 6A

Board of Directors Meeting
Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Actuarial Valuation Report on Retiree Health Program as of December 31, 2020

Summary/Discussion

An Actuarial Valuation Report on the Authority's Retiree Health Program was completed as of December 31, 2020 and was presented to the Finance Committee on June 15, 2021:

Results of the Retiree Health Valuation

Total OPEB (Accrued) Liability	$10,665,771
Normal Costs or Current Accrual	223,338
Future Service (not yet accrued liability)	1,807,801
Total Actuarial Liability	**$12,696,910**

Net OPEB (Retiree Health) Liability

Description	2020	2021	Positive Change[1]	% Change
Measurement date	6/30/2020	12/31/2020		
Total OPEB Liability	($10,959,190)	($10,665,771)	$293,419	-2.7%
PARS Savings[2]	5,270,639	6,525,637	1,254,998	23.8%
Net OPEB (liability)	($5,688,551)	($4,140,134)	$1,548,417	-27.2%
% Funded	**48.1%**	**61.2%**		

[1]The OPEB Liability as of 12-31-2020 decreased due to:
Lower healthcare costs
Change in Employee population mix
Change in Actuarial Assumptions

[2]PARS Earnings as of 4-30-2021 grew 23.8%

Recommended Action: Staff Recommends that the Board receive and file the report.

South Orange County Wastewater Authority

CONTACT
Suraj Datta, ASA, MAAA, MBA
suraj.datta@nyhart.com

ADDRESS
Nyhart
530 B Street, Ste. 900
San Diego, CA 92101

PHONE
(619)239-0831

Actuarial Valuation
Retiree Health Program
As of December 31, 2020

Mary Carey, CPA, MBA
South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Re: OPEB Actuarial Valuation

Dear Ms. Carey:

We are presenting our report of the December 31, 2020 actuarial valuation conducted on behalf of South Orange County Wastewater Authority (the "Authority") for its retiree health program.

The purpose of the valuation is to measure the Authority's liability for other postemployment benefits (OPEB) and to determine an actuarially determined contribution (ADC). The ADC is a target or recommended contribution to a defined benefit OPEB plan for the reporting period, determined in accordance with the parameters and in conformity with Actuarial Standards of Practice. The valuation results will also serve as the basis for complying with GASB 75 for the fiscal year ending June 30, 2021. A separate GASB 75 accounting report will be provided.

The Nyhart Company is an actuarial benefits and compensation consulting firm specializing in group health and retiree health and qualified pension plan valuations. We have set forth the results of our study in this report.

We have enjoyed working on this assignment and are available to answer any questions.

Sincerely,
NYHART

Suraj Datta, ASA, MAAA, MBA
Consulting Actuary

John Mallows, FSA, MAAA
Valuation Actuary

South Orange County Wastewater Authority
OPEB Actuarial Valuation
Retiree Health Program
As of December 31, 2020

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Background

The South Orange County Wastewater Authority (the "Authority") selected Nyhart to perform an updated actuarial valuation of its retiree health program. The purpose of the valuation is to measure the Authority's liability for OPEB benefits and to determine an actuarially determined contribution (ADC) for the fiscal periods ending June 30, 2021 and June 30, 2022. The ADC is a target, or recommended contribution, to a defined benefit OPEB plan for the applicable period, determined in accordance with the parameters and in conformity with Actuarial Standards of Practice. The valuation results will also serve as the basis for complying with GASB 75 applicable for the fiscal year ending June 30, 2021.

Pursuant to PEMHCA and relevant CalPERS regulations, a retired employee will qualify for SOCWA retiree medical benefits if his or her retirement from the Agency is effective within 120 days of their separation from employment with SOCWA and the retired employee receives a retirement allowance from CalPERS resulting from their service with the Agency . Retired employees who satisfy the preceding requirements (Eligible Retirees) are eligible to continue health coverage with CalPERS for a lifetime for themselves, their surviving spouse, and their eligible dependents up to the age of 26. For employees hired before July 1, 2017, eligible retirees will receive a monthly amount from the Agency not to exceed the Health Allowance made available by the Agency to active employees (Tier I Allowance). For employees hired on or after July 1, 2017, eligible retirees will receive a monthly amount from the Agency equal to the PEMHCA Minimum Required Contribution (MRC), which the Agency will pay directly to CalPERS (Tier II Allowance).

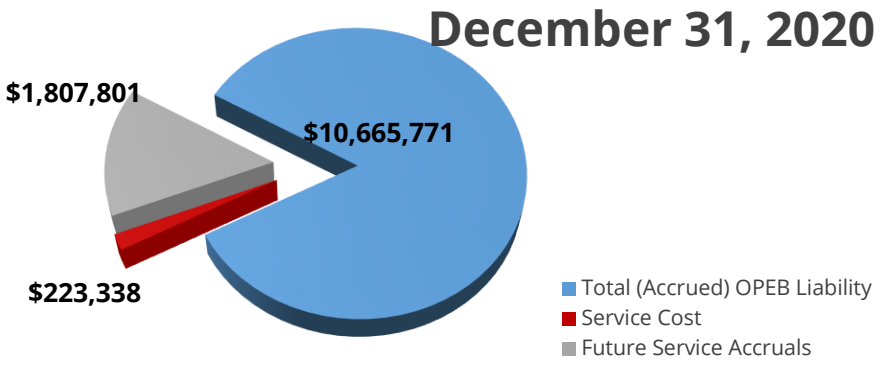
At December 31, 2020, the Authority had 47 retired employees receiving or eligible to receive an Authority contribution for retiree health benefits and 61 active employees earning service eligibility for retiree health benefits. Section IV of the report provides data statistics on the eligible population.

The Authority participates in the CalPERS Health Program for its retiree medical coverage. In general, the premium rates charged to participating employers are the same for each medical plan within each region (or "community") and are the same for both active and retired employees covered under the same medical plan. An implied rate subsidy can exist when the non-Medicare rates for retirees are the same as for active employees. Since non-Medicare eligible retirees are typically much older than active employees, their actual medical costs are typically higher than for active employees. Both GASB accounting standards and actuarial standards of practices (ASOPs) require that implied rate subsidies be considered in the valuation of medical costs. This valuation includes an estimate of the liability for the implicit rate subsidy.

Results of the Retiree Health Valuation

We have determined that the present value of the projected Authority pay-as-you-go contributions (actuarial liability) for OPEB benefits, as of the valuation date December 31, 2020, is $12,696,910, (including $1,601,812 for the implicit rate subsidy). This amount is based on a discount rate of 6.50%. The amount represents the present value of all benefits projected to be paid by the Authority for current and future retirees. If the Authority were to have this amount in a fund earning interest at the rate of 6.50% per year, and all other actuarial assumptions were met, the fund would have enough to pay the Authority's required contribution for retiree health benefits. This includes benefits for the current retirees as well as the current active employees expected to retire in the future. The valuation does not consider employees not yet hired as of the valuation date.

The amount of the actuarial liability is apportioned into past service, current service, and future service components. The past service component (actuarial accrued liability now referred to as Total OPEB Liability) is $10,665,771 (including $1,202,343 for the implicit rate subsidy), the current service component (normal cost or current year accrual) is $223,338 (including $41,025 for the implicit rate subsidy) and the future service component (not yet accrued liability) is $1,807,801 (including $358,444 for the implicit rate subsidy).



Actuarial Liability is $12,696,910

Changes from Prior Valuation

The valuation reflects updated census, plan, and rate information. In addition, there were a few assumption changes as noted in Section VI. A reconciliation of the approximate change in the total (accrued) OPEB liability from the prior valuation is provided below:

December 31, 2019 Valuation @6.50%	**$9,700,000**
Increase due to passage of time	700,000
Decrease due to favorable enrollment mix	(240,000)
Decrease due to favorable healthcare experience	(390,000)
Net increase due to updated assumptions	900,000
December 31, 2021 Valuation @6.50%	**$10,670,000**

Funding

The Authority's funding policy is to pre-fund at least the actuarially determined contribution (ADC) through the California Employers' Retiree Benefit Trust (CERBT) under investment strategy 1. The market value of assets in the Trust as of December 31, 2020 was $6,134,689. The actuarial value of assets is equal to the market value of assets. The Net (unfunded) OPEB Liability at December 31, 2020 was $4,531,082. The Plan's funded ratio (actuarial value of assets over Total OPEB Liability) is 58%.

The estimated pay-as-you-go cost for retiree health benefits for the 2021/2022 fiscal year is approximately $634,909 (including $133,829 for the implicit rate subsidy). This amount includes payments for employees expected to retire during the 2021/2022 fiscal year.

Actuarially Determined Contribution (ADC)

The actuarially determined contribution (ADC), assuming the Authority's funding strategy, is to fund the normal cost (current accrual for benefits being earned) plus an amortization of the unfunded accrued liability- or Net OPEB liability-at June 30, 2021 over 18 years (on a level-dollar basis) equal to $595,227 for the fiscal year ending June 30, 2021. This includes $456,705 for the Authority's explicit contribution and $138,522 for the implicit rate subsidy. The projected contribution for the fiscal year ending June 30, 2022 is $611,596.

Actuarial Basis

The actuarial valuation is based on the assumptions and methods outlined in Section VI of the report. If a single or a combination of assumptions is not met, the future liability may fluctuate significantly from its current measurement. As an example, the healthcare cost increase anticipates that the rate of increase in medical cost will be at moderate levels and decline over several years. Increases higher than assumed would bring larger liabilities and expensing requirements. A 1% increase in the healthcare trend rate for each future year would increase the actuarially determined contribution by 29%. A 1% decrease in the healthcare trend rate for each future year would decrease the actuarially determined contribution by 23%.

Another key assumption used in the valuation is the discount (interest) rate which is based on the expected rate of return of plan assets. The valuation is based on a discount rate of 6.50%. A 1% decrease in the discount rate would increase the actuarially determined contribution by 22%. A 1% increase in the discount rate would decrease the actuarially determined contribution by 19%.

The valuation is based on the census, plan, and rate information provided by the Authority. To the extent that the data provided lacks clarity in interpretation or is missing relevant information, this can result in liabilities different than those presented in the report. Often missing or unclear information is not identified until future valuations.

A. Valuation Results

The table below presents the employer liabilities associated with the Authority's retiree health benefits. The actuarial liability is the present value of all Authority-paid benefits projected to be paid under the program. The total OPEB liability (TOL), previously referred to as the actuarially accrued liability, reflects the amount attributable to the past service of current employees and retirees. The normal cost reflects the accrual attributable for the current period.

	Explicit	Implicit	Total
1. Actuarial Liability or Present Value of Benefits			
Actives	$4,685,539	$950,275	$5,635,814
Retirees	6,409,559	651,537	7,061,096
Total	$11,095,098	$1,601,812	$12,696,910
2. Total OPEB Liability (TOL)			
Actives	$3,053,869	$550,806	$3,604,675
Retirees	6,409,559	$651,537	7,061,096
Total	$9,463,428	$1,202,343	$10,665,771
3. Normal Cost	$182,313	$41,025	$223,338
No. of Active Employees			61
Average Age			41.9
Average Past Service			8.5
No. of Retired Employees			47
Average Age			66.3
Average Retirement Age			59

B. Reconciliation of Market Value of Plan Assets

The reconciliation of Plan Assets for the last two fiscal years is presented below:

	Fiscal Year Ending	
	12/31/2019	12/31/2020
1. Beginning Market Value of Assets	$4,554,334	$5,431,436
2. Contribution	592,075	619,973
3. Net Investment Income	906,475	734,376
4. Benefit Payments	(592,075)	(619,973)
5. Administrative Expenses	(29,373)	(31,123)
6. Ending Market Value of Assets	$5,431,436	$6,134,689
7. Estimated Rate of Return	20.0%	13.6%

C. Development of Actuarial Value of Assets

The actuarial value of assets is based on the market value of assets plus any contribution receivable or benefits payable. The actuarial value of assets at June 30, 2020 is $6,134,689.

D. Development of Net OPEB Liability (NOL)

The table below presents the development of the net OPEB liability previously referred to as the unfunded actuarial accrued liability. The net OPEB liability is the excess of the TOL over the actuarial value of plan assets.

	Explicit	Implicit	Total
1. Total (Accrued) OPEB Liability	$9,463,428	$1,202,343	$10,665,771
2. Actuarial Value of Assets	(6,134,689)	0	(6,134,689)
3. Net (Unfunded Accrued) OPEB Liability (NOL)	$3,328,739	$1,202,343	$4,531,082
4. Funded % Ratio	65%	0%	58%

E. Amortization of NOL

The amortization of the NOL component of the actuarially determined contribution (ADC) is being amortized over a period of 18 years on a level-dollar basis. Under the level-dollar method, the amortization payment is scheduled to remain the same during the amortization period.

	Explicit	Implicit	Total
1. NOL	$3,328,739	$1,202,343	$4,531,082
2. Amortization Factor	12.67889	12.67889	12.67889
3. Amortization of NOL	$262,542	$94,830	$357,372

F. Actuarially Determined Contribution

The table below presents the development of the actuarially determined contribution (ADC) for the fiscal year ending June 30, 2020 and for the fiscal year ending June 30, 2021.

FY2020/2021	Explicit	Implicit	Total
1. Normal Cost at End of Fiscal Year	$194,163	$43,692	$237,855
2. Amortization of NOL	262,542	94,830	357,372
3. Actuarially Determined Contribution (ADC)	$456,705	$138,522	$595,227
4. Estimated Payroll	$6,970,016	$6,970,016	$6,970,016
5. ADC as % of Payroll	7%	2%	9%

FY2021/2022	Explicit	Implicit	Total
1. Normal Cost at End of Fiscal Year	$199,502	$44,894	$244,396
2. Amortization of NOL	269,762	97,438	367,200
3. Actuarially Determined Contribution (ADC)	$469,264	$142,332	$611,596
4. Estimated Payroll	$7,161,691	$7,161,691	$7,161,691
5. ADC as % of Payroll	7%	2%	9%

G. Sensitivity Analysis:

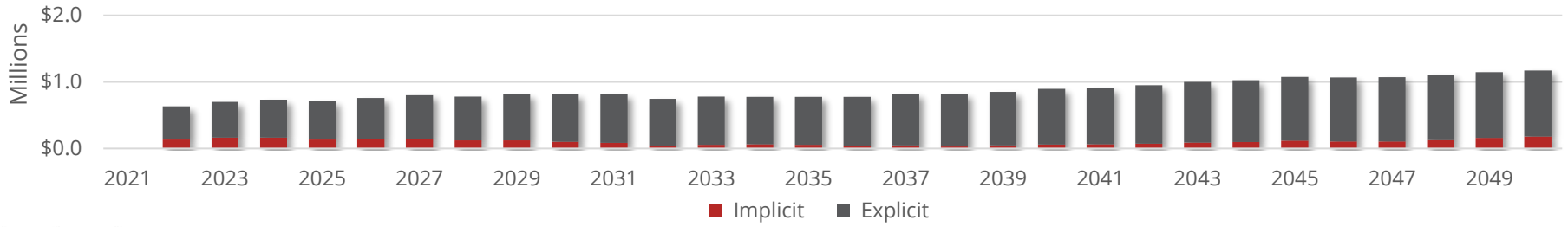
The impact of a 1% decrease and increase in the discount (interest) rate and the impact of a 1% increase and decrease in future healthcare trend rates on the District's actuarial liability, TOL, NOL and the ADC is provided below:

	Dollar ($) Increase/ (Decrease)	Percentage (%) Increase/ (Decrease)
1% Decrease in Discount Rate		
- Actuarial Liability	$2,085,151	16%
- TOL	$1,336,392	13%
- NOL	$1,336,392	29%
- ADC	$128,353	22%
1% Increase in Discount Rate		
- Actuarial Liability	($1,625,007)	-13%
- TOL	($1,101,796)	-10%
- NOL	($1,101,796)	-24%
- ADC	($110,403)	-19%
1% Increase in Future Healthcare Trend Rates		
- Actuarial Liability	$2,026,485	16%
- TOL	$1,444,199	14%
- NOL	$1,444,199	32%
- ADC	$173,630	29%
1% Decrease in Future Healthcare Trend Rates		
- Actuarial Liability	($1,605,456)	-13%
- TOL	($1,175,602)	-11%
- NOL	($1,175,602)	-26%
- ADC	($137,550)	-23%

The valuation process includes the projection of the expected benefits (including the explicit Authority contribution and the implicit rate subsidy) to be paid by the Authority under its retiree health benefits program. This expected cash flow takes into account the likelihood of each employee reaching retirement eligibility and receiving health benefits. The projection is performed by applying the turnover assumption to each active employee for the period between the valuation date and the expected retirement date. Once the employees reach their retirement date, a certain percent are assumed to enter the retiree group each year. Employees already over the latest assumed retirement age as of the valuation date are assumed to retire immediately. The per capita cost as of the valuation date is projected to increase at the applicable healthcare trend rates both before and after the employee's assumed retirement. The projected per capita costs are multiplied by the number of expected future retirees in a given future year to arrive at the cash flow for that year. Also, a certain number of retirees will leave the group each year due to expected deaths or reaching a limit age and this group will cease to be included in the cash flow from that point forward. Because this is a closed-group valuation, the number of retirees dying each year will eventually exceed the number of new retirees, and the size of the cash flow will begin to decrease and eventually go to zero.

The expected employer cash flows for selected future years are provided in the following table:

FY	Explicit	Implicit	Authority Total	FY	Explicit	Implicit	Authority Total	FY	Explicit	Implicit	Authority Total
2020/21	$ 501,080	$ 133,829	$ 634,909	2035/36	$ 741,847	$ 35,037	$ 776,884	2057/58	$ 826,318	$ 76,980	$ 903,298
2022/23	$ 534,494	$ 165,070	$ 699,564	2036/37	$ 775,034	$ 45,191	$ 820,225	2062/63	$ 699,243	$ 26,461	$ 725,704
2023/24	$ 570,256	$ 165,118	$ 735,374	2037/38	$ 787,697	$ 31,719	$ 819,416	2067/68	$ 587,986	$ 0	$ 587,986
2024/25	$ 576,729	$ 135,912	$ 712,641	2038/39	$ 804,397	$ 45,850	$ 850,247	2072/73	$ 507,499	$ 0	$ 507,499
2025/26	$ 616,041	$ 144,471	$ 760,512	2039/40	$ 836,452	$ 60,671	$ 897,123	2077/78	$ 414,313	$ 0	$ 414,313
2026/27	$ 653,060	$ 146,035	$ 799,095	2040/41	$ 847,879	$ 61,164	$ 909,043	2082/83	$ 300,683	$ 0	$ 300,683
2027/28	$ 660,170	$ 120,291	$ 780,461	2041/42	$ 878,146	$ 70,757	$ 948,903	2087/88	$ 183,071	$ 0	$ 183,071
2028/29	$ 695,690	$ 121,671	$ 817,361	2042/43	$ 911,213	$ 90,088	$ 1,001,301	2092/93	$ 87,908	$ 0	$ 87,908
2029/30	$ 716,283	$ 101,161	$ 817,444	2043/44	$ 927,249	$ 98,084	$ 1,025,333	2097/98	$ 31,117	$ 0	$ 31,117
2030/31	$ 731,390	$ 83,355	$ 814,745	2044/45	$ 957,491	$ 118,948	$ 1,076,439	2102/103	$ 7,614	$ 0	$ 7,614
2031/32	$ 704,816	$ 42,612	$ 747,428	2045/46	$ 962,398	$ 104,978	$ 1,067,376	2107/108	$ 1,163	$ 0	$ 1,163
2032/33	$ 721,444	$ 56,256	$ 777,700	2046/47	$ 966,783	$ 104,966	$ 1,071,749	2112/113	$ 93	$ 0	$ 93
2033/34	$ 714,150	$ 61,482	$ 775,632	2047/48	$ 983,884	$ 126,514	$ 1,110,398	2117/118	$ 4	$ 0	$ 4
2034/35	$ 722,770	$ 52,840	$ 775,610	2052/53	$ 964,354	$ 172,816	$ 1,137,170	All Years	$ 45,590,354	$ 4,373,572	$ 49,963,926



The valuation was based on the census furnished to us by SOCWA. The following tables display the age distribution for retirees and the age/service distribution for active employees as of the Valuation Date.

Age Distribution of Eligible Retired Participants & Beneficiaries

Age	Total
<55	1
55-59	7
60-64	14
65-69	14
70-74	4
75-79	6
80+	1
Total:	47
Average Age:	66.3

Age/Service Distribution of All Active Benefit Eligible Employees

	Service									
Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	Total
20-24	3									3
25-29	6	1								7
30-34	9	4	1							14
35-39	5	2	1							8
40-44	4	1	0	1						6
45-49	1	1	0	1	0					3
50-54	1	2	1	2	0	0	1			7
55-59	1	2	0	1	2	3	0	0		10
60-64	1	1	0	0	0	0	0	1	0	2
65-69	0	1	0	0	0	0	0	0	0	1
70+	0	0	0	0	0	0	0	0	0	0
Total:	31	15	3	5	2	3	1	1	0	61
Average Age:			41.9							
Average Service:			8.5							
Estimated Payroll:		$6,970,016								

This study analyzes the retiree health benefits of SOCWA. The retiree health benefits provided to retirees are basically a continuation of the plans for active employees. Our findings and assumptions are based on the plans and rates effective January 1, 2019.

All permanent full-time and part-time employees working at least half-time are offered a choice of medical (including prescription drug coverage) plans through the CalPERS Health Program under the Public Employees' Medical and Hospital Care Act (PEMHCA). SOCWA currently pays an amount each year that is based on a percentage of the average of all health plans (excluding the PERS Care Plan) made available to SOCWA employees through the CalPERS Health Program. Any premium costs above this amount are paid for by the employee. Alternatively, the employee may elect a cash-in-lieu option of $300/month but opt back into the health plan at any time before retirement during an enrollment period. SOCWA offers the same medical plans to eligible retirees except once retirees are eligible for Medicare, the retiree must join a Medicare HMO or Supplement Plan with Medicare being the primary payer. Employees hired on or after July 1, 2017 are only eligible for the PEMHCA minimum contribution ($143.00 for 2021) and an HSA contribution. For the purposes of GASB 75, only the PEMHCA minimum contribution will be valued for these employees.

Eligibility for retiree health benefits requires retirement from SOCWA on or after age 50 with at least 5 years of PERS service. Eligible employees must retire (commence pension payment) with CalPERS within 120 days of separation from service. Retiree benefits are paid for the lifetime of the retiree, spouse or surviving spouse and to age 26 for dependents.

Premium Rates

SOCWA participates in the CalPERS Health Program, a community-rated program for its medical coverage. The following tables summarize the current monthly premiums for the primary medical plans in which the retirees are enrolled. All premiums are effective for the 2021 calendar year.

2021 CalPERS Premiums - Region 2	Kaiser	BS Access+	BS Trio	PERS Care	PERS Choice	PERS Select
Retiree Only	$ 669.77	$ 938.96	$ 722.56	$ 1,115.68	$ 783.19	$ 476.92
Retiree plus Spouse	$ 1,339.54	$ 1,877.92	$ 1,445.12	$ 2,231.36	$ 1,566.38	$ 953.84
Retiree Only – Medicare	$ 324.48	N/A	N/A	$ 381.25	$ 349.97	$ 349.97

2021 CalPERS Premiums - Region 2	UHC HMO	Anthem HMO Select	Anthem HMO Traditional	Health Net SmartCare	Health Net Salud
Retiree Only	$ 723.84	$ 674.69	$ 1,046.04	$ 769.11	$ 458.66
Retiree plus Spouse	$ 1,447.68	$ 1,349.38	$ 2,092.08	$ 1,538.22	$ 917.32
Retiree Only – Medicare	$ 311.56	$ 383.37	$ 383.37	N/A	N/A

The liabilities set forth in this report are based on the actuarial assumptions described in this section.

Fiscal Year:	July 1st to June 30th
Valuation Date:	January 1, 2021
Funding Practice:	SOCWA does not plan to make contributions to the Trust in the near future but will continue to make pay-go contributions directly (outside of the Trust).
Expected Rate of Return:	6.50% per annum; assumes that SOCWA invests in PARS Balanced Highmark Plus asset allocation
Discount Rate:	6.50% per annum.
Inflation:	2.75% per annum
Payroll Increases:	2.75% per annum, in aggregate *[The prior valuation used a rate of 3.0% and has been updated to reflect the 2017 CalPERS pension plan valuation.]*
Pre-retirement Turnover:	According to the termination rates under the 2017 experience study for the CalPERS pension plan. *[Rates have been updated to the CalPERS 2017 pension plan valuation from the 2014 experience study for the pension plan.]*

Mortality:	
General	SOA Pub-2010 General Total Dataset Headcount Weighted Mortality Table fully generational using Scale MP-2020
Surviving Spouses	SOA Pub-2010 Contingent Survivors Total Dataset Headcount Weighted Mortality Table fully generational using Scale MP-2020
	[Mortality rates as of the prior valuation were based on the CalPERS 2014 pension plan valuation.]
Retirement Age:	According to the retirement rates under the 2017 experience study for the CalPERS pension plan. According to the following retirement tables**:** Miscellaneous Tier 1: 2.5% @55 Miscellaneous Tier 2: 2.0% @55 Miscellaneous Tier 3: 2.0% @62 *[Rates have been updated to the CalPERS 2017 experience study from the 2014 experience study for the pension plan.]*
Participation Rates:	100% of eligible active employees are assumed to elect medical coverage at retirement. Future retirees are assumed to elect coverage similar to current retirees. Actual spouse coverage and spouse ages are used for current retirees.
Spouse Coverage:	65% of future retirees are assumed to elect coverage for their spouse. Male spouses are assumed to be 3 years older than female spouses. Actual spouse coverage and spouse ages are used for current retirees.
Dependent Coverage:	Not explicitly valued.

Medical Trend Rates:

Medical costs are adjusted in future years by the following trends:

FYE	
2021	6.50%
2022	6.25%
2023	6.00%
2024	5.75%
2025	5.50%
2026	5.25%
2027	5.00%
2028	4.75%
2029+	4.50%

Claim Cost Development:

The valuation claim costs are based on the premiums paid for medical insurance coverage. The Authority participates in CalPERS, a community rated plan. An implicit rate subsidy can exist when the non-Medicare rates for retirees are the same as for active employees. Since non-Medicare eligible retirees are typically much older than active employees, their actual medical costs are typically higher than for active employees. The current valuation contains an estimate of the implicit rate subsidy. Please see sample claim costs in the tables below:

	Region 2							
Age	PERS Choice	PERS Select	PERSCare	Anthem HMO Select	Anthem HMO Traditional	Blue Shield Access+	Kaiser CA	United Healthcare
40 – 44	$ 6,620	$ 4,031	$ 9,430	$ 5,703	$ 8,841	$ 7,936	$ 5,661	$ 6,118
45 – 49	$ 8,299	$ 5,054	$ 11,823	$ 7,149	$ 11,085	$ 9,950	$ 7,097	$ 7,670
50 – 54	$ 10,007	$ 6,094	$ 14,256	$ 8,621	$ 13,366	$ 11,998	$ 8,558	$ 9,249
55 - 59	$ 12,174	$ 7,413	$ 17,342	$ 10,487	$ 16,259	$ 14,595	$ 10,411	$ 11,251
60 - 64	$ 15,070	$ 9,177	$ 21,468	$ 12,983	$ 20,128	$ 18,068	$ 12,888	$ 13,928

Actuarial Cost Method:	The actuarial cost method used to determine the allocation of the retiree health actuarial liability to the past (accrued), current and future periods is the Entry Age Normal (EAN) cost method. The EAN cost method is a projected benefit cost method which means the "cost" is based on the projected benefit expected to be paid at retirement. The EAN normal cost equals the level annual amount of contribution from the employee's date of hire (entry date) to their retirement date that is sufficient to fund the projected benefit. As required by GASB 75, the normal cost is calculated to remain level as a percentage of pay. The EAN actuarial accrued liability equals the present value of all future benefits for retired and current employees and their beneficiaries less the portion expected to be funded by future normal costs. All employees eligible as of the measurement date in accordance with the provisions of the Plan listed in the data provided by the District were included in the valuation.
Actuarial Value of Assets:	Any assets of the plan will be valued on a market value basis.
Amortization of NOL:	The unfunded actuarial accrued or net OPEB liability (NOL) is being amortized over 18 years using a level percentage of pay amortization method.

This report summarizes the actuarial valuation for the South Orange County Wastewater Authority (the "Authority") as of December 31, 2020. The purpose of the valuation is to measure the Authority's liability for OPEB benefits and to determine an actuarially determined contribution (ADC) for the fiscal periods ending June 30, 2021 and June 30, 2022. The ADC is a target or recommended contribution to a defined benefit OPEB plan for the applicable period, determined in accordance with the parameters and in conformity with Actuarial Standards of Practice. The valuation results will also serve as the basis for complying with GASB 75 applicable for the fiscal year ending June 30, 2021.

To the best of our knowledge, the report presents a fair position of the funded status of the plan. The valuation is based upon our understanding of the plan provisions as summarized within the report. The information presented herein is based on the actuarial assumptions and substantive plan provisions summarized in this report and participant information and asset information furnished to us by the Plan Sponsor. We have reviewed the employee census provided by the Plan Sponsor for reasonableness when compared to the prior information provided but have not audited the information at the source, and therefore do not accept responsibility for the accuracy or the completeness of the data on which the information is based. When relevant data may be missing, we may have made assumptions we feel are neutral or conservative to the purpose of the measurement. We are not aware of any significant issues with and have relied on the data provided.

The discount rate and other economic assumptions have been selected by the Plan Sponsor. Demographic assumptions have been selected by the Plan Sponsor with the concurrence of Nyhart. In our opinion, the actuarial assumptions are individually reasonable and in combination represent our estimate of anticipated experience of the Plan. All calculations have been made in accordance with generally accepted actuarial principles and practice.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following:

- Plan experience differing from that anticipated by the economic or demographic assumptions;
- Changes in economic or demographic assumptions;
- Increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and
- Changes in plan provisions or applicable law.

While some sensitivity was provided in the report, we did not perform an analysis of the potential ranges of future measurements due to the limited scope of our engagement.

Neither Nyhart nor any of its employees has any relationship with the plan or its sponsor that could impair or appear to impair the objectivity of this report. Our professional work is in full compliance with the American Academy of Actuaries "Code of Professional Conduct" Precept 7 regarding conflict of interest. The undersigned meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Should you have any questions please do not hesitate to contact me.

Certified by:

Suraj Datta, ASA, MAAA, MBA
Consulting Actuary

John Mallows, FSA, MAAA
Valuation Actuary

Date: June 4, 2021

GASB 75 defines several unique terms not commonly employed in the funding of pension and retiree health plans. The definitions of the terms used in the GASB actuarial valuations are noted below.

1. **Actuarial Assumptions** – Assumptions as to the occurrence of future events affecting health care costs, such as: mortality, withdrawal, disablement and retirement; changes in compensation and Government provided health care benefits; rates of investment earnings and asset appreciation or depreciation; procedures used to determine the Actuarial Value of Assets; characteristics of future entrants for Open Group Actuarial Cost Methods; and other relevant items.

2. **Actuarial Cost Method** – A procedure for determining the Actuarial Present Value of Future Benefits and expenses and for developing an actuarially equivalent allocation of such value to time periods, usually in the form of a Service Cost and a Total OPEB Liability.

3. **Actuarially Determined Contribution** - A target or recommended contribution to a defined benefit OPEB plan for the reporting period, determined in accordance with the parameters and in conformity with Actuarial Standards of Practice.

4. **Actuarial Present Value** – The value of an amount or series of amounts payable or receivable at various times, determined as of a given date by the application of a particular set of Actuarial Assumptions. For purposes of this standard, each such amount or series of amounts is:
    a. adjusted for the probable financial effect of certain intervening events (such as changes in compensation levels, Social Security, marital status, etc.);
    b. multiplied by the probability of the occurrence of an event (such as survival, death, disability, termination of employment, etc.) on which the payment is conditioned; and
    c. discounted according to an assumed rate (or rates) of return to reflect the time value of money.

5. **Deferred Outflow / (Inflow) of Resources** – represents the following items that have not been recognized in the OPEB Expense:
    a. Differences between expected and actual experience of the OPEB plan
    b. Changes in assumptions
    c. Differences between projected and actual earnings in OPEB plan investments (for funded plans only)

6. **Explicit Subsidy** – The difference between (a) the amounts required to be contributed by the retirees based on the premium rates and (b) actual cash contribution made by the employer.

7. **Funded Ratio** – The actuarial value of assets expressed as a percentage of the Total OPEB Liability.

8. **Healthcare Cost Trend Rate** – The rate of change in the per capita health claims costs over time as a result of factors such as medical inflation, utilization of healthcare services, plan design, and technological developments.

9. **Implicit Subsidy** – In an experience-rated healthcare plan that includes both active employees and retirees with blended premium rates for all plan members, the difference between (a) the age-adjusted premiums approximating claim costs for retirees in the group (which, because of the effect of age on claim costs, generally will be higher than the blended premium rates for all group members) and (b) the amounts required to be contributed by the retirees.

10. **OPEB** – Benefits (such as death benefits, life insurance, disability, and long-term care) that are paid in the period after employment and that are provided separately from a pension plan, as well as healthcare benefits paid in the period after employment, regardless of the manner in which they are provided. OPEB does not include termination benefits or termination payments for sick leave.

11. **OPEB Expense** – Changes in the Net OPEB Liability in the current reporting period, which includes Service Cost, interest cost, changes of benefit terms, expected earnings on OPEB Plan investments, reduction of active employees' contributions, OPEB plan administrative expenses, and current period recognition of Deferred Outflows / (Inflows) of Resources.

12. **Pay-as-you-go** – A method of financing a benefit plan under which the contributions to the plan are generally made at about the same time and in about the same amount as benefit payments and expenses becoming due.

13. **Per Capita Costs** – The current cost of providing postretirement health care benefits for one year at each age from the youngest age to the oldest age at which plan participants are expected to receive benefits under the plan.

14. **Present Value of Future Benefits** – Total projected benefits include all benefits estimated to be payable to plan members (retirees and beneficiaries, terminated employees entitled to benefits but not yet receiving them, and current active members) as a result of their service through the valuation date and their expected future service. The actuarial present value of total projected benefits as of the valuation date is the present value of the cost to finance benefits payable in the future, discounted to reflect the expected effects of the time value (present value) of money and the probabilities of payment. Expressed another way, it is the amount that would have to be invested on the valuation date so that the amount invested plus investment earnings will provide sufficient assets to pay total projected benefits when due.

15. **Real Rate of Return** – the rate of return on an investment after adjustment to eliminate inflation.

16. **Select and Ultimate Rates** – Actuarial assumptions that contemplate different rates for successive years. Instead of a single assumed rate with respect to, for example, the investment return assumption, the actuary may apply different rates for the early years of a projection and a single rate for all subsequent years. For example, if an actuary applies an assumed investment return of 8% for year 20W0, then 7.5% for 20W1, and 7% for 20W2 and thereafter, then 8% and 7.5% are the select rates, and 7% is the ultimate rate.

17. **Service Cost** – The portion of the Actuarial Present Value of projected benefit payments that is attributed to a valuation year by the Actuarial Cost Method.

18. **Substantive Plan** – The terms of an OPEB plan as understood by the employer(s) and plan members.

19. **Total OPEB Liability** – That portion, as determined by a particular Actuarial Cost Method, of the Actuarial Present Value of Future Benefits, which is attributed to past periods of employee service (or not provided for by the future Service Costs).

Agenda Item 6B

Board of Directors Meeting

Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Matt Clarke, IT Administrator

SUBJECT: Copier/Printer Agreement

Summary

Currently SOCWA uses six copiers at the three SOCWA locations. Two Xerox C60 copiers are in the main administration building and the leases on both units are due to expire on 3/19/23. The remaining Xerox copiers that are in Engineering, Receiving, Coastal Treatment Plant Control Room, and Regional Treatment Plant are owned by SOCWA. The four owned Xerox copiers are currently end of life and Xerox provided notification mid-June that they will no longer offer Maintenance Contracts on these units after June 30, 2021. No service, supplies, or parts will be provided for the four owned Xerox devices after the published end of life date. SOCWA currently utilizes MRC Maintenance Contracts for all toners, parts and services needed for Xerox devices to function.

MRC, a Xerox Company, is the service provider for all six Xerox copiers, has submitted a proposal to manage all our copiers and printers for a monthly fee. The proposal will include the replacement of the four owned Xerox, end of life units, with the newest most advanced models. The contract will provide for the replacement of all toner cartridges and repairs to or replacement of printers as needed.

Attached is the agreement with an analysis of the cost comparison between our current costs and the proposal from MRC. Under the proposal there would be a monthly savings of $148.33, and an annual savings of $1,779.96. Additionally, MRC will be revising the current copier, and print allowances to eliminate current service overages of $728.11 per month. Due to previous Board comments, SOCWA staff requested a range of lease and maintenance options summarized in the table below. The cheapest option is represented in the 60-month contract as articulated below.

Xerox/MRC Lease Options						
Equipment	12 Months	24 Months	36 Months	39 Months	48 Months	60 Months
New 4 Xerox Machines	$2,662.90	$1,378.15	$874.43	$834.81	$738.60	$597.10
Existing Xerox C60(s)	$4,449.93	$4,449.93	$4,449.93	$4,449.93	$4,449.93	$4,449.93
Total Cost:	$7,112.83	$5,828.08	$5,324.36	$5,284.74	$5,188.53	$5,047.03

Fiscal impact

Estimated monthly savings to engage in a contract for the 60 month term is $148.33, or annual savings $1,779.96, and savings over the 60 month term would be $8,899.80 for the renewal. However, any contract, above a twelve month award must be captured through capitalization of assets according to GASB 87, effective July 1, 2021. The capitalization of assets would result in an additional accounting requirement for a contract greater than twelve months.

Recommended Action: Staff recommends to the Board of Directors to authorize the General Manager to negotiate an agreement on the referenced terms with MRC, A Xerox Company, for Copier and Printer Services for a sixty month period.

Agenda Item 6C

Budgeted: Yes
Budget amount: $219,000
Line Item: PC2, 15 &17 Lines 5013
Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Contract Award to Mariposa Landscapes Inc. for Landscaping Services

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Summary

Staff recommends awarding a contract to Mariposa Landscapes Inc. for monthly plant landscaping services and periodic access road landscaping services.

Discussion/Analysis

SOCWA operates three wastewater treatment plants and access roads that require landscaping and tree maintenance services. The last solicitation for landscaping services was conducted in 2017.

The following is the schedule for the solicitation of a new Landscaping vendor.

Date	Task/Work Item
18-May-21	RFP Released
25-May-21	Pre-proposal Meeting
15-Jun-21	Received Proposals
6/17-7/6	Review Proposals
5-Aug-21	Board Meeting to award the Contract
1-Sep-21	Anticipated start of the new contract

RFP Process Results and Outcomes

The RFP process used the online bidding service tool PlanetBids.com. This bidding service provides notification to registered vendors throughout California and the United States. The system also helps manage and store documents, Q&A's, notifications, etc., that are associated with the RFP process ensuring a fair and open process.

At the close of the proposal period, two (2) proposals were received in response to the RFP. The current vendor servicing CTP, Socal Landscaping, declined to propose.

Non-Compliant Proposals (Phase 1) Review Results

Both proposals were determined to be compliant and provided all the required documents and information required in the RFP.

Initial Proposal (Phase 2) Review Results

The proposals were rated by SOCWA staff with a maximum score of 30. The result of the review are as follows:

Mariposa Landscapes Inc. = 27
Brightview Landscaping Services Inc. = 15

The current vendor for JBL and RTP, Brightview Landscaping Services Inc., continues to have documented non-compliance issues with the existing contracts for landscaping services.

Post RFP Process Public Comments

No protests were received.

Contracts Fees Comparison and Assessment

The following is a summary of the request services and fees:

Service Area	Service Description	Mariposa	Brightview	Current Contracts
CTP Plant	Monthly Fee for Weekly Services	$2,929.00	$3,651.77	$2,535.00
CTP Access Road Area 1	Per mowing event	$461.80	$450.00	NA
CTP Access Road Area 2	Per mowing event	$706.97	$4,250.00	NA
CTP Access Road Area 3	Per mowing event	$523.09	$970.00	NA
CTP Access Road Area 4	Per mowing event	$768.26	$3,960.00	NA
RTP Plant	Monthly Fee for Weekly Services	$7,322.50	$5,633.44	$6,426.70
JBL Plant	Monthly Fee for Weekly Services	$4,393.50	$3,494.08	$4,039.24

NA – This is not available because this work is bid out each time it is needed, the prices vary with each bid.

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The following is an estimate of the annual costs for the request services:

Item	# of events per year	Mariposa	Brightview
CTP	12	$35,148.00	$43,821.24
Access 1	4	$1,847.20	$1,800.00
Access 2	2	$1,413.94	$8,500.00
Access 3	4	$2,092.36	$3,880.00
Access 4	4	$3,073.04	$15,840.00
RTP	12	$87,870.00	$67,601.28
JBL	12	$52,722.00	$41,928.96
Total Est Annual Cost		$184,166.54	$183,371.48

SOCWA staff recommends Mariposa Landscapes Inc. for Landscaping Services with the highest overall proposal rating and because Brightview Landscaping Services Inc. continues to have documented non-compliance issues with their existing contracts for landscaping at SOCWA.

Prior Related Project Committee or Board Action(s)

None

Fiscal impact

None

Recommended Action: Staff recommends awarding a contract to Mariposa Landscapes Inc. for one (1) year, with up to 4 annual optional renewals, for the following services and fees:

Service Area	Service Description	Service Fee
CTP Plant	Monthly Fee for Weekly Services	$2,929.00
CTP Access Road Area 1	Per mowing event	$461.80
CTP Access Road Area 2	Per mowing event	$706.97
CTP Access Road Area 3	Per mowing event	$523.09
CTP Access Road Area 4	Per mowing event	$768.26
RTP Plant	Monthly Fee for Weekly Services	$7,322.50
JBL Plant	Monthly Fee for Weekly Services	$4,393.50

Agenda Item 6D

Budgeted: Small Capital
Line Item: PC-17 Project #2222-064
Legal Counsel Review: No
Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Small Capital Wemco 6X6 Model C Pump Purchase from Flo-Systems, Inc. for $53,821.13 (plus shipping) [Project Committee 17]

Summary

This agenda item provides a recommendation for the award of a small capital project purchase to replace a digester mix pump at RTP.

Discussion/Analysis

SOCWA needs to replace a failing digester mix pump. The pump was budgeted for replacement in FY 2021-22 under a small capital project. The pump is beyond the end of its useful life and is starting to fail.

Flo-Systems Inc. is WEMCO's authorized representative for their pumps in California. Thus, Flo-Systems, Inc. is the only available vendor to SOCWA for purchasing the replacement digester mix pump. SOCWA O&M staff will install the pump once delivered. The control panel and electrical system are in good condition and will not be replaced under this project.

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

None

Fiscal impact

Per SOCWA's Uniform Purchasing Policy and Procedures, sole source and non-discretionary purchases over $50,000 are to be reviewed and approved by the Board of Directors.

This capital purchase is located in the solids area of RTP and is for mixing sludge in a digester to create methane gas for the cogen engine. Therefore, the costs are to be allocated using the solids ownership allocations for RTP. The following are the cost allocations for the project:

Agency	PC-17 Solids Ownership Allocations	Cost Allocation
CLB	11.22%	$6,038.73
EBSD	0.59%	$317.54
ETWD	20.41%	$10,984.89
MNWD	58.82%	$31,657.60
SCWD	8.96%	$4,822.37
Total	100.00%	$53,821.13

Actual shipping costs will be added to the allocated costs using the solids ownership percentages shown above when the invoices are received.

Recommended Action: Staff recommends to the Board to authorize the General Manager to purchase a Wemco 6X6 Model C Pump from Flo-Systems, Inc. at the cost of $53,821.13, including additional shipping costs that will be determined at the time the units are shipped.

Agenda Item 6E

Board of Directors Meeting
Meeting Date: August 5, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

SUBJECT: General Manager's Status Report

ADMINISTRATIVE

In-person Meetings

Staff is preparing to restart in-person Board Meetings with the September 2021 Board Meeting. Consistent with State guidance, all unvaccinated persons will be required to wear masks when in attendance. Please advise staff if you intend to join the meeting via conference call. Attendance in-person is encouraged as the Ad Hoc Committee working on services options will be giving its report. An update will also be provided on the JPA Revision Work and the IRWD withdrawal request.

SCAP Semi Annual Report

SCAP June 2021 Semi Annual Report attached.

ENVIRONMENTAL

Spill Reporting Procedures Review

On July 11, 2021, the Hyperion treatment plant began discharging what would amount to an approximately 17 million gallons of raw sewage spilled into the Pacific Ocean due to illegal dumping in the sewershed leading into the facility. Coordination with public health officials was largely criticized as the delay resulted in a late notice to close potentially affected beaches near the spill. See the attached Los Angeles Times Article regarding that event.

The Hyperion incident is an occasion for SOCWA staff to brief the Board as to how an incident of that type would be managed in the SOCWA service area. Ove the last five years, there have been nine such events ranging in size from a few hundred gallons to over a million gallons that SOCWA has been directly involved in. The Regional Treatment Plant spill that occurred on January 21, 2017 was the first major spill that prompted an update to the Spill Response Plan and Spill Prevention Plan. While not legally required, but a key lesson learned from the Regional Plant spill was the updating of a contract agreement to assess the biological monitoring using resource experts immediately to determine the acute and long-term effects that the spill may have on biological resources. This update included a standard operating procedure as to how to handle spills when they occur and has been shared broadly with member agencies. In addition to the external contract update, internal personnel have been trained on the monitoring requirements needed within immediate notification of the spill event. SOCWA staff have also completed training in spill volume estimation and are developing a safety protocol for response to spills for protection of employees.

When a spill occurs, SOCWA staff report the spill to the Orange County Office of Emergency Services (OES) within two hours of notification of the spill once key details of the spill are identified. OES is staffed twenty-four hours per day and work directly with Orange County Health Care Agency in the notification of the spill. Within two hours, SOCWA also reaches out to contracted personnel to begin biological assessment. SOCWA staff also reaches out to Orange County Health Care Agency (OCHCA) staff to update the staff on the monitoring events occurring while the spill continues, ascertain recent monitoring data to augment monitoring efforts, and share personnel resources for additional in person observation or associated monitoring. OCHCA work close with SOCWA to determine if the beaches should be closed through onsite observation and monitoring efforts. Through the NPDES permit, SOCWA conducts weekly monitoring through the Unified Beach program which connects spills upstream in the watershed with monitoring at the beach and applicable beach closures by OCHCA. For example, in the Laguna Beach spill in 2019, SOCWA mobilized biological and water quality monitoring immediately and OCHCA closed the beaches to protect public health. The connection with the OCHCA staff and the routine monitoring that SOCWA conducts at the beach ensure that a delay in beach closures would not be replicated at the beaches in South Orange County.

The matrix below is the legal and regulatory guide utilized for reporting to regulatory agencies included in the SOCWA Spill Response Plan. SOCWA encourages member agencies to promptly report and deploy resources related to the spills across matrices of recycled water to raw sewage. The Spill Response Plan has been shared with member agencies.

Spill Event	RWQCB notification by phone, voice mail or FAX within 2 hours	RWQCB Spill Reporting Form within 5 days	OCHCA notification Within 2 hours	Office of Emergency Services (OES) Within 2 hours	OC Countywide Area Spill Program (Immediate)	Specific Regulatory Authority
Treated or untreated wastewater of ≥1000 gallons or if any volume reaches surface waters	YES	YES	YES	YES	YES	Current Ocean Discharge Permit Orders for both ACOO & SJCOO
Treated or untreated wastewater <1000 gallons and any volume reaches surface waters	YES	YES	YES	YES	Judgment Call	Current Ocean Discharge Permit Orders for both ACOO & SJCOO
Treated or untreated wastewater < 1000 gallons and the discharge does not reach surface waters	NO	NO	YES	NO	NO	Current Ocean Discharge Permit Orders for both ACOO & SJCOO

In-plant spills other than wastewater that causes or may cause human health or environmental hazard	YES	YES	YES	YES	NO	Current Ocean Discharge Permit Orders for both ACOO & SJCOO
Recycled water spill ≥1000 gallons that results in a discharge to surface water	YES	YES	YES	YES	YES	California Water Code Section 13529.2
Recycled water spills <1000 gallons not discharged to surface water	NO	NO	YES	NO	NO	California Water Code Section 13529.
Recycled water spill ≥ 50,000 gallons	YES	YES	YES	YES	NO	California Water Code Section 13529.
In-plant spills from regular maintenance (spill contained in-plant)	NO	NO	NO	NO	NO	Written clarification letter Region 9
In-plant spill other than maintenance (spill contained in-plant)	YES	YES	YES	NO	NO	Written clarification letter Region 9

WEF Laboratory Committee Spotlight

The SOCWA laboratory was featured in the May 2021 WEF Laboratory Practices newsletter which is provided in the packet. Featured in the article was a picture of Charles Santos who worked after hours on the May 5, 2021 sludge export line spill. Additionally, featured is Katrina Wong who is working on a project with Orange County Health Care Agency laboratory, extracting samples used for wastewater based epidemiology project. The laboratory staff are expert analysts that work in step with operations to ensure that compliance is achieved at the wastewater treatment facilities, beach monitoring sites, and drinking water sites.

OPERATIONS UPDATES

Lighting Improvements Continue

SOCWA Support Services staff continue to replace obsolete lighting fixtures around the three Treatment Plants. The replacements efforts also help eliminate poor and unsafe lighting conditions. Below are pictures from a recently completed area at RTP.

Before Improvements

After Improvements

Fixed Gas Detector Installations Completed at RTP

SOCWA O&M staff are continuing to install fixed gas detectors at each of the three Treatment Plants. These installations are to comply with the National Fire Protection Authority (NFPA) Code Section 820. Four (4) sites have been completed at RTP. RTP is now fully compliant with NFPA 820, and O&M staff do not need to wear personal gas detecting equipment during their normal course of business.

There is a red strobe light at each site to warn O&M staff that there is a hazardous atmospheric condition inside the building. O&M staff will take measures to mitigate the hazardous atmospheric condition before entry. Here are some photos of one of the four installations.

O&M Projects Around the Plants

O&M staff at CTP recently replaced a DAFT Pump and Pad. Below are a series of photos that should how the project progressed to completion.

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O&M staff replaced deteriorating and unsafe concrete stairs at JBL with a new Aluminum stair system. Below, O&M staff are pictured installing the stairs and the final product.

A grit classifier was removed and replaced at RTP. This is the second of two installations over as many years. These devices have to be removed and replaced through the skylights in the Headworks. Below are pictures of the O&M staff gently guiding the new grit classifier through the skylight.

Sewage spill was kept from public for hours

Officials, environmental experts raise alarms over county protocols

Los Angeles Times · 14 Jul 2021 · By Robert J. Lopez and Chris Kuo

After 17 million gallons of raw sewage were discharged into the ocean off Los Angeles beaches early Monday, county officials waited hours before notifying the public to avoid swimming in areas potentially affected by high levels of bacteria.

The delay occurred even though officials from the Los Angeles County Department of Public Health, which is responsible for notifying the public, were at the Hyperion Water Reclamation Plant in Playa del Rey during the emergency discharge procedure that began Sunday evening and ended Monday around 4:30 a.m., according to interviews.

Public health officials posted a beach closure advisory on their website urging residents to avoid swimming at Dockweiler and El Segundo beaches and shared the notification on Twitter at 5:30 p.m. Monday.

Officials and environmental experts said such delays put the public at risk, and the county needs to improve its protocols for notification and testing.

"A press release posted on the L.A. County Department of Public Health webpage is not good enough," said Shelley Luce, president and chief executive of Heal the Bay. County officials should have begun informing the public early Monday via social media, she said, adding, "It's time for a better protocol."

Julio Rodriguez, a captain with the county Fire Department Lifeguard Division at Dockweiler Beach, told The Times his crews found out about the beach closure around noon — after seeing a county worker posting a sign on a lifeguard tower.

"That's how we received official notification of the closure of the beaches," he said.

After seeing the sign, Rodriguez said, lifeguards began warning beachgoers to stay out of the water.

Los Angeles County Supervisor Janice Hahn said Tuesday that she was seeking answers from county health officials and the city, which operates the Hyperion Water Reclamation Plant.

"What happened yesterday was unacceptable and irresponsible," Hahn said in a statement. "We need answers from L.A. City Sanitation about what went wrong and led to this massive spill, but we also need to recognize that L.A. County Public Health did not effectively communicate with the public and could have put swimmers in danger."

A spokesman for the Department of Public Health said the agency was in the process of gathering information on its notification process and protocols.

Timeyin Dafeta, executive plant manager at the Hyperion Water Reclamation Plant, said an investigation was ongoing, but his crews had ruled out human error or mechanical failures.

He said construction materials, including wood chips and pieces of concrete, along with paper and grease, clogged the filtering screens. The materials were either flushed down a toilet or dumped in a maintenance hole somewhere along the city's 6,700 miles of sewage pipes, he said.

"Those things should not be in our system," Dafeta said. "That, in essence, is what caused the whole thing."

He said crews tried replacing the screens and diverting water but were forced to begin discharging the sewage through the emergency pipe around 7:30 p.m. Sunday to avoid a "catastrophic situation."

Plant crews alerted the state Office of Emergency Services at 8:10 p.m., and the state notified the county Department of Public Health, which sent officials to the plant at 2 a.m., according to Dafeta.

The 17 million gallons — which represent about 6% of the facility's daily load —

'L.A. County Public Health did not effectively communicate with the public and could have put swimmers in danger.'

— JANICE HAHN, L.A. County supervisor

amounted to the largest emergency discharge conducted at the Hyperion plant in a decade, officials said. The plant, which began operating in the 1920s, is Los Angeles' oldest and largest wastewater treatment facility.

During the hours-long operation, crews directed the sewage through a 1-mile pipe that ends 50 feet under the water, Dafeta said. The plant normally discharges wastewater 190 feet down, using a 5-mile pipe.

Luce of Heal the Bay said county officials should develop a process that uses computer modeling based on real-time current, wind and swell data to predict the direction of spread for contaminants that spill or are discharged into the ocean.

With real-time data, she said, "we can predict how bacteria will move."

Similar technology is used by Heal the Bay to determine the water quality at beaches and by surfers to predict the size and direction of waves.

"With a spill this size, they should have closed the nearest beaches sooner," Luce said. "A mile offshore is too close for 17 million gallons of sewage."

Dockweiler and El Segundo beaches remained closed Tuesday afternoon as county officials awaited results from water tests taken a day earlier; Luce noted that widely available rapid testing can provide results much quicker.

At Dockweiler, the beach was empty, aside from a few people walking along the shore or relaxing in lawn chairs. Signs staked into the ground announced that the water was closed for swimming: "Contact with ocean water may cause illness."

Several people said they had no idea the beach had been closed.

Suni Pradahn, 42, who was wearing headphones as she strolled on the sand, said she found out about the closure after she arrived at the beach.

"I was wondering what happened to the people. I didn't see anyone in the water," said Pradahn, who lives nearby in Playa del Rey. "I really don't know what's going on."

Laboratory Practices Committee Newsletter
Volume 6, Issue 1

Up Coming Events

California Environmental Laboratory Accreditation Conference
June 1—3, 2021

Laboratory Ethics Webinar
July 8, 2021

National Environmental Monitoring Conference
August 2—12, 2021

WEFTEC
October 16—20, 2021

Oregon Annual Environmental Lab Conference
November 9, 2021

From the LPC Chair

As our communities have opened up from Shelter in Place conditions, many labs are welcoming the return of full staffing or even some meetings without masks (outside or with fully vaccinated coworkers). This is a good time to reevaluate on how lab work—which may be viewed by outsiders as a singular task — is really a collaborative effort. It's not just that now we have share workload among several people, but it is the synergy that comes from exchanging ideas with colleagues.

Likewise, the Laboratory Practices Committee is a collaborative effort. By working together during past six months we have:

- Shared educational content via our WEF website committee page;
- Worked with other WEF committees on the PFAS task force;
- Put together a planning group to develop an interactive laboratory chat; and
- Continued to recruit speakers on laboratory related current interest topics for our quarterly full lab committee calls.

We also work with groups outside of WEF. Currently the LPC is joining with the American Water Works Association (AWWA) and the Association of Public Health Labs (APHL) on two ethics related projects. Several of our members have served as coauthors on a comprehensive article exploring laboratory ethics, scheduled to be published in late Fall. We are also working together on an ethics webinar scheduled for July 8 that discusses how laboratories use ethics programs and can serve as a lab's annual data integrity program.

In April, we said goodbye to our longtime WEF Staff Liaison, Beth Conway. Her ability to track projects and support initiatives — as well as keep me on task — has been much appreciated.

Mary Johnson
WEF LPC Chair

BOD vs. TOC

During our March 2021 Leadership conference call, Dominic Brose of the Metropolitan Water Reclamation District of Greater Chicago (MRRD) presented results of a study correlating BOD to TOC and how the MRRD is using that information to apply for a variance to their NPDES permit. Presentation slides are available on the WEF LPC website page.

Following the presentation, LPC members approached the Environmental Monitoring Coalition (EMC) about addressing language in 40 CFR 136 that says " Chemical oxygen demand (COD) or total organic carbon (TOC) may be substituted for BOD5 when a long-term BOD:COD or BOD:TOC correlation has been demonstrated." We are particularly interested in defining what is "long term," what is a correlation, does this apply to CBOD, and the frequency of reverification.

The EMC has asked us to put together a task force to study the issue. Persons interested in joining the task force can contact the LPC Committee Chair.

Spotlight:
South Orange County Wastewater Authority

1. What is the name and location of your facility?
   South Orange County Wastewater Authority
   Laguna Niguel, CA 92677

2. What is the average daily flow (MGD)?
   We directly manage the water quality needs of three treatment facilities and two ocean outfalls with fourteen treatment facilities up to 130 peak hydraulic flow.

3. How many analysts and/or technicians work in the laboratory?
   There are five technicians, one now focused on quality assurance, and another technician budgeted for the following fiscal year.

4. What analysis do you perform? Which are for NPDES reporting?
   TSS/TVSS, BOD/cBOD, pH, DO, Conductivity, SS, Turbidity, Total Residual Chlorine. Total Coliform for Title 22 Recycle Water. Total Coliform, Fecal Coliform, Enterococcus for Receiving Water.

5. Which are strictly for operational information?
   TSS/TVSS, TS/TVS, MLC SS, Ammonia, Nitrate, Nitrite, Hardness, Volatile Acid, Alkalinity.

6. Do you accept samples for analysis from outside sources?
   Yes. Samples are for support services only which are non-regulatory.

7. Do you have one or more contract labs you send samples to for analysis? Yes

8. What instrumentation do you use?
   HACH Multimeters for BOD and pH. Orion for Ammonia and Nitrate. Hach titrator for chlorine analysis. Hach colorimeter for residual chlorine.

9. Do you utilize a LIMS system?
   No. We use a HACH database system that captures data for the whole district.

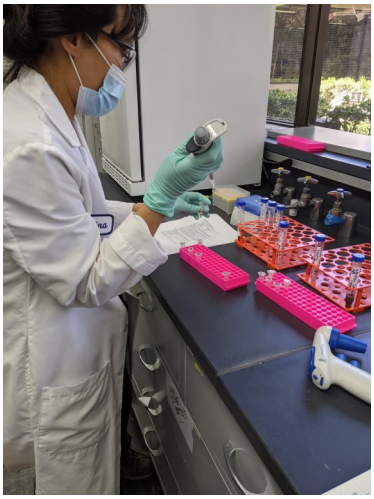
10. What sort of certification or licensure is required/encouraged for your workforce?
    All staff must obtain and maintain a CWEA certification that covers their responsibilities in the lab.

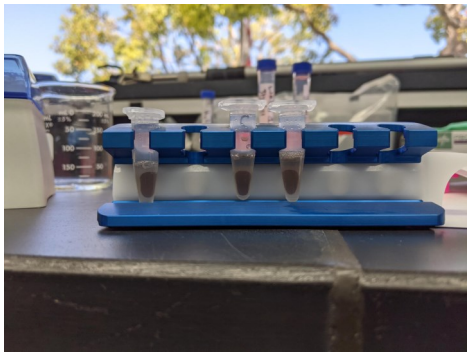
11. Are there any 'out of the box' or 'pilot' testing your lab has assisted with?
    Yes. The lab has sampled and performed some extractions for Covid studies. The lab also is involved in Enterococcus speciation of shoreline monitoring samples.

Spotlight:
South Orange County Wastewater Authority

10. Is there anything unusual or special about your facility or lab? (i.e. – aquarium fed by plant effluent in the building? Plant garden fertilized with plant biomass?) No. The plan is a conventional facility. The laboratory performs wet chemical testing and microbiological for shorelines and Title 22.

11. Is there anything else you would like to share? The lab collects and analyzes all samples. The staff's responsibilities extend outside of the lab as they are responsible for programming and maintaining the autosamplers. The staff also performs samplings at all three of SOCWA's POTWs. The staff samples and analyzes all shoreline and offshore samples required by the NPDES permits.





SOCWA staff collecting & analyzing samples associated with Covid-19 project.

Article by Amber Baylor

Lab Quiz

Safety Data Sheets, SDS, are standardized documents that provide detailed information about the hazards of a chemical or mixture, along with information on how to respond to accidental exposure. Test your knowledge of Safety Data Sheets with the quiz below.

Note: Some questions may have more than one correct answer.

1. True or False
   OSHA's Hazard Communication Standard requires that SDS be supplied to users of hazardous substances.

2. True or False
   The manufacturer must list all of a product's ingredients on the MSDS.

3. The main goal of a Hazard Communication Program is to
   a) Comply with OSHA's right to know laws
   b) Have information available for emergency rescue personnel
   c) Inform regulatory agencies about hazardous chemicals in the workplace
   d) Protect workers from hazardous conditions in the workplace

4. True or False
   Your safety is the responsibility of your supervisor.

5. MSDS include directions for first aid and emergency procedures due to exposure by:
   a) skin contact
   b) eye contact
   c) ingestion
   d) inhalation

6. True or False
   OSHA requires that all MSDS forms follow the same format.

7. Label requirements for hazardous substances, such as laboratory reagents, must include:
   a) All hazards to which the user may be exposed
   b) Symptoms of exposure
   c) Appropriate emergency treatment
   d) Proper conditions for safe use
   e) Precautions against exposure

8. True or False
   The Hazard Communication Standard requires a formal training program.

Lab Quiz: Continued

9. Hazardous materials include which of the following categories?
   a) Laboratory reagents
   b) Corrosives
   c) Toxics
   d) Flammables and explosives
   e) Asphyxiants

10. A SDS must list a substance's hazardous ingredients if they compose more than how much of the total substance?
   a) 1 percent
   b) 2 percent
   c) 5 percent
   d) 10 percent

11. True or False
   A substance's flashpoint is the temperature at which it burns.

Lab Quiz written by Mary Johnson

Standard Methods Opportunities

During our April 2021 Leadership Conference Call, William Lipps, AWWA's representative on the *Standard Methods* Joint Editorial Board, expressed his appreciation to the LPC for their help recruiting volunteers for a Joint Task Group to write a new TOC method based on the Suez (formerly GE) Innovox supercritical fluid oxidation technology. Special thanks to Akin Babatola, Farid Ramezanzadeh, and Jasmine Koster for their willingness to help with this project.

Standard Methods relies on volunteers to propose and evaluate methods. The amount of time and effort associated with joining a *Standard Methods* Committee , SMC, is up to the individual member. You can choose to receive only general ballots that are distributed to those members of the SMC who wish to receive ballots pertaining to a specific portion. Or, if you have expertise in a specific area and are willing to do more work, you can join a Joint Task Group (JTG) which comprise the committee subgroups that revise existing methods and develop new ones. They are committees of from five to 15 members and manuscripts are balloted within that group. Once the JTG approves a section, that manuscript continues in the editing process.

If you are interested in volunteering for a *Standard Methods* Committee, more information is available on their website committee page, https://www.standardmethods.org/JoinSMCommittee

Lab Quiz: Answers

1. True. However, not all industries are regulated by OSHA. Many states have adopted their own laws. State laws that have been passed are at least as stringent as the Federal Standard.

2. False. The manufacturer must only list a product's hazardous ingredients on the MSDS.

3. d

4. False. Your employer needs to provide appropriate safety equipment and training, but you are ultimately responsible for your own safety.

5. a, b, c, and d

6. False. OSHA requires all MSDS to contain the same type of information, such as a chemical's common name, safe exposure level, emergency treatment, etc. However each manufacturer may develop their own format for presenting this information.

7. a, b, c, d, and e

8. True. The formal training program should make employees aware of the hazard communication standard, familiarize employees with potentially dangerous operations and substances, explain how to read and interpret MSDS forms, train employees to use labeling format, and document training that has been performed.

9. b, c, d, and e. While laboratory reagents may be hazardous materials, they are not a specific category.

10. a. The manufacturer is not required to list proprietary information, but must provide information for all ingredients which compromise more than 1% of the substance. Carcinogens are an exception to this rule. If they compromise more than 0.1% of the substance, manufacturers must provide information regarding them.

11. False. A substance's flashpoint is the temperature at which it gives off vapors that will burn.

Correction

Thank you to Bill Gase for noticing an error in the Fall 2020 Lab Quiz.

Question 1 asked that the following numbers be rounded to three significant figures: 105.6 mg, 1067 mL, and on 0.575 g.

Answers listed were: 106 mg, 1070 mL, and 0.58 g.

The correct answer for the third number should be 0.575 g as a zero before the decimal place is not considered significant.

LPC Chair:
Mary Johnson
Rock River Water Reclamation District
mjohnson@rrwrd.illinois.gov

LPC Vice Chair
Jim Burks
City of Springfield Environmental Services
jburks@springfieldmo.gov

WEF Staff Liaison:
Trudi Bick
tbick@wef.org

Educational Content Sharing

In an effort to share best practices, innovation and the latest information for lab analysts, the WEF Lab Practices Committee (LPC) will link to educational content that has been used (and is owned) by WEF member associations (WEF LPC is not hosting the material but is linking to it).

The goal of this effort is to provide a repository of useful webcasts, seminars, etc. that can be accessed by audiences from all over the country. We believe that there is material that just needs to be shared in order to educate larger audiences.

Please contact John Rigdon, jarigdon@gmail.com, with suggestions of webinars/workshop content that you recommend we obtain or with topics you would like to see.

Check out the WEF website LPC page to see available topics.

About the LPC

The Water Environment Federation's Laboratory Practices Committee (WEF LPC) is made up of volunteer members from academia, consulting firms, utilities, government agencies, and manufacturers.

WEF LPC develops technical products to promote general understanding of laboratory practices for water and wastewater.

Membership is open to all WEF members.

SCAP
SOUTHERN CALIFORNIA ALLIANCE OF PUBLICLY OWNED TREATMENT WORKS

June 2021 - SCAP
SEMI ANNUAL REPORT HIGHLIGHTS

Engagement with State Water Board, DWR and EPA

- Indoor Water Use
- SSS WDR reopening
- PFAS
- Microplastics
- Vapor Intrusion

Engagement with SCCWRP:

- Exfiltration
- Microplastics
- OAH – Modeling Uncertainty

Presentations Provided:

- AEHS Winter Conference – Air Flow in Sewers as it relates to Vapor Intrusion
- EPA/DTSC - Air Flow in Sewers as it relates to Vapor Intrusion
- Pending – Regulators and SCCWRP CTAG Exfiltration

Comment Letters:

- ✓ CARB Clean Truck/Clean Fleet Rules
- ✓ USEPA Alternative Test Procedure for TST
- ✓ San Diego Regional Board Time Schedule Order

WELCOME NEW MEMBER!

Enthalpy Analytical

Committee Meetings/Activities Held:

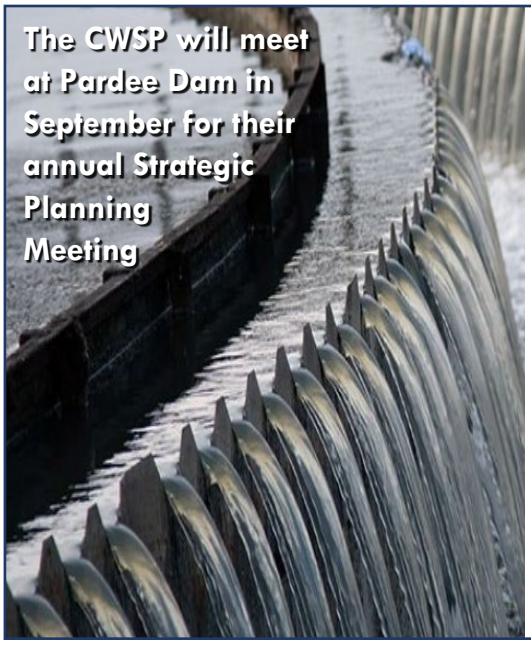
- Five Air Committee meetings
- One Collection Committee meeting
- One Joint Collection Committee meeting with CASA
- One Water Committee Meeting
- One Water Committee Toxicity Workshop with the Santa Ana Regional Water Board
- Pretreatment Committee PFAS session at CWEA P3S

Committee Meetings/Activities Planned:

- Air Committee will continue to meet monthly
- Water Committee has planned and identified speakers for the following meetings/workshops:
  - Stormwater to sewer diversions case studies Zoom
  - Ocean outfall issues workshop Zoom
  - PFAS/PFOA – SWB 13267 Compliance Workshop
  - Climate Resiliency – SWB 13267 Survey Workshop
- Energy/Air Committee – PSPS preparation and Air District compliance strategies
- Biosolids Committee tour of compost and food waste receiving facilities

Surveys Conducted:

- Wastewater Treatment Plant Staffing



The 20/21 Clean Water Summit Partners (CWSP) Priorities:

Water High Priority

- COVID-19
- Coastal Discharge Ban/Recycled Water Mandates
- PFAS/PFOA
- Exfiltration
- Toxicity Provisions
- Nutrients

Water Medium Priority

- SSS WDR
- ELAP
- Microplastics
- Ocean Acidification Action Plan
- 1211 Water Regulation
- Stormwater

Biosolids Priorities

- COVID-19
- SB 1383 Implementation
- CECs (PFAS/PFOA, Microplastics)
- Transportation/Fuel Credits for Biogas
- Office of Inspector General Biosolids Report Response
- Fire Reclamation Research

Clean Water Summit Partners

PRIORITY ISSUE DESCRIPTIONS BY COMMITTEE

AIR QUALITY ISSUES

California Air Resources Board (CARB) – New Air Toxic Emissions Reporting Regulations
On March 30, 2021, the California Air Resources Board (CARB) published 15-Day Modifications to the Regulation for the Reporting of Criteria Air Pollutants and Toxic Air Contaminants (CTR) and the AB 2588 Air Toxics "Hot Spots" Emission Inventory Criteria and Guidelines Regulation (EICG). These amended regulations are intended to reduce air toxic emissions, enhance the public's right to know and streamline statewide toxic emission reporting programs. These regulations will require each waste sector to perform an extensive two-step process to quantify toxic emissions (i.e., wastewater treatment plants, landfills and composting facilities with air permits). This process will require most emission sources at a waste facility to be tested for a vastly expanded list of toxic compounds, including PFAS (Click HERE).

As you may recall, CASA/SCAP requested adequate time to complete a statewide two-step characterization of wastewater treatment plant emissions. In response to our concerns about the challenges characterizing thousands of new toxic compounds without approved sampling or analytical procedures, CARB agreed to delay reporting for the waste sector until 2029 (i.e., 2028 data will need be reported in 2029). We believe this timeframe will allow for a comprehensive pooled emission study to be performed.

We were also successful in reducing the list of PFAS compounds applicable for wastewater treatment plants. CARB acknowledged that the original functional group PFAS list was rather extensive (i.e., about 9,200 compounds as shown HERE). In response CARB reduced the list of PFAS compounds to 62 PFAS compounds.

Although we negotiated substantial improvements, the final version of these regulations will be rather convoluted and complex. For example, we have verbally clarified that annual emission reports (AERs) will not need to include the expanded toxic compound list until 2029. However, these regulations indicate that those subject to Mandatory Greenhouse Gas Emissions Reporting would need to report in 2021. Rather than relying upon a verbal agreement, CARB agreed to provide clarification for this and other issues in their final statement of reasons.

We believe that the 15-Day Modifications will be finalized in the next couple of months, which will formally trigger the need for each waste facility to conduct a two-step characterization of toxic emissions. Due to the substantial number of sources to be tested at each facility, CASA/SCAP recommend members participate in a statewide pooled study. The pooled study will allow a small subset of treatment plants to represent the entire sector, which will provide significant cost savings for participating agencies. Upon adoption of the 15-Day Modifications, SCAP will coordinate with CASA to discuss the implementation of the statewide testing program.

California Air Resources Board (CARB) – New Advanced Clean Fleet Regulation

California legislation has various long-term goals for air pollutant reductions, climate change targets, and public health goals that require aggressive emission reductions from mobile sources. In effort to achieve the state goals, CARB continues to develop multiple regulatory initiatives to transition to zero emission technologies, primarily in the mobile sector. These efforts will potentially impact on-road and off-road equipment and vehicles operated by water and wastewater agencies.

The Advanced Clean Truck Regulation and Advanced Clean Fleet Regulation are two key regulatory initiatives that CARB is relying on to achieve the state's air quality goals. The Advanced Clean Truck Regulation was adopted in June 2020 and includes manufacturer sales mandates (starting with model year 2024) and a one-time mandatory reporting requirement.

CARB staff is currently developing the Advanced Clean Fleet Regulation and plans to return to the CARB board with a proposal by the end of 2021. The initial concepts focus on priority private fleets, drayage, and government fleets transition to zero emission vehicles, where feasible, by 2035. The proposed regulatory concepts include ZEV purchase requirements, and annual compliance reporting for vehicles with a GVWR above 8,500 lbs.

CARB currently proposes to require Zero Emission Vehicle (ZEV) purchases for public fleets as follows:

- **50%** of Model Year 2024-2026 vehicle purchases must be ZEVs
- **100%** of Model Year 2027 and newer vehicle purchases must be ZEVs
- Plug in hybrids (NZEV) count the same as ZEVs until 2035

The regulation will include an exemption process if new ZEVs are not available, however CARB has not developed all the details for the exemption process. ZEV availability for specialty vehicles and equipment, readiness for emergency response, and fueling infrastructure are some of the concerns by public fleet operators.

SCAP/CASA have also expressed concerns about CARB's definition of near zero-emission vehicles (NZEVs) as either "*an on-road plug-in hybrid electric vehicle" or "an on-road hybrid electric vehicle that has the capability to charge the battery from an off-vehicle conductive or inductive electric source and achieves all-electric range*". This definition would prohibit the use of ultra-low emission natural gas engines for on-road heavy duty vehicles, such as the Cummins-Westport engines. Due to this significant impact, we have expressed concerns about CARB's proposal to exclude RNG as a viable solution to our climate and ozone attainment problems in California.

SCAP will remain engaged in the regulatory development and will coordinate our efforts to align with CASA. Additional information regarding these regulations is located on the CARB website.

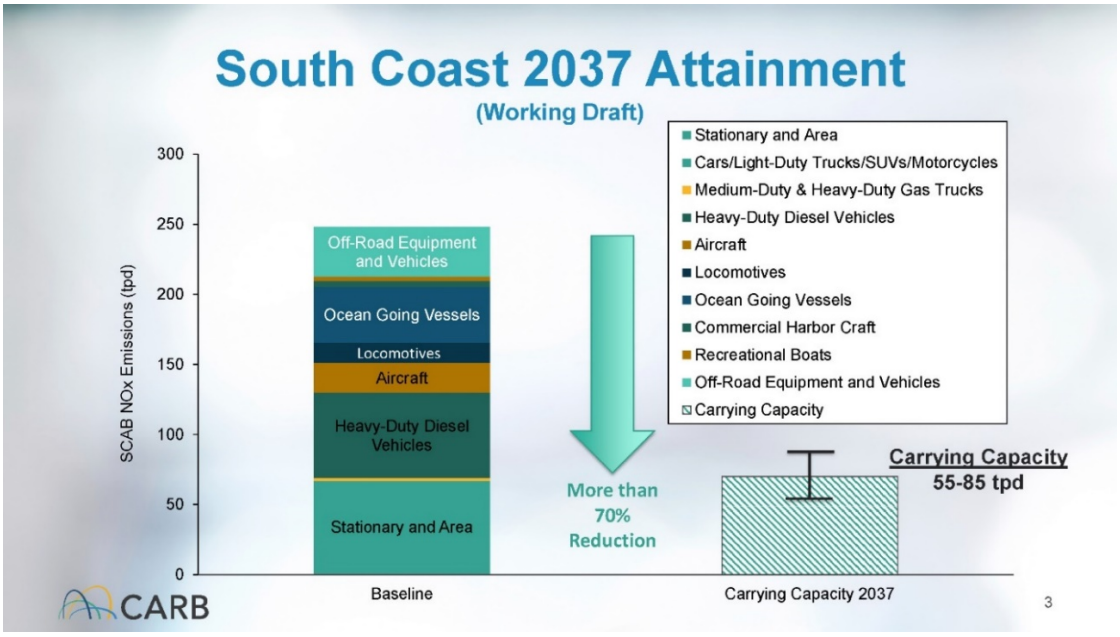
South Coast Air Quality Management District (SCAQMD) – 2022 Air Quality Management Plan (AQMP)

As set forth in the Federal and California Clean Air Act, SCAQMD has initiated development of the 2022 Ozone AQMP. SCAQMD has established working groups focused on strategizing efforts in support of the control measures to be included in the AQMP. The Residential and Commercial Buildings Working Group and the Mobile Source Working Group are open to all interested parties. The Mobile Source Working Group targets 4 categories: ocean going vessels, aircraft, trucks, and construction and industrial equipment.

The South Coast Air Basin remains classified as an "extreme" non-attainment area with the federal air quality ambient standards for ozone. As such, the 2022 Ozone AQMP is being developed with focus on addressing attainment of the 2015 EPA National Ambient Air Quality Standards (NAAQS) for criteria pollutants, specifically for the 8-hour ground-level ozone standard of 70 parts per billion (70 ppb). The figure below illustrates the sources of emissions that contribute to ozone formation in the South Coast Air Basin and more than 70% reductions will be required to achieve attainment by the 2037 deadline. In addition to demonstrating strategies for achieving attainment with the 2015 Ozone NAAQS as "expeditiously as practical" in the South Coast Air Basin and the Coachella Valley, the AQMP will also serve as a blueprint for how compliance with the proposed measures will be maintained and enforced. This will be achieved through several pathways of proposed measures in the near and long term, which should rely primarily on CARB's Advanced Clean Fleet requirements.

At this time, the AQMP overall schedule anticipates compiling of the draft control measures by August 2021 and possible release of the draft AQMP by late Fall 2021. SCAP will remain engaged in the regulatory development process of the 2022 AQMP.

If you are interested in learning more about involvement opportunities, please click HERE.



Emergency Stationary Diesel Tier 4 Generators – Automatic Shutoff Inducement
On December 22, 2020, BAAQMD published new best available control technology (BACT) standards for large Tier 4 emergency diesel generators (Click HERE) and SMAQMD subsequently followed with the same standards (Click HERE). SCAQMD is now considering adopting the same restrictions. The problem with certified Tier 4 emergency diesel generators is that software can shutdown the unit upon sensing potential problems with the built-in pollution controls. In addition, these emergency generators cannot be reset without manufacturer support.

Unfortunately, few people are aware of the required automatic inducement feature on certified Tier 4 generators. Upon the realization that these emergency generators might not be as reliable as previous generators, SCAP and CASA have started to discuss our concerns with various air districts. At the moment, we recommend members talk to their emergency generator providers to determine potential options when purchasing new emergency diesel generators. SCAP and CASA will continue to discuss our concerns with the regulatory community and attempt to identify solutions that will improve the reliability of Tier 4 emergency diesel generators.

If there are any questions or air quality concerns, please feel free to contact the Air Quality Committee:

David Rothbart (Committee Chair) - drothbart@lacsd.org
Alison Torres (Co-Vice Chair) - torresa@emwd.org
Randa AbuShaban (Co-Vice Chair) - rabushaban@ocsd.com

The SCAP Air Quality Committee usually meets monthly on Tuesdays from 10:00 am to 12:00 pm at LACSD, 1955 Workman Mill Road, Whittier, CA. A call-in number is provided. During the COVID – 19 Stay at Home order we will conduct meetings with Zoom. If you do not have Zoom you can participate with a provided call in number.

To join the Air Quality Committee, please email a request to info@scap1.org

PRETREAMENT ISSUES

SCAP at the Annual CWEA Pretreatment, Pollution Prevention, and Stormwater (P3S) Conference

The P3S Conference was a virtual conference, held March 8-11, 2021. The SCAP Pretreatment Committee hosted a PFAS session, which was curated and moderated by SCAP and was very well received.

2021 Final Effluent Guidelines Program Plan 14

Under the Clean Water Act, EPA is required to publish an Effluent Guidelines Program Plan every two years. EPA's plan provides an update on existing effluent guidelines in development or under revision and outlines EPA's agenda regarding effluent guidelines going forward. In January 2021, EPA published the final Plan 14. In Plan 14, EPA concluded the study into the Petroleum Refining category, provided updates on the Electric and Electronic Components study and PFAS Multi-Industry Study, outlined proposed revisions to the Centralized Waste Treatment Category, and announced two upcoming proposed rulemakings for the Steam Electric Power and Organic Chemicals, Plastics, and Synthetic Fibers category. (https://www.epa.gov/eg/current-effluent-guidelines-program-plan)

EPA Advance Notice of Proposed Rulemaking for the Organic Chemicals, Plastics and Synthetic Fibers Category (40 CFR 414)

On March 16, 2021, EPA released an advance notice of proposed rulemaking (ANPRM) to initiate data collection, analysis, and public comment to support possible future rulemaking changes relating to the Organic Chemicals, Plastics and Synthetic Fibers (OCPSF) point source category. The project seeks to address discharges from manufacturers of per- and polyfluorinated substances (PFAS) and could also include formulators. The set of industrial dischargers that would be of interest is probably a small percentage of the dischargers in the OCPSF category, but SCAP members should consider submitting data and comments if they have any PFAS manufacturers or formulators. (https://www.epa.gov/eg/organic-chemicals-plastics-and-synthetic-fibers-effluent-guidelines)

Dental Office Category (40 CFR 441)

The due date to submit compliance reports (certification forms) was October 14, 2020. Pretreatment Programs continue to follow-up dental offices that have not submitted certification forms and identify new dental offices or ones that change ownership. (https://www.epa.gov/eg/dental-effluent-guidelines)

PFAS

Federal Updates:

1. EPA is progressing on the PFAS Action Plan (https://www.epa.gov/newsreleases/epa-delivers-results-pfas-action-plan); however, EPA has not yet published final EPA-approved test methods for analyzing PFAS analytes in wastewater and biosolids. (https://www.epa.gov/chemical-research/status-epa-research-and-development-pfas)
2. Revisions to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Resource Conservation and Recovery Act (RCRA) regulations have not been finalized yet, but EPA issued an advance notice of proposed rulemaking seeking comments whether PFOS and PFOA should be regulated under CERCLA and RCRA, and Congress is also proposing to designate PFAS as hazardous substances under CERCLA.

California State Water Resources Control Board (SWRCB) Updates:

1. On July 9, 2020, the SWRCB issued a General Order, and the 259 Publicly Owned Treatment Works (POTWs) with a design capacity of ≥1 million gallons per day (MGD) received their individual investigative orders thereafter. This order is colloquially referred to as the "PFAS Phase 3 Investigatory Order" or "Sections 13267 and 13383 Order." As required, the POTWs receiving the Investigatory Order have collected and submitted at least two rounds of sampling data to date.
2. In February 2020, the SWRCB DDW requested that the Office of Environmental Health Hazard Assessment (OEHHA) recommend possible notification levels for 7 PFAS compounds detected at sites covered under the Phase 1 Investigative Orders. On March 5, 2021, the State Water Resources Control Board Division of Drinking Water (DDW) issued new Notification and Response Levels for perfluorobutane sulfonic acid (PFBS) of 0.5 parts per billion (ppb) and 5 ppb, respectively. The other compounds under consideration are perfluorohexane sulfonic acid (PFHxS); perfluorohexanoic acid (PFHxA); perfluoroheptanoic acid (PFHpA); perfluorononanoic acid (PFNA); perfluorodecanoic acid (PFDA); 4,8-dioxia-3H-perflourononanoic acid (ADONA)
3. In conformance with AB 756, the State Board on February 16, 2021, issued a General Order Requiring Monitoring for PFAS at public water systems near military facilities. This action was an expansion of the monitoring effort previously conducted in 2019. In general, the requirement is to conduct quarterly monitoring using EPA method 537.1 until further notice.
4. On March 12, 2021, the State Board issued an investigative order to Bulk Fuel Storage Terminals and Refineries that were known to have stored or used PFAS materials. The order requires a one-time preliminary site investigation that includes a sampling plan for a minimum of 31 PFAS constituents. Sampling locations expected to be covered in the plan include surface and subsurface soil, influent, effluent, groundwater, and stormwater, as applicable where materials with PFAS are/were located, has been released, or may have been released.

State of California Draft DPR (Direct Potable Reuse) Regulations

In March 2021, DDW posted a "Proposed Framework for Regulating Direct Potable Reuse", which includes additional requirements for source control. An online presentation about the proposed framework is available at www.youtube.com/watch?v=MT58mxTWD2E. Currently, SCAP member agencies are reviewing the draft regulations and preparing comments.
https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/direct_potable_reuse.html

SB 212 (2018) Solid Waste: Pharmaceutical and Sharps Waste Stewardship

SB 212 (2018) established a statewide stewardship program ("take-back program"), under which manufacturers and distributors of covered drugs or sharps are required to implement and fund stewardship programs for covered drugs and sharps, either individually or through membership in a stewardship organization. The law is the first of its kind in the nation and should benefit SCAP member agencies by reducing the quantities of pharmaceuticals discharged to municipal sewer systems. CalRecycle has jurisdiction over the program, and the implementation timeline calls for covered entities (or stewardship organizations) to submit stewardship plans by July 7, 2021, and CalRecycle to respond by October 5, 2021. Covered entities are subject to penalties if a covered product is not subject to an approved stewardship plan by January 7, 2022.
(https://www.calrecycle.ca.gov/epr/pharmasharps)

Other Issues

Microplastics, Harmful Algal Blooms/Nutrients, Toxicity, and Reservoir Augmentation (Indirect and Direct Potable Reuse) policy and regulations.

If there are any questions or concerns, please feel free to contact the Pretreatment Committee:
Mark Kawamoto (Committee Chair) – mkawamoto@ocsd.com
Larry Smith (Vice Chair) – lsmith@lacsd.org
To join the Pretreatment Committee, please email a request to info@scap1.org

BIOSOLIDS

Committee meetings/activities to date in 2021

- Joint virtual monthly meetings with CASA/SCAP
- SCAP Biennial Biosolids Survey questionnaire format coordinated with BACWA

Planned or projected meetings/activities 2021

- No current planned tours in 2021 due to Pandemic, will adjust through the year
- Looking forward to food waste, co-digestion and/or compost facility tours as social distancing practices will allow

List of Top Items:

SCAP Biennial Biosolids Survey

Biosolids committee is in the process of finalizing the SCAP Biennial Biosolids Survey. The committee is working closely with the Bay Area Clean Water Agencies' biosolids committee to

ensure questions are consistent. The intent of this survey is to identify current industry trends such as 1) Biosolids Production, 2) Dewatering Technologies, 3) Biosolids Management Technologies and Destinations, 4) Biosolids Management Costs and Transportation Rates, 5) Agency Challenges, 6) Co-digestion and Food Waste, 7) Agencies Future Biosolids Management Plans, and 8) Marketing and Media Practices. The information provided has been useful to SCAP members for future biosolids management planning.

SB 1383 Short-Lived Climate Pollutant Reduction - Procurement

SCAP continues to support CASA in their effort to work with CalRecycle to expand the eligible biosolids products procurement as required under SB 1383. Currently, only biosolids compost is eligible even though it could be argued that other biosolids products which are land applied similarly could reduce greenhouse gas emissions. CASA will continue to initiate dialogue with CalRecycle and SCAP members will participate. In addition, CalRecycle has published the organic waste recycling capacity planning calculator. SB 1383 requires California counties and each city, regional agency, and special district that provides solid waste collection services within each county, to plan for adequate capacity for recycling organic waste. CalRecycle is providing this optional calculator to assist jurisdictions with this organics recycling planning requirement. SCAP will continue to track.

State Water Board General Order - Biosolids

With the adoption and implementation of SB 1383, there will be more reliance on the General Order (GO) for the land application of biosolids. SCAP will continue to work with CASA to support revisions to the GO for consistency with SB 1383. At this time the State Water Board is evaluating the order, but the agency is understaffed. There are three other GOs in the queue ahead of the biosolids GO which need to be revised. There is still no clear indication on when the biosolids GO review will be initiated.

PFAS Phase 3 Order

SCAP members continue to support CASA during the Phase 3 Order that requires POTWs to sample influent, effluent, and biosolids for PFAS. Currently, analytical results are now available on the GeoTracker PFAS Mapping tool. In addition, SWRCB has provided an update on how to report estimated data in GeoTracker, to Environmental Laboratory Accreditation Program (ELAP)-accredited labs that are performing analytical testing per the Investigative Order. SWRCB asked the labs to follow this guidance from this point forward; agencies' corrections to previous submittals into GeoTracker is welcomed.

If there are any questions or concerns, please feel free to contact the Biosolids Committee:
Tom Meregillano – tmeregillano@ocsan.gov
Janet Samala - janet.samala@lacity.org.
Christina Jones – christina.jones@lacity.org

To join the Biosolids Committee, please email a request to info@scap1.org

COLLECTION SYSTEMS

The Collection Committee has had two meetings: a SCAP meeting on March 11 and a joint meeting with SCAP and CASA on May 19, via Zoom.

The March meeting discussed the following items:

- SSS WDR update
- Exfiltration
- DTSC Vapor Intrusion Guidance
- CARB Advanced Clean Truck Rules
- System Resiliency for Regulators
- NGO litigation common practices
- Smoke Testing
- H2S monitoring and other Remote Monitoring Applications

The May joint meeting with CASA discussed the following items:

- SSS WDR Order informal draft
- San Diego Regional Water Board Investigative Order Research with SCCWRP
- Department of Water Resources Indoor Water Conservation Goals
- Non-flushable Wipes Legislation Campaign
- DTSC Vapor Intrusion Guidance and Sewer Air Flow
- California Air Resources Board Advanced Clean Truck/Fleet Rules
- BACT Tier 4 Emergency Generator Auto Shutoff
- Public Safety Power Shutoff (PSPS) Rule Update
- Recent Enforcement Actions, Litigation, Settlements, Consent Decrees

Sanitary Sewer System Waste Discharge Requirements

The SSS WDR is being re-opened since its first introduction in 2006. Discussions with the SWRCB staff on this initiative have been inclusive and very productive. The SWRCB provided an informal draft SSS WDR Order on February 12, 2021. Two public workshops were also held in April 13 and 16, 2021, to ask questions and provide feedback on the informal draft. SCAP continues to be highly engaged in negotiations on SSS WDR Order language with the State Water Board and completed a detailed redline/strike out document on the informal draft in coordination with the Clean Water Summit Partners.

New elements of the informal draft SSS WDR include:

- Expanded coverage for private systems ordered by a Regional Water Board
- Clarify the existing prohibition of untreated waste discharge to waters of the US
- Detailed definition of spill to include underground exfiltrated sewage
- Includes new Water Board policies since 2006
- System resiliency planning elements in Sewer System Management Plan

- Emphasized requirement of PE, or Grade 3 or higher Operator to be an LRO
- System performance analysis
- SSMP recertification and SSMP audit – same 5 year and 2 year respectively
- Category 4 SSO - Incentive for enhanced certified operator staffing and good system performance (<50 gallon) for record keeping only
- Submission of a sewer system area boundary map
- Required notification of spills from private-owned sewer laterals to Regional Water Board
- Coordination with drinking water and stormwater agencies within service area
- Responsibility for Enrollees to submit system performance graph
- Conversion of annual Questionnaire to an Annual Report
- New reporting requirements for Category SSOs.

Next steps are a continuing discussion between SWRCB, SCAP, and NGOs on the informal draft SSS WDR Order.

Exfiltration

Theories of Exfiltration from sewer collection systems to MS4s continue to be an emerging issue. There are now several citizen suits citing Exfiltration as a source of human fecal bacteria in the environment. In response to the San Diego Region investigative order SCCWRP is conducting a five-year five-million-dollar study to identify and quantify sources of human fecal bacteria in the San Diego River watershed. Included in the SCCWRP study is an investigation of sewer exfiltration using tanks and pumps to circulate potable water through an isolated section of sewer and measuring the water loss, if any. SCAP is monitoring this effort closely.

SCAP is and will continue to be highly engaged with Exfiltration issues and we are closely working with CASA and the Summit Partners. We have made numerous presentations and continue to network with academia and collection system professionals to improve our knowledge and messaging. Next steps are an Exfiltration one pager and an in depth Exfiltration workshop targeted towards regulators, environmental organizations as well as wastewater professionals.

If there are any questions or concerns, please feel free to contact the Collections Committee:

Dindo Carrillo (Committee Chair) – dcarrillo@ocsd.com
Ralph Palomares (Committee Chair) – rpalomares@etwd.com

To join the Collections Systems Committee, please email a request to info@scap1.org

ENERGY

Committee meetings:
The Energy Committee is planning a meeting to discuss self-generation energy opportunities and issues as well as zero emission options for emergency backup power.

Public Safety Power Shutoff (PSPS)
During Public Safety Power Shutoff (PSPS) events, utilities proactively shutoff power in fire-prone areas at times of windy and dry weather conditions in an attempt to reduce risk of electric utility infrastructure from starting wildfires. PSPS energy outages will test emergency power systems and could jeopardize generator run time hour permit limits. The SCAQMD is in the process of rulemaking that will allow for more generator testing flexibility and PSPS run time flexibility.

Other Issues

- Community Choice Aggregation Coming to a City near You
- Low Carbon Fuel Standard (LCFS) Guidance for Low-Carbon Intensity Electricity
- Funding/Incentives
- Over-generation and grid stability
- Renewable Natural Gas (RNG)
- Renewable Identification Number (RIN)

If there are any questions or concerns, please feel free to contact the Energy Committee:
Pietro Cambiaso (Committee Chair) – pcambias@ieua.org
Ray Bennett (Committee Co-Vice Chair) – bennett@irwd.com

To join the Energy Committee, please email a request to info@scap1.org

WATER

Department of Water Resources Draft Revised IRWUS Recommendations
On May 11, the Department of Water Resources (DWR) formally released recommendations in a draft report for the Legislature to revise the indoor residential water use standards (IRWUS). DWR is proposing revised targets of 47 gallons per capita per day (gpcd) by 2025 and 42 gpcd by 2030. In response to the IRWUS targets, SCAP and the Clean Water Summit Partners have meet with the SWB, DWR and an academic economic analysis team to discuss the adverse effects of wastewater and recycles water systems. SCAP is coordinating with CASA to provide comments on the draft report which are due on June 4, 2021.

Microplastics
Microplastics continue to rise as an important CEC. The latest activity involves an OPC funded study to evaluate the efficacy of wastewater treatment plants for the removal of microplastics. The study is being conducted by SCCWRP. CASA is assisting with implementation of the study with SCAP taking an advisory role. A survey will be circulated in June to seek POTW interest in participation in the study in the form of collecting samples from various stages of the treatment process.

Toxicity Provisions
The Toxicity Provisions were adopted by the SWRCB on December 1, 2020. The Toxicity Provisions include the Test of Significant Toxicity (TST) which is problematic for freshwater dischargers with *Ceriodaphnia dubia* as the test species due to a high rate of non-toxic water being identified as toxic (false positive). The TST is an un-promulgated method and is the crux of the SCAP litigation with EPA. One concession that has been made is to include a study on the accuracy of the TST with *Ceriodaphnia dubia.* SCCWRP will be conducting the study with funding from the SWRCB and voluntary funding or in-kind services from the POTW community. The goal is a 50/50 funding (in-kind services) split for a two-million-dollar study. Although this is a positive step, there are still many details to be worked out and how the results of the study would influence compliance elements of the study is unclear.

PFAS
PFAS is one of the most critical water issues right now. SWRCB has significantly lowered the notification limits, causing several water agencies to turn off supply wells. SCAP coordinated with the Clean Water Summit Partners to organize a third PFAS workshop held on January 6, 2021.

See the Pre-Treatment Section for a detailed description of the SWRCB PFAS sampling order.

SCAP continues to work with consumer protection agencies emphasizing that PFAS is a product stewardship issue and should not be controlled by water treatment when manufacturing and distribution continues worldwide. We are encouraged by the progress made with this initiative.

Bio-stimulatory/Bio-integrity Provisions plus Ocean Acidification and Hypoxia

Both of these emerging issues are in the science data gathering phase. Early indications are that the policies will result in low nitrogen and phosphorus limits for POTWs. We are monitoring these closely with a focus on making sure the science is robust and accurate or at a minimum appropriately applied.

If there are any questions or concerns, please feel free to contact the Water Committee:

Lisa Haney (Committee Chair) – haney@irwd.com
Lyndy Lewis (Committee Co-Vice Chair) – llewis@wmwd.com
Amber Baylor (Committee Co-Vice Chair) - abaylor@socwa.com

To join the Water Committee, please email a request to info@scap1.org