

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


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

AGENDA

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

Thursday, April 6, 2017
8:30 a.m.

THE BOARD OF DIRECTORS MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E. ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.), PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY'S OFFICE AT 949-234-5421 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY 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 FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN 72 HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE BOARD OF DIRECTORS MEETING ROOM.

1. CALL MEETING TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ORAL COMMUNICATIONS

- A. 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 item is discussed by the board. There will be a three-minute limit for public comments.

4. PRESENTATION

- A. Board Room Chairs Demonstration

Al Agramonte, President of Ergonomic Comfort Design

5. CONSENT CALENDAR

A. Approval of Minutes

Board of Directors Meeting March 2, 2017.....	1
Executive Committee Meeting March 2, 2017.....	6
Finance Committee Meeting December 7, 2016.....	7
Engineering Committee February 9, 2017	9

ACTION The Board will be requested to approve subject Minutes.

B. Financial Matters

New Employee Announcement and Month and Year-to-Date February 28, 2017 Report	13
Summary of Disbursements for December 2016 – Exhibit A.....	16
Schedule of Funds Available for Reinvestment – Exhibit B	17
Schedule of Cash and Investments – Exhibit C	18
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Budget vs. Actual Expenses – Exhibits E1-E4

Operations/Maintenance & Environmental Safety Costs – Exhibit E1	21
Engineering Budget vs. Actual Comparison – Exhibit E2.....	23
Administration Budget vs. Actual Comparison – Exhibit E3.....	24
Information Technology (IT) Budget vs. Actual Comparison – Exhibit E4.....	25

ACTION The Board will be requested to receive and file subject reports.

C. Operational Reports

Monthly Operations Report – February 2017	26
Ocean Outfall Discharges	35
Beach/Ocean Monitoring Report.....	37
Recycled Water Report.....	56
Pretreatment Report.....	60

ACTION The Board will be requested to receive and file subject reports.

D. Capital Improvement Program

Capital Improvement Status Reports	64
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ACTION The Board will be requested to receive and file subject reports.

E. Project Committee No. 15

Approval of Minutes – March 3, 2016.....80

ACTION The PC15 Board will be requested to approve subject Minutes.

F. Project Committee No. 17

Replacement of Southern California Edison Service at Regional Treatment Plant.....82

ACTION The PC17 Board is requested to approve the payment of the \$187,609.12 to Southern California Edison.

6. ENGINEERING MATTERS

A. Award of Engineering Services Contract to Lee & Ro86

ACTION The Board will be requested to approve the award of the design services contract to Lee & Ro at a fee of \$136,072.00.

7. GENERAL MANAGER’S REPORTS

A. General Manager’s Status Report.....90

ACTION The Board will review the General Manager’s Status Report:

- Board Questions
- Receive and file

B. Resolution No. 2017-01 – William Cameron Commendation.....95

ACTION The Board will be requested to approve Resolution No. 2017-01 commending Mr. Cameron for his service to SOCWA.

8. CLOSED SESSION

A. Conference with SOCWA Labor Negotiator – Closed Session.

In Preparation for 2017 Employee MOU Renewal a Closed Session will be conducted in accordance with Government Code Section 54957.6.

Conference with SOCWA Negotiator - Betty Burnett, GM
Employee Organization – SOCWA Employee Association

9. OTHER MATTERS

A. 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-thirds are present an unanimous vote.]

10. ADJOURNMENT

THE NEXT REGULAR SOCWA BOARD MEETING WILL BE HELD ON
MAY 4, 2017 AT 8:30 A.M.

**MINUTES OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

Board of Directors

March 2, 2017

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, March 2, 2017, at 8:30 a.m. at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR, Emerald Bay Water District	Director
SCOTT GOLDMAN, El Toro Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
MATT COLLINGS, Moulton Niguel Water District	Alternate Director
TONI ISEMAN, City of Laguna Beach	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
DENNIS ERDMAN, South Coast Water District	Alternate Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
DAVE REBENS DORF, City of San Clemente	Alternate Director

Absent:

DOUG REINHART, Irvine Ranch Water District	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
ANDY BRUNHART, South Coast Water District	Director
BILL CAMERON, City of San Clemente	Director

Staff present:

BETTY BURNETT	General Manager/Secretary
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
BRIAN PECK	Director of Engineering
BRENNON FLAHIVE	Environmental Compliance Administrator
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
JEANETTE COTINOLA	Procurement and Contracts Administrator
AMBER BAYLOR	Environmental Compliance Specialist
JASON MANNING	Senior Engineer
TERI NOSON	Executive Assistant/Assistant Secretary

Also present:

DONALD FROELICH	Moulton Niguel Water District
TREVOR AGRELIUS	Moulton Niguel Water District
FRED ADJARIAN	El Toro Water District
JIM REED	Irvine Ranch Water District
HECTOR RUIZ	Trabuco Canyon Water District
STU LUCE	Public

Chairman Ferons called the meeting to order at 8:30 a.m. and welcomed everyone present. Director Erdman led the Pledge of Allegiance to the Flag of the United States of America.

Oral Comments

Chairman Ferons asked if members of the public desired to address the Board, or desired to reserve addressing the Board during the meeting regarding any item the Agenda.

No comments were received.

ACTION TAKEN

No action required.

Consent Calendar

Chairman Ferons referenced the items under the Consent Calendar and asked if there were any questions or comments.

Director Collings requested that items F2. Change Order – Dudek Design & Environmental Services Contract, F3. Change Order – Pascal & Ludwig Construction Contract, H1. Award of Emergency Services Environmental Services for Aliso Canyon Storm Damage Repair, and H2. Award of Emergency Services Engineering Services for Aliso Canyon Storm Damage Repair to be pulled from the Consent Calendar for a separate vote.

ACTION TAKEN

Motion was made by Director Erdman and seconded by Collings to approve the remaining items under the consent calendar.

Motion carried:	Aye 9; Nay 0; Abstain 0; Absent 1
Director Dunbar	Aye
Director Goldman	Aye
Director Miller	Aye
Director Collings	Aye
Director Reinhart	Absent
Vice Chairman Iseman	Aye
Chairman Ferons	Aye
Director Erdman	Aye
Director Dopudja	Aye
Director Rebensdorf	Aye

Item F2. Change Order – Dudek Design & Environmental Services Contract [PC15]

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Erdman to approve Change Order 5 to the design and environmental services contract with Dudek for the Coastal Treatment Plant Export Sludge System Replacement Project.

Motion carried:	Aye 3; Nay 1; Abstain 0; Absent 0
Director Dunbar	Aye
Director Collings	Nay
Vice Chairman Iseman	Aye
Director Erdman	Aye

Item F3. Change Order – Pascal & Ludwig Construction Contract [PC15]

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Erdman to approve Change Order 5 to the construction contract with Pascal & Ludwig for the Coastal Treatment Miscellaneous Improvements 2015 Project.

Motion carried: Aye 3; Nay 1; Abstain 0; Absent 0

Director Dunbar	Aye
Director Collings	Nay
Vice Chairman Iseman	Aye
Director Erdman	Aye

Item H1. Award of Emergency Services Environmental Services for Aliso Canyon Storm Damage Repair [PC15 & 21]

ACTION TAKEN

Motion was made by Director Erdman and seconded by Director Dunbar to approve the award of the environmental services contract to Dudek at a fee of \$94,150.

Motion carried: Aye 4; Nay 1; Abstain 0; Absent 1

Director Dunbar	Aye
Director Collings	Nay
Vice Chairman Iseman	Aye
Director Erdman	Aye
Director Goldman	Aye
Director Reinhart	Absent

Item H2. Award of Emergency Services Engineering Services for Aliso Canyon Storm Damage Repair [PC15 & 21]

ACTION TAKEN

Motion was made by Director Erdman and seconded by Director Dunbar to approve the emergency evaluation and design services contract to TetraTech at a fee of \$140,000.

Motion carried: Aye 4; Nay 1; Abstain 0; Absent 1

Director Dunbar	Aye
Director Collings	Nay
Vice Chairman Iseman	Aye
Director Erdman	Aye
Director Goldman	Aye
Director Reinhart	Absent

Engineering Matters

Award of Upgrade Services Contract – J.B. Latham Treatment Plant [PC2]

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Erdman to approve the award of upgrade services contract to Andritz at a fee of \$179,436

Motion carried: Aye 4; Nay 0; Abstain 0; Absent 0
Director Miller Aye
Director Collings Aye
Chairman Ferons Aye
Director Erdman Aye

General Manager's Report

Ms. Burnett provided a brief summary of the General Manager's Report as submitted on page 174 of the Agenda book noting that the WaterReuse will hold its annual conference on March 21, 2017, in San Diego, CA.

Mr. Burror proved a storm update as submitted on page 173 of the Agenda book.

ACTION TAKEN

There being no objection Chairman Ferons directed that the General Manager's Status Report be received and filed as submitted.

Other Matters

Chairman Ferons asked if there were any more questions or comments from the Board. There were none.

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 9:07 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 of March 2, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

**SUMMARY OF BOARD ACTIONS
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

March 2, 2017

<u>DESCRIPTION</u>	<u>MOTION MADE BY</u>	<u>ACTION</u>
Consent Calendar	Erdman	Approved
Change Order – Dudek Design & Environmental Services Contract [PC15]	Dunbar	Approved
Change Order – Pascal & Ludwig Construction Contract [PC15]	Dunbar	Approved
Award of Emergency Services Environmental Services for Aliso Canyon Storm Damage Repair [PC15 & 21]	Erdman	Approved
Award of Emergency Services Engineering Services for Aliso Canyon Storm Damage Repair [PC15 & 21]	Erdman	Approved
Award of Upgrad Services Contract – J.B. Latham Treatment Plant [PC2]	Collings	Approved

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

Executive Committee

March 2, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Executive Committee Meeting was held on March 2, 2017, at 9:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Executive Committee were present:

MICHAEL DUNBAR	Emerald Bay Service District
MATT COLLINGS	Moulton Niguel Water District
DAN FERONS	Santa Margarita Water District
TONI ISEMAN	City of Laguna Beach

Staff Present:

BETTY BURNETT	General Manager/Secretary
MARY CAREY	Finance Controller
BRAD NEUFELD	Varner & Brandt [arrival 10:00 a.m.]

Chairman Ferons called the meeting to order at 9:30 a.m. and welcomed everyone present. The Executive Committee entered into Closed Session at 9:31 a.m.

Public Comments

There were no public comments.

Closed Session

Conference with SOCWA Labor Negotiator – Closed Session

- a. In Preparation for 2017 Employee MOU Renewal a Closed Session will be conducted in accordance with Government Code Section 54957.6.

Conference with SOCWA Negotiator - Betty Burnett, GM
Employee Organization – SOCWA Employee Association

The Board ended closed session at 11:44 a.m.

ACTION TAKEN

No action was taken in closed session.

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 11:45 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of Special Meeting of the South Orange County Wastewater Authority Executive Committee of September 21, 2016, and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

Betty C. Burnett, General Manger / Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

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

Finance Committee

December 7, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on Wednesday, December 7, 2016 at 9:00 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Executive Committee were present:

MATT COLLINGS	Moulton Niguel Water District
TONI ISEMAN	City of Laguna Beach
DENNIS ERDMAN	South Coast Water District
RAY MILLER	City of San Juan Capistrano
DAN FERONS	Santa Margarita Water District
FRED ADJARIAN	El Toro Water District

Staff Present:

BETTY BURNETT	General Manager
MARY CAREY	Finance Controller
TERI NOSON	Executive Assistant/Clerk of the Board
BRENNON FLHAIVE	Director of Environmental Compliance
AMBER BAYLOR	Environmental Compliance Specialist
JIM BURROR	Director of Operations

Also Present:

CAROLYN RATHBONE	South Coast Water District
ERICA CASTILLO	Santa Margarita Water District

Chairman Erdman called the meeting to order at 9:01 a.m. and welcomed everyone present.

Public Comments

No public comments were received.

Approval of Minutes

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Miller to approve the August 30, 2016 and October 25, 2016, meeting minutes.

Motion carried:	Aye 5; Nay 0; Abstain 1; Absent 0
	Director Collings Aye
	Director Erdman Aye
	Director Miller Aye
	Director Ferons Aye
	Director Iseman Aye
	Director Adjarian Abstain

Review of FY 2015-16 Use Audit

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Miller to approve the FY 2015/16 Use Audit.

Motion carried:	Aye 6; Nay 0; Abstain 0; Absent 0
Director Collings	Aye
Director Erdman	Aye
Director Miller	Aye
Director Ferons	Aye
Director Iseman	Aye
Director Adjarian	Aye

Adjournment

There being no further business, Chairman Erdman adjourned the meeting at 10:30 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of Special Meeting of the South Orange County Wastewater Authority Finance Committee of December 7, 2016, and approved and ratified 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

February 9, 2017

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was held on Thursday, February 9 2017, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members were present:

MARC SERNA
DON BUNTS
RICK SHINTAKU
DAVID SHISSLER
KEVIN BURTON
MIKE MARQUIS
MICHAEL DUNBAR
DENNIS CAFFERTY

Moulton Niguel Water District
Santa Margarita Water District
South Coast Water District [arrival 8:35 a.m.]
City of Laguna Beach [exit 10:08 a.m.]
Irvine Ranch Water District [exit 10:07 a.m.]
City of San Juan Capistrano
Emerald Bay Service District [exit 10:08 a.m.]
El Toro Water District [exit 10:07 a.m.]

Absent:

HECTOR RUIZ
DAVE REBENSORF

Trabuco Canyon Water District
City of San Clemente

Staff Present:

BETTY BRUNETT
BRIAN PECK
JASON MANNING
RONI YOUNG-GRANT
JIM BURROR
BRENNON FLAHIVE
JEANETTE COTINOLA

General Manager [arrival 8:40 a.m.]
Director of Engineering
Senior Engineer
Associate Engineer
Director of Operations
Director of Environmental Compliance
Procurement/Contracts Administrator

Also Present:

MIKE METTS
MARK BUTIER

Dudek [exit 9:00 a.m.]
Butier [exit 9:00 a.m.]

Mr. Peck called the meeting to order at 8:33 a.m. and welcomed everyone present.

Public Comments

Mr. Peck asked if members of the public desired to address the Engineering Committee or desired to reserve addressing the Engineering Committee during the meeting regarding any item on the Agenda.

No comments were received.

Review/Approval of Meeting Minutes

ACTION TAKEN:

Motion was made by Mr. Shissler and seconded by Mr. Bunts to approve the January 12, 2017, Engineering Committee Meeting minutes as submitted.

Motion carried: Aye 5; Nay 0; Abstain 3; Absent 2

Michael Dunbar Abstain
Kevin Burton Abstain

Rick Shintaku	Aye
Marc Serna	Aye
Mike Marquis	Abstain
Dave Rebensdorf	Absent
Don Bunts	Aye
Hector Ruiz	Absent
Dennis Cafferty	Aye
David Shissler	Aye

Operations Report

DISCUSSION:

Mr. Burror gave a presentation covering the impact of the January 22, 2017, storm event on SOCWA facilities. Mr. Burror intends to hold a meeting with all of the member agencies operations staff to discuss storm event response. This meeting will address things that can be done to limit inflow into the collection systems.

ACTION TAKEN:

No action taken at this time.

Coastal Treatment Plant Access Road Damage and Repair (Project Committees 15 & 21)

DISCUSSION:

Mr. Peck presented a PowerPoint presentation regarding storm damage to the Aliso Creek embankments adjacent to both the paved access road (west side) and the dirt road (east side). Mr. Peck reviewed the five impacted sites. Patti Sexton of TetraTech has been retained to develop emergency repair designs and assist with procuring contractors. Dudek will provide services to assist in filing emergency permit applications. Mr. Peck reviewed the proposed costs and the allocation to the member agencies.

ACTION TAKEN

No action taken at this time.

Coastal Treatment Plant Export Sludge System Project Update (Project Committee 15)

DISCUSSION:

Mike Metts of Dudek gave a presentation on the status of the Export Sludge project. Bidding of the project is currently slated for the summer of 2017. Mr. Metts departed. The Engineering Committee discussed the proposed amendment to the Dudek design contract. The extra services included (i) Endangered Species consultation, (ii) continued 404 Nationwide Permit processing, and (iii) Habitat and Monitoring Plan revisions. Mr. Peck indicated that one additional change was forthcoming related to the processing of the Coastal Permit conditions.

ACTION TAKEN

The representatives from EBSD, CLB and SCWD supported the proposed amendment to the Dudek contract. The MNWD representative did not support the Project Committee 15 related SOCWA staff recommendation due to the MNWD position regarding the Project Committee 15 capital budget.

Coastal Treatment Plant Miscellaneous Improvements 2015 Construction Project Review (Project Committee 15)

DISCUSSION:

Ms. Young reviewed the progress for the Miscellaneous Improvements 2015 project. The project is expected to be completed in March, 2017.

Ms. Young presented one change order to the Pascal & Ludwig contract. Change Order No. 5 involved modifications to the sodium hypochlorite tank overflow and venting systems as recommended by the chemical delivery company and SOCWA's safety officer. The

improvement was recommended by SOCWA's safety officer. The cost of Change Order No.5 is \$8,133.00.

ACTION TAKEN:

The present Project Committee No. 15 members recommended Change Order 5 to the construction contract with Pascal & Ludwig for the Coastal Treatment Plant Miscellaneous Improvements 2015 Project for action by the Board of Directors. The Moulton Niguel Water District representative had no comment on the item as it is solely funded by the South Coast Water District.

Regional Treatment Plant Switchgear and Cogeneration Upgrade Construction Project Update (Project Committee 17)

DISCUSSION:

Mr. Peck reviewed the discussion from the January, 2017, Engineering Committee regarding the Butier Engineering construction management contract. The Butier contract had only lasted until October, 2016. Butier had insisted that any contract extension be based on a full-time inspector. SOCWA staff and the Engineering Committee agreed that this did not appear merited for the remaining work. It was determined that SOCWA would obtain additional proposals for construction management services for the remainder of the Switchgear and Cogeneration Project. A proposal was received from Carollo Engineers. Butier also modified their proposal based on a half-time inspector. Mr. Peck reviewed the Carollo and Butier proposals. The Engineering Committee determined that extension of the Butier contract was the most efficient approach for the remaining six months of the project.

ACTION TAKEN:

The present Project Committee No. 17 members recommended Change Order No. 2 to the construction management contract with Butier Engineering for the Regional Treatment Plant Switchgear and Cogeneration Project for action by the Board of Directors.

J. B. Latham Treatment Plant Facility Improvements Packages A/C Construction Project Review (Project Committee 2)

DISCUSSION:

Mr. Peck indicated that Gateway Pacific is currently working on the control and power components for the new co-generation system. Project completion is expected in March, 2017.

Mr. Peck presented two change orders to the Gateway Pacific contract. Change Order No. 37 involved adding overhead conduit and wire to the Plant 1 secondary drive motors. The existing wire and conduit were found to be unusable. The cost of Change Order No.37 is \$12,949.66. Change Order No. 38 involves the installation of an underground pullbox at the site of the original Plant 2 switchgear. SOCWA staff requested the addition of the new pullbox to allow future use of the original conduits to the Plant 2 Blower Building. The cost of Change Order No.38 is \$7,639.78.

ACTION TAKEN:

The present Project Committee No. 2 members recommended Change Orders Nos. 37 and 38 to the construction contract with Gateway Pacific for the J.B. Latham Treatment Plant Facility Improvements Packages A/C Project for action by the Board of Directors.

J. B. Latham Treatment Plant Facility Improvements Package B Evaluation Review (Project Committee 2)

DISCUSSION:

Mr. Peck presented the current estimated costs for both the current and the reduced capacity scenarios. Mr. Peck noted that he believed that the costs related to the condition assessment of the process basins were still too high. A meeting has been scheduled with Carollo Engineers for February 14 to review this issue. Mr. Peck indicated that a separate

meeting would be set up to review Package B in more detail with the Project Committee 2 staff members.

ACTION TAKEN:

No action necessary at this time.

J. B. Latham Treatment Plant Centrifuge Controls Upgrade Project Review (Project Committee 2)

DISCUSSION:

Mr. Peck reviewed a proposed project to upgrade the centrifuge control systems at the J. B. Latham Treatment Plant. The controls for the dewatering system date to 2003. Both the variable frequency drives and the programmable logic controllers have reached the end of their useful lives. The SOCWA Operations Department sought proposals from Andritz to provide the components and the programming for the Latham centrifuges. The work on the control system is sole source due to the programming of the units as an Andritz product. The Andritz pricing for the control system was compared with prior Andritz projects (including the 2011 upgrade to the four D5L centrifuges at the Regional Treatment Plant). The Andritz proposal was found to be in line with pricing on other projects. Discussion ensued.

ACTION TAKEN:

The present Project Committee No. 2 members recommended the Andritz proposal for the J. B. Latham Treatment Plant Centrifuge Controls Upgrade for action by the Board of Directors.

J. B. Latham Treatment Plant Capital Improvement Budget '17/'18 Review (Project Committee 2)

DISCUSSION:

Mr. Peck reviewed the anticipated capital improvement budget for the Latham Plant in Fiscal Year '17/'18. Mr. Peck noted that the project included approximately \$3 million for the design of the Package B project. The other significant budget items relate to the construction the Miscellaneous Improvements 2017 project. This work is currently under design by Hazen and Sawyer.

ACTION TAKEN:

Project Committee 2 Engineering Committee staff members were asked to provide any comments regarding the proposed additions to budget by the March Engineering Committee meeting.

Adjournment

There being no further business, Mr. Peck adjourned the meeting at 10:14 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 February 9, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

Agenda Item

Legal Counsel Review: N/A

Meeting Date: April 6, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: New Employee Announcement
Financial Matters – For Month of and Year-to-Date February 28, 2017

Summary/Discussion

New Employee Announcement

Kevin Zabat, CPA, has joined SOCWA's Finance Team as Senior Accountant.

Financial Matters

The following selected financial reports are routinely provided monthly to the Board of Directors. This information is presented, including the Monthly Financial Report, to the Finance Committee and could include a request for the Board to approve recommendations of the Finance Committee. The reports included are as follows:

Summary of Disbursements

- For Month of February 2017 (Exhibit A)

Schedule of Funds Available for Reinvestment (Exhibit B)

Schedule of Cash and Investments (Exhibit C)

Capital Schedule (Exhibit D)

- Capital Projects – Graph (Exhibit D-1)

Budget vs. Actual Expenses:

- Operations and Environmental Summary (Exhibit E-1)
- Residual Engineering, after transfer to Capital (Exhibit E-2)
- Administration (Exhibit E-3)
- Information Technology (IT) (Exhibit E-4)

Fiscal impact

During the month of February 2017, disbursements totaled \$1,206,122 and are summarized by Project Committee in the attached Exhibit A.

The attached Exhibits B, C, D and G are informational reports only.

Recommendation

Staff recommends the Board of Directors:

Ratify the Summary of Disbursements for the period from February 1, 2017 through February 28, 2017 (attached as Exhibit A).

Receive and file the following as information items:

- Schedule of Funds Available for Reinvestment (Exhibit B)
- Schedule of Cash and Investments (Exhibit C)

- Capital Schedule (Exhibit D)
- Capital Projects Graph (Exhibit D-1)
- Budget vs. Actual Expenses:
 - a. Operations and Environmental Summary (Exhibit E-1)
 - b. Residual Engineering, after transfer to Capital (Exhibit E-2)
 - c. Administration and Other Consolidated Expenses (Exhibit E-3)
 - d. Information Technology (IT) (Exhibit E-4)

attachment – New Employee Announcement



Memorandum

DATE: April 6, 2017
TO: SOCWA Employees, Board of Directors and Member Agencies
FROM: Mary Carey, Finance Controller
SUBJECT: New Employee Announcement

Kevin Zabat, CPA, is joining SOCWA to fill our open position in Accounting/Finance, Senior Accountant.

His first day was Tuesday, February, 21, 2017.

Kevin has a Bachelor of Science degree in Business Administration with an emphasis in Accounting from California Polytechnic University.

He has a solid background in all areas of accounting, cash management, ADP payroll, financial reporting, month end closing and audit.

He has worked as an auditor for a CPA firm and held accounting positions for Volt Information Services, Vantage Oncology, Cingular Staffing and Ebisu Corp.

We are delighted to welcome Kevin to the SOCWA team.

He will work closely with me on the Annual Budget, USE Audit reporting, financial reporting, annual financial audit, invoicing, ADP payroll and various other tasks.

Thanks for joining me in welcoming Kevin to the team.

Exhibit A

South Orange County Wastewater Authority
Summary of Disbursements for Month of February 2017
Staff Recommendation of Fiscal Matters

	Actual
General Fund	(\$449,362)
PC 2 - Jay B. Latham Plant	(338,614)
PC 3 - SOCWA Plant/PCA AWT	(21)
PC 5 - San Juan Creek Ocean Outfall	(14,332)
PC 8 - Pretreatment Program	(8,472)
PC 12 SO - Water Reclamation Permits	(4,739)
PC 15 - Coastal Treatment Plant/AWT	(128,043)
PC 17 - Joint Regional Wastewater Reclamation	(249,686)
PC 21 - Effluent Transmission Main	(608)
PC 24 - Aliso Creek Ocean Outfall	(12,244)
Total	(\$1,206,122)

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT**

as of February 28, 2017

CASH IN BANK: (BEGINNING BAL.)	\$	5,356,547
L.A.I.F. FUNDS: (BEGINNING BAL.)		7,524,821
DEPOSITS, TRANSFERS & ADJUSTMENTS:		2,743,559
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION		<u>(1,206,122)</u>
		<u><u>\$ 14,418,804</u></u>

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.

South Orange County Wastewater Authority
Schedule of Cash and Investments
as of February 28, 2017

MVA	\$ 36,031	(A)
A/P Checking	1,861,250	(B)
Payroll Checking	258,703	(C)
State LAIF	12,262,821	(D)
Total Cash in Bank	14,418,804	
Petty Cash	1,600	(E)
Total Operating Cash	14,420,404	
OPEB Trust	3,880,467	(F)
Total Cash and Investments	\$ 18,300,871	

- Notes:
- (A) Interest bearing account; all cash receipts are deposited in this account.
 - (B) Accounts Payable Checks are drawn against this account; money is transferred to this account from the MVA account or LAIF.
 - (C) Payroll including payroll taxes and related liabilities are drawn against this account; money is transferred to this account from MVA account or LAIF.
 - (D) 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.

Work is underway on Cash by Member Agency, Project Committee and Capital Project.

**South Orange County Wastewater Authority
Capital Projects Summaries
as of
February 28, 2017**

FY 2016-17 Budget vs. Actual Spending						
<u>Description</u>	Capital Budget	Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collected
PC 2-JB Latham	5,211,980	1,479,939	3,732,041	28.4%	4,194,380	4,194,380
PC 3A	-	360,761	(360,761)		-	-
PC 5-San Juan Creek Outfall	414,437	19,380	395,057	4.7%	138,974	138,974
PC 15-Coastal	3,149,813	884,631	2,265,182	28.1%	1,965,393	1,444,145
PC 17-Regional	7,551,483	2,520,695	5,030,788	33.4%	5,605,862	5,605,862
PC 21 Effluent Transmission	159,719	279	159,440	0.2%	55,347	55,347
PC 24 Aliso Creek Outfall	-	472	(472)		-	-
Total Large Capital	16,487,432	5,266,157	11,221,275	31.9%	11,959,956	11,438,708
Non-Capital Engineering	891,500	185,457	706,043	20.8%	717,451	717,451
Small Internal Capital	1,254,100	657,058	597,042	52.4%	940,575	940,575
Total Capital	18,633,032	6,108,673	12,524,359	32.8%	13,617,982	13,096,734

(1)

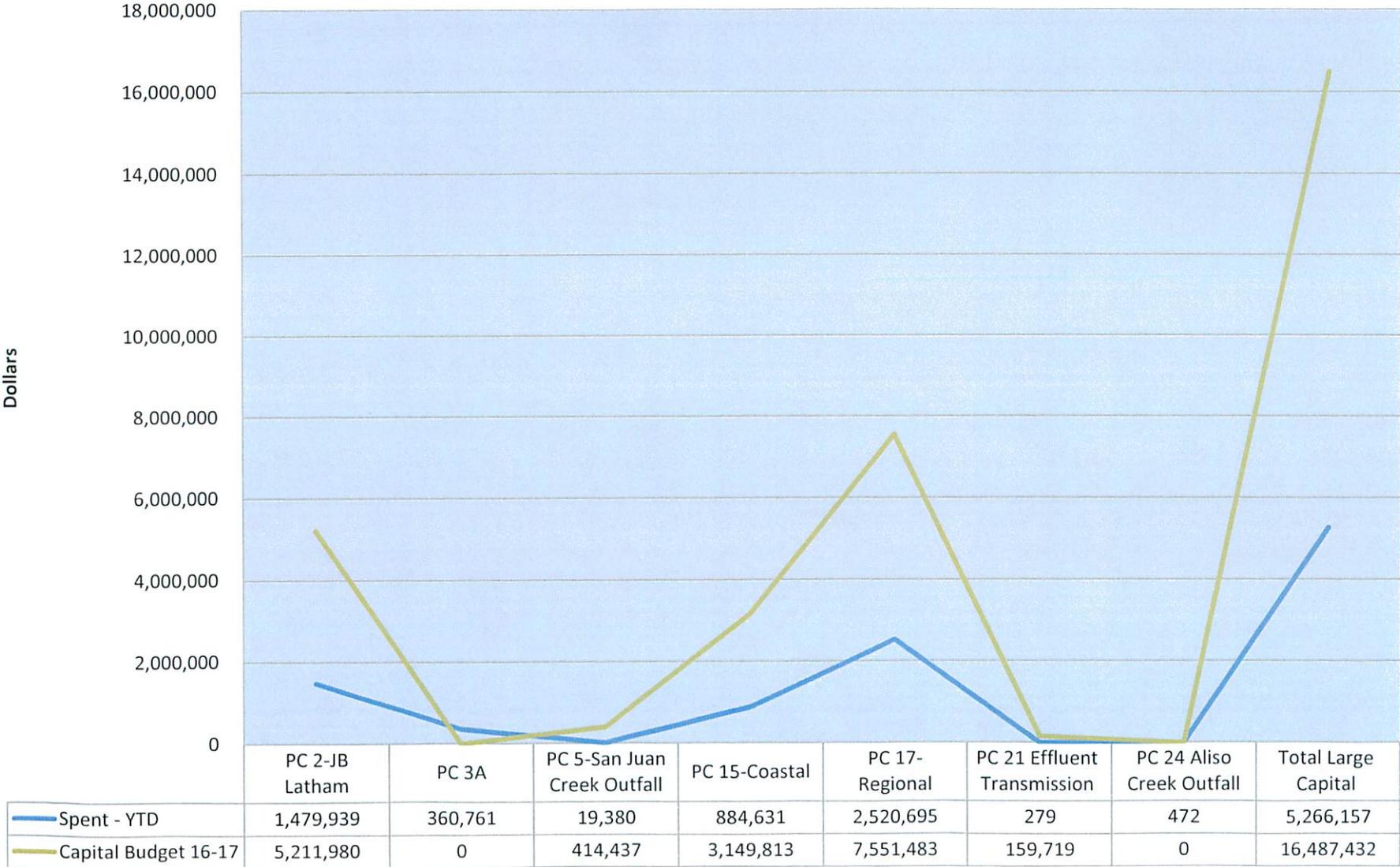
(2)

(1) Expenditures included in prior year, 2015-16 budget.

(2) MNWD Q1, Q2 and Q3 PC 15 billings are still outstanding, \$521,248.

Work is underway on Cash by Member Agency, Project Committee and Capital Project.

Large Capital Projects Exhibit D-1 Budget vs. Actual Year-to-Date 02/28/2017



South Orange County Wastewater Authority
O & M & Environmental, Safety Costs Summary
Year-to-Date as of February 28, 2017

Exhibit E-1

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe						
5000--**	Regular Salaries-O&M	4,249,384	2,652,397	1,596,987	62.4%	
5001--**	Overtime Salaries-O&M	79,080	106,727	(27,647)	133.7%	(1)
5306--**	Scheduled Holiday Work	50,700	20,960	29,740	38.0%	
5401--**	Fringe Benefits IN to PC's & Depts.	3,017,080	1,883,202	1,133,878	62.4%	
5700--**	Standby Pay	137,588	46,020	91,568	32.8%	
	Total Payroll Costs	7,533,832	4,709,305	2,824,527	62.5%	
Other Expenses						
5002--**	Electricity	1,809,012	903,672	905,340	50.0%	
5003--**	Natural Gas	167,304	102,678	64,626	61.4%	
5004--**	Potable & Reclaimed Water	59,208	38,247	20,961	64.6%	
5005--**	Co-generation Power Credit	(450,004)	(201,611)	(248,393)	44.8%	
5006--**	Chlorine/Sodium Hypochlorite	542,404	270,464	271,940	49.9%	
5007--**	Polymer Products	646,504	319,418	327,086	49.4%	
5008--**	Ferric Chloride	251,800	174,221	77,579	69.2%	
5009--**	Odor Control Chemicals	167,404	100,030	67,374	59.8%	
5010--**	Other Chemicals - Misc.	5,000	-	5,000	0.0%	
5011--**	Laboratory Services	35,700	28,000	7,700	78.4%	
5012--**	Grit Hauling - 21A	113,200	72,944	40,256	64.4%	
5013--**	Landscaping	160,000	162,912	(2,912)	101.8%	(2)
5014--**	Engineering - Misc.	335,000	113,497	221,503	33.9%	
5015--**	Management Support Services	294,024	68,699	225,325	23.4%	
5016--**	Audit - Environmental	500	-	500	0.0%	
5017--**	Legal Fees	88,004	12,545	75,459	14.3%	
5018--**	Public Notices/ Public Relations	500	145	355	29.0%	
5019--**	Contract Services Misc. - 29	270,408	147,401	123,007	54.5%	
5021--**	Small Vehicle Expense - 31A	19,444	21,100	(1,656)	108.5%	(3)
5022--**	Miscellaneous Expense	16,804	5,774	11,031	33.2%	
5023--**	Office Supplies - All	33,604	25,585	8,019	76.1%	(4)
5024--**	Petroleum Products	58,400	20,098	38,302	34.4%	
5025--**	Uniforms	34,408	26,284	8,124	76.4%	(5)
5026--**	Small Vehicle Fuel - 37A	33,704	8,795	24,909	26.1%	
5027--**	Insurance - Property/Liability	110,188	159,465	(49,277)	144.2%	
5028--**	Small Tools & Supplies	63,128	45,417	17,712	71.9%	
5030--**	Trash Disposal	4,808	2,465	2,343	51.3%	
5031--**	Safety Supplies	91,500	74,904	16,596	80.6%	(6)
5032--**	Equipment Rental	7,204	40	7,164	0.6%	
5033--**	Recruitment	0	707	(707)	0.0%	
5034--**	Travel Expense/Tech. Conferences	40,016	8,289	31,727	20.7%	
5035--**	Training Expense	62,496	25,078	37,418	40.1%	
5036--**	Laboratory Supplies	75,508	48,609	26,899	64.4%	
5037--**	Office Equipment	21,404	11,477	9,927	53.6%	
5038--**	Permits	488,020	447,559	40,461	91.7%	
5039--**	Membership Dues/Fees	12,012	5,640	6,372	47.0%	
5040--**	Natural Gas - 11-EPS - PC 5	396	-	396	0.0%	
5041--**	Electricity - 10-EPS - PC 5	31,500	14,770	16,730	46.9%	
5042--**	Contract Services - 29-EPS - PC 5	4,104	-	4,104	0.0%	
5044--**	Offshore Monitoring - 20A	40,008	16,856	23,152	42.1%	
5045--**	Offshore Biochemistry - 20B	0	11	(11)	0.0%	
5046--**	Effluent Chemistry - 20C	52,004	25,196	26,808	48.4%	
5047--**	Access Road Expenses	45,400	9,287	36,113	20.5%	
5048--**	Storm Damage	18,600	2,605	15,995	14.0%	
5049--**	Biosolids Disposal - 21B	1,524,604	872,976	651,628	57.3%	
5050--**	Contract Services Generators - 29A	19,704	17,942	1,762	91.1%	(7)
5052--**	Janitorial Services	50,008	18,207	31,801	36.4%	

South Orange County Wastewater Authority
O & M & Environmental, Safety Costs Summary
Year-to-Date as of February 28, 2017

Exhibit E-1

	FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended	
5053--**-**	0	-	-	0.0%	
5054--**-**	29,512	18,759	10,753	63.6%	(8)
5055--**-**	12,200	3,632	8,568	29.8%	
5056--**-**	311,500	201,191	110,309	64.6%	
5057--**-**	530,400	365,518	164,882	68.9%	(9)
5058--**-**	60,300	60,112	188	99.7%	(10)
5059--**-**	158,500	48,952	109,548	30.9%	
5060--**-**	57,600	52,680	4,920	91.5%	(11)
5061--**-**	4,952	3,591	1,361	72.5%	
5067--**-**	0	-	-	0.0%	
5068--**-**	23,996	14,898	9,098	62.1%	
5069--**-**	65,004	3,945	61,059	6.1%	
5077--**-**	150,004	77,403	72,601	51.6%	(12)
17-5101-01-00-00	0	625	(625)	0.0%	
5105--**-**	450,004	201,611	248,393	44.8%	
02-5301-01-00-00	\$0.00	451	(451)	0.0%	
17-5302-01-03-00	0	2,600	(2,600)	0.0%	
5303--**-**	0	4,945	(4,945)	0.0%	
5305--**-**	0	9,788	(9,788)	0.0%	
5309--**-**	7,004	3,385	3,619	48.3%	
5705--**-**	37,320	21,797	15,523	58.3%	
5802--**-**	0	480	(480)	0.0%	
6500--**-**	577,252	322,758	254,494	52.3%	
Total Other Expenses	9,930,492	5,647,519	4,282,973	55.0%	
Total Expenses	17,464,324	10,356,824	7,107,500	59.3%	

- (1) New Equipment Startup and Troubleshooting Issues and odor complaint investigations
- (2) Completed carryover work from FY15-16. Expenses will level off for the rest of the year.
- (3) Completed annual services for fleet. Expenses will level off for the rest of the year.
- (4) Office supplies restocked at the beginning of the year. Expenses will level off for the rest of the year.
- (5) New employee equipment purchases.
- (6) Employee boots and online training for the year is completed and expenses will be lower for the remainder of the year
- (7) Most work is done at the beginning of the fiscal year. Expenses will be minimal for the rest of the year.
- (8) Completed annual services and repairs.
- (9) Staff completed a number of repairs to prepare for the winter projected higher flows expected.
- (10) Several air conditioner units failed and were replaced.
- (11) Equipment ordered for winter maintenance projects.
- (12) This includes \$68,000 carryover for PC-15 from FY15-16 for SCADA server replacement project.

**South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering
For the Period Ended February 28, 2017**

Exhibit E-2

		FY 2016-17 Original Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
-5000--***-00	Regular Salaries-O&M	103,896	78,230	25,666	75.3%
-5401--***-00	Fringe Benefits IN to PC's & Depts.	73,764	55,543	18,221	75.3%
	Total Payroll Costs	177,660	133,773	43,887	75.3%
Other Expenses					
01-5015-03-00-00	Management Support Services	39,996	0	39,996	
01-5022-03-00-00	Miscellaneous Expense	11,400	0	11,400	
01-5033-03-00-00	Recruitment	0	265	(265)	
01-5039-03-00-00	Membership Dues/Fees	1,200	629	571	52.4%
01-5061-03-00-00	Mileage	396	0	396	
01-5075-03-00-00	Recruitment	0	0	-	
01-5301-03-00-00	Vehicle Pay	5,820	2,859	2,961	49.1%
01-5302-03-00-00	Bonus	0	7,363	(7,363)	
01-5309-03-00-00	Operating Leases	15,000	10,889	4,111	72.6%
01-5802-03-00-00	Shipping/Freight	300	0	300	
01-6500-03-00-00	IT Allocations in to PC's & Depts.	44,028	16,390	27,638	
	Total Other Expenses	118,140	38,395	79,745	32.5%
	Total Expenses	295,800	172,168	123,632	58.2%

**South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration
For the Period Ended February 28, 2017**

Exhibit E-3

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5401-04-00-00	Fringe Benefits IN to PC's & Depts.	484,884	320,535	164,349	66.1%
01-6000-04-00-00	Regular Salaries-Admin & IT	682,932	451,458	231,474	66.1%
01-6001-04-00-00	Overtime Salaries-Admin & IT	19,308	14,117	5,191	73.1%
	Total Payroll Costs	1,187,124	786,110	401,014	66.2%
Other Expenses					
01-5018-04-00-00	Public Notices/ Public Relations	15,996	-	15,996	
01-5027-04-00-00	Insurance - Property/Liability	39,720	28	39,692	0.1%
01-5037-04-00-00	Office Equipment	8,004	-	8,004	
01-5302-04-00-00	Longevity Bonus	-	1,340	(1,340)	
01-6101-04-00-00	Recruitment & Employee Relations	12,000	32,313	(20,313)	269.3%
01-6102-04-00-00	Subscriptoins	996	772	224	77.5%
01-6200-04-00-00	Management Support Services	215,004	95,986	119,018	44.6%
01-6201-04-00-00	Audit	35,004	16,000	19,004	45.7%
01-6202-04-00-00	Legal	62,004	72,130	(10,126)	116.3%
01-6203-04-00-00	Outside Services	2,004	1,132	872	56.5%
01-6204-04-00-00	Postage	1,896	1,962	(66)	103.5%
01-6220-04-00-00	Board of Directors - Fees	-	-	-	
01-6223-04-00-00	Office Supplies - Admin	9,996	2,168	7,828	21.7%
01-6234-04-00-00	Memberships & Trainings	96,108	68,257	27,851	71.0%
01-6239-04-00-00	Travel & Conference	23,904	13,603	10,301	56.9%
01-6240-04-00-00	Scholarship Sponsorship	996	1,000	(4)	100.4%
01-6310-04-00-00	Miscellaneous	15,000	6,699	8,301	44.7%
01-6311-04-00-00	Mileage	708	710	(2)	100.3%
01-6313-04-00-00	Vehicle Pay Admin	12,000	8,169	3,831	68.1%
01-6317-04-00-00	Contract Services Misc	1,800	2,481	(681)	137.8%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	122,172	48,263	73,909	39.5%
01-6601-04-00-00	Shipping/Freight	-	1,207	(1,207)	#N/A
	Total Other Expenses	675,312	374,220	301,092	55.4%
	Total Expenses	1,862,436	1,160,331	702,105	62.3%

(1)

(1) Legal expenses related to Board Matters

**South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
For the Period Ended February 28, 2017**

Exhibit E-4

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended	
Salary & Fringe						
01-5401-05-00-00	Fringe Benefits IN to PC's & Depts.	52,572	11,608	40,964	22.1%	
01-6000-05-00-00	Regular Salaries-Admin & IT	74,052	16,349	57,703	22.1%	(1)
01-6001-05-00-00	Overtime Salaries-Admin & IT	2,004	118	1,886	5.9%	
	Total Salary & Fringe	<u>128,628</u>	<u>28,074</u>	<u>100,554</u>	<u>21.8%</u>	
Other Expenses						
01-5028-05-00-00	Small Tools & Supplies	504	-	504		
01-5037-05-00-00	Office Equipment	6,000	-	6,000		
01-5061-05-00-00	Mileage	348	-	348		
01-6102-05-00-00	Subscriptions	-	76	(76)		
01-6200-05-00-00	Management Support Services	-	41,070	(41,070)		(1)
01-6234-05-00-00	Memberships & Trainings	1,848	-	1,848		
01-6239-05-00-00	Travel & Conference	2,496	-	2,496		
01-6300-05-00-00	Software Maintenance Agreements	57,144	37,010	20,134	64.8%	
01-6301-05-00-00	Hardware Maintenance Agreements	12,912	12,269	643	95.0%	
01-6302-05-00-00	Cloud Subscriptions (Internet)	9,516	-	9,516		
01-6303-05-00-00	Telecommunications	109,020	85,180	23,840	78.1%	
01-6305-05-00-00	IT Professional Services	241,500	102,299	139,201	42.4%	
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	34,896	49,539	(14,643)	142.0%	
01-6307-05-00-00	Small Software Purchases & Licenses (<	48,540	-	48,540		
01-6309-05-00-00	Operating Leases	44,004	29,314	14,690	66.6%	
01-6310-05-00-00	Miscellaneous	996	380	616	38.1%	
01-6312-05-00-00	Computer & Photocopy Supplies	252	2,199	(1,947)	872.4%	
01-6601-05-00-00	Shipping/Freight	252	-	252		
	Total Other Expenses	<u>570,228</u>	<u>359,336</u>	<u>210,892</u>	<u>63.0%</u>	
	Total Expenses before Allocation	698,856	387,410	311,446	55.4%	
IT Allocations (Out) to PC's & Depts						
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(698,856)	(387,410)	(311,446)	55.4%	
		<u>(698,856)</u>	<u>(387,410)</u>	<u>(311,446)</u>	<u>55.4%</u>	
		(698,856)	(387,410)	(311,446)	55.4%	

(1) Contracted service.

Agenda Item

Meeting Date: April 6, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: February 2017 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

A six (6) 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, visitations 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) Beach Ocean Monitoring Report

4) Recycled Water Report

5) Pretreatment Report

Fiscal impact

No change

Recommendation

Receive and file the operational reports.

Monthly Operational Report

SOCWA Operational Report February, 2017

Excursion, Complaint, and Violation Events

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

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd)	2.82	8.06	7.37	1.03	19.28
Effluent (mgd)	3.09	6.21	7.37	1.41	18.08
Peak Flow (mgd)	3.81	20.64	13.31	5.13	42.89
Influent BOD (mg/l)	349	242	222	301	
Influent TSS (mg/l)	328	310	429	331	
Effluent BOD (mg/l)	7.8	5.8	7.5	7.4	
Effluent TSS (mg/l)	12.0	9.0	12.7	9.3	
Effluent Turbidity (NTU)	3.3	4.0	4.8	5.0	

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.12	1.85		1.96
Days of Operation (days)	5	23		
Total Flow (million gallons)	3.3	51.7		55.0
Plant Irrigation (million gallons)	0.10	0.00	0.24	
AWT Time Online (%)	100.0	76.9		

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 February, 2017 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		854.9	0.0	854.9
Nursery Products (tons)		221.3	569.6	791.0
Prima Deshecha (tons)		45.0	123.6	168.5
Other: _____ (tons)		0.0	0.0	0.0
Total Processed (tons)		1,121.2	693.2	1,814.4

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	173	527	593	1,293
Corrective Maintenance	54	178	123	355

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	2	2
Member Agency	0	0	0	0
Residents	0	0	0	0
Others	12	0	38	50
Tours #/Visitors	0	4/331	40	371

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	6.6	26.1	NA	32.7

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.1	NA	NA	0.1
Power (kWh)	205,498	205,498	479,484	890,480
Natural Gas (Dth)	422	NA	8,496	8,918
Digester Gas (scfm)		0(1)	0(1)	0
Digester Gas Power Savings		0(1)		

(1) The engines are off at both plants due to replacement projects.

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

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report February, 2017 (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	1.700	59.63%				1.70
EBSB	0.057	2.00%				0.06
SCWD	1.094	38.37%		1.851	25.20%	2.95
MNWD	0.000	0.00%	8.06	1.400	19.06%	9.46
CSJC				2.265	30.84%	2.27
SMWD				1.828	24.89%	1.83
Total	2.852	100.00%	8.06	7.344	100.00%	18.25

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.70	12.82%	1.70	
EBSB				0.06	0.43%	0.06	
SCWD	1.97	12.82%		1.31	9.86%	3.28	Includes Desalters
MNWD	1.40	9.12%		6.21	46.83%	7.61	
ETWD				3.84	28.95%	3.84	Direct Outfall Only
CSJC	2.59	16.86%				2.59	Includes Desalter
SMWD	6.30	41.01%				6.30	Includes Chiquita
CSC	3.10	20.19%				3.10	Direct Outfall Only
IRWD				0.15	1.11%	0.15	Direct Outfall Only
Total	15.35	100.00%	17.87	13.27	100.00%	28.62	

SOCWA Operational Report February, 2017 (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%	3.19	38.02%	2.265	30.84%	2.06	29.39%
MNWD	3.00	23.08%	1.40	16.69%	1.400	19.06%	1.42	20.38%
SCWD	3.75	28.85%	2.00	23.84%	1.851	25.20%	1.71	24.39%
SMWD	2.25	17.31%	1.80	21.45%	1.828	24.89%	1.81	25.84%
Total	13.00	100.00%	8.39	100.00%	7.344	100.00%	6.99	100.00%

Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	FY Avg to Date (lbs/d)	FY Avg to Date (%)
CSJC	11,572	30.00%	8,620	33.30%	6,524	25.15%	5,272	22.05%
MNWD	8,340	21.62%	5,270	20.36%	6,165	23.77%	5,945	24.87%
SCWD	7,715	20.00%	5,304	20.49%	5,202	20.05%	5,147	21.53%
SMWD	10,946	28.38%	6,695	25.86%	8,050	31.03%	7,543	31.55%
Total	38,573	100.00%	25,889	100.00%	25,941	100.00%	23,907	100.00%

Project Committee No. 5 - Effluent Pumping Station (SJCOO EPS)

Agency	Own (%)	Variable Budget (mgd)	Variable Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	Month EPS Outfall Flow (mgd)	Month EPS Outfall Flow (%)
CSC	16.62%	3.00	17.13%	3.10	20.19%		
CSJC	11.08%	3.83	21.87%	2.59	16.86%	2.27	30.84%
MNWD	15.51%	2.42	13.82%	1.40	9.12%	1.40	19.06%
SCWD	12.47%	2.67	15.25%	1.97	12.82%	1.85	25.20%
SMWD	44.32%	5.59	31.92%	6.30	41.01%	1.83	24.89%
Total	100.00%	17.51	100.00%	15.35	100.00%	7.34	100.00%

(1) Influent billing meter summary:

- a. CSJC is metered for two weeks of each month to determine the monthly flow.
The area velocity metering system in the collection system 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 is 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 for two weeks of each month to determine the monthly flow.
The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows. The area velocity metering system in the collection system has an accuracy of +/- 20%.
- Source: Cost Allocation Methodology for Project Committees, Dudek Engineering 2012.

SOCWA Operational Report February, 2017 (cont'd)

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

Project Committee No. 5 - Outfall (SJCOO)

Agency	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)	FY Avg EPS Outfall Flow (mgd)	FY Avg EPS Outfall Flow (%)
CSC	2.353	20.79%		
CSJC	2.174	19.21%	2.06	29.39%
MNWD	1.418	12.53%	1.42	20.38%
SCWD	1.720	15.19%	1.71	24.39%
SMWD	3.655	32.29%	1.81	25.84%
Total	11.321	100.00%	6.99	100.00%

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%	1.960	60.61%	1.700	59.63%	1.710	58.39%
EBS	0.20	2.99%	0.061	1.89%	0.057	2.00%	0.051	1.76%
SCWD	2.00	29.85%	1.213	37.51%	1.094	38.37%	1.167	39.85%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	3.234	100.00%	2.852	100.00%	2.929	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	0.01408	0.167%	0.0000	0.0123	0.0123	0.15%	0.0119	0.15%
EBS	0.00044	0.005%	0.0000	0.0004	0.0004	0.01%	0.0004	0.00%
SCWD	0.00871	0.103%	0.0000	0.0079	0.0079	0.10%	0.0081	0.10%
ETWD	0.01719	0.204%	0.0000	0.0124	0.0124	0.15%	0.0139	0.18%
MNWD	8.40541	99.521%	8.0579	0.0570	8.1148	99.59%	7.9092	99.57%
Total	8.44583	100.000%	8.0579	0.0900	8.1478	100.00%	7.9436	100.00%

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

SOCWA Operational Report February, 2017 (cont'd)

FY Flow/Solids Summary (cont'd)

Project Committee No. 17 Solids (RTP)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Total Month (lbs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	4,728	12.95%	158,721	13.66%	148,495	12.52%
EBSD	295	0.59%	147	0.40%	5,320	0.46%	4,511	0.38%
SCWD	4,480	8.96%	2,926	8.02%	102,134	8.79%	100,987	8.52%
ETWD	10,200	20.41%	5,903	16.17%	160,221	13.79%	174,276	14.70%
MNWD	29,395	58.82%	22,801	62.46%	735,812	63.31%	757,396	63.88%
Total	49,975	100.00%	36,505	100.00%	1,162,209	100.00%	1,185,665	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%	1.49	13.32%	1.700	9.86%	1.710	16.03%
EBSD	0.780%	0.06	0.54%	0.057	0.33%	0.051	0.48%
ETWD	16.302%	2.89	25.83%	3.840	22.27%	2.642	24.76%
IRWD	15.760%	2.62	23.41%	4.123	23.91%	2.173	20.36%
MNWD	43.848%	2.96	26.45%	6.213	36.03%	3.294	30.87%
SCWD	12.310%	1.17	10.46%	1.308	7.59%	0.800	7.50%
Total	100.000%	11.19	100.00%	17.241	0.00%	10.671	100.00%

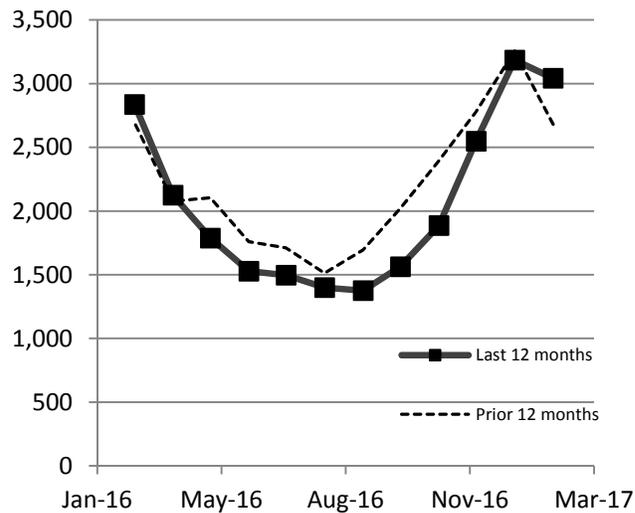
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report February, 2017

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.70	9.86%	1.70
EBSD			0.06	0.33%	0.06
SCWD	1.97	12.82%	1.31	7.59%	3.28
MNWD	1.40	9.12%	6.21	36.03%	7.61
ETWD			3.84	22.27%	3.84
CSJC	2.59	16.86%			2.59
SMWD	6.30	41.01%			6.30
CSC	3.10	20.19%			3.10
IRWD			4.12	23.91%	4.12
Total	15.35	100.00%	17.24	100.00%	32.60
or Acre-Feet per year equivalent					36,507

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

Feb-17	3,042
Jan-17	3,184
Dec-16	2,549
Nov-16	1,886
Oct-16	1,564
Sep-16	1,376
Aug-16	1,399
Jul-16	1,496
Jun-16	1,528
May-16	1,788
Apr-16	2,125
Mar-16	2,837
Total	24,775



Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

February 2017

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	MGD	inches
02/01/17	3.308	19.0	7.6	<0.1	3.553	14.0	6.1	<0.1	6.340	5.5	3.0	0.2	3.047	8.5	4.0	<0.1	0.428	0.328	0.002	12.942	
02/02/17	3.841	16.0	7.4	<0.1	3.701	12.2	4.2	<0.1	7.170	8.0	4.0	0.1	3.033	9.6	5.0	<0.1	0.428	0.329	0.002	13.906	0.01
02/03/17	2.958	16.0	7.8	<0.1	3.547	13.0	4.5	<0.1	4.600	5.4	3.0	0.1	3.033	11.4	8.0	<0.1	0.428	0.328	0.002	11.182	
02/04/17	3.695	21.0		0.1	3.297	12.6	3.9	<0.1	5.170				3.012				0.426	0.437	0.002	11.481	
02/05/17	2.822	17.0	8.8	<0.1	4.914	12.6	4.3	<0.1	4.860	5.2	4.0	<0.1	3.115	4.6	5.0		0.425	0.439	0.003	12.892	0.01
02/06/17	3.182	12.0	7.1	<0.1	4.021	11.8	4.2	<0.1	4.680	9.3	5.0	0.1	3.080	7.5	6.0	0.1	0.426	0.438	0.003	11.784	0.51
02/07/17	3.623	18.0	7.7	<0.1	3.953	22.8	4.4	<0.1	5.870	9.9	5.0	0.2	3.220	13.1	9.0	<0.1	0.425	0.387	0.007	13.050	0.32
02/08/17	3.176	20.0	8.7	<0.1	2.999	11.0	5.1	<0.1	6.770	6.4	3.0	<0.1	3.343	8.3	5.0	<0.1	0.427	0.371	0.003	13.115	0.02
02/09/17	4.205	22.0	7.9	<0.1	3.437	13.2	4.3	<0.1	5.510	7.7	3.0	0.2	3.185	8.3	7.0	<0.1	0.428	0.370	0.003	12.135	0.01
02/10/17	4.004	20.0	8.1	<0.1	3.929	13.4	6.1	<0.1	5.190	6.2	3.0	0.2	3.257	10.5	7.0	0.2	0.427	0.371	0.002	12.378	0.04
02/11/17	3.459	23.0		0.1	3.993	12.4	2.9	<0.1	4.880				3.093				0.426	0.405	0.002	11.968	0.11
02/12/17	3.454	29.0	9.8	<0.1	4.263	10.8	3.5	<0.1	5.090	4.9	3.0	<0.1	3.224	11.1	9.0		0.426	0.411	0.002	12.579	
02/13/17	2.571	24.0	10.0	<0.1	4.330	13.2	3.2	<0.1	5.090	7.9	3.0	0.1	3.162	11.0	5.0	0.2	0.426	0.411	0.006	12.588	
02/14/17	3.170	22.0	7.8	<0.1	3.036	14.0	5.6	<0.1	5.400	4.9	3.0	<0.1	3.076	22.6	12.0	<0.1	0.426	0.410	0.003	11.515	
02/15/17	3.797	21.0	9.0	<0.1	3.477	15.4	5.5	<0.1	5.410	4.3	2.0	0.1	3.106	11.7	8.0	0.1	0.426	0.411	0.002	11.995	0.01
02/16/17	3.344	20.0	6.7	<0.1	3.539	16.8	6.3	<0.1	8.390	28.6	25.0	<0.1	3.093	14.2	11.0	0.1	0.426	0.411	0.002	15.024	0.01
02/17/17	4.377	26.0	7.6	0.1	5.208	18.2	7.5	<0.1	7.550	5.6	5.0	0.2	3.062	13.3	8.0	<0.1	0.426	0.410	0.003	15.823	1.50
02/18/17	5.007	25.0		0.1	4.770	16.0	7.2	<0.1	6.870				3.600				0.427	0.141	0.003	15.243	0.07
02/19/17	3.409	25.0	6.3	0.1	4.382	15.0	4.4	<0.1	7.650	8.1	3.0	0.2	3.549	24.9	10.0		0.425	0.400	0.002	15.583	0.03
02/20/17	3.316	22.0	7.8	<0.1	3.083	13.2	5.0	<0.1	6.840	9.3	5.0	0.2	3.289	8.2	6.0	0.1	0.426	0.412	0.003	13.215	
02/21/17	3.247	21.0	8.0	<0.1	3.948	16.2	4.8	<0.1	6.870	27.6	20.0	0.5	3.238	9.4	6.0	0.1	0.426	0.410	0.005	14.061	
02/22/17	3.256	21.0	8.2	<0.1	3.792	15.2	6.0	<0.1	7.980	18.6	18.0	0.2	2.951	10.1	7.0	0.1	0.428	0.412	0.002	14.725	
02/23/17	3.318	18.0	5.8	<0.1	3.601	16.2	5.5	<0.1	7.970	6.4	3.0	0.1	3.186	14.5	8.0	0.1	0.426	0.410	0.101	14.858	
02/24/17	3.313	17.0	6.1	0.1	4.114	13.0	6.2	<0.1	6.890	7.1	4.0	0.2	2.370	10.7	7.0	0.1	0.426	0.401	0.094	13.468	
02/25/17	3.314	22.0		<0.1	3.828	12.4	8.1	<0.1	5.690				2.407				0.426	0.411	0.092	12.017	0.01
02/26/17	3.315	18.0	5.1	0.1	3.183	12.2	8.8	<0.1	6.040	6.7	5.0	<0.1	2.464	21.0	14.0		0.426	0.410	0.052	11.739	0.05
02/27/17	3.318	17.0	7.0	0.1	3.628	17.8	8.5	<0.1	6.400	6.5	3.0	0.1	2.645	13.2	9.0	0.1	0.426	0.410	0.134	12.807	0.27
02/28/17	3.314	18.0	5.2	0.1	4.006	11.2	5.3	<0.1	6.780	6.3	3.0	0.4	2.994	10.0	11.0	0.1	0.426	0.383	0.077	13.857	0.01
AVG	3.468	20.4	7.6	<0.1	3.840	14.1	5.4	<0.1	6.213	9.0	5.8	<0.2	3.066	12.0	7.8	<0.1	0.426	0.388	0.022	13.140	
TOTAL	97.11				107.53				173.95				85.83				11.94	10.87	0.614	367.93	2.99

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: February 2017
 REPORT DUE: April 1 2017
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High tide 651

Weather: Fog

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	02/08/17	1128	9	<20	<3	None	None	None	None	Green	58	Clear		
S4	02/08/17	1100	<20	9	<3	None	None	None	None	Green		Clear		
S5	02/08/17	1045	<20	20	2	None	None	None	None	Green		Clear		
S6	02/08/17	1030	<20	<20	5	None	None	None	None	Green		Slightly Turbid		
WEST	02/08/17	1015	<20	9	<3	None	None	None	None	Green		Slightly Turbid		
S7	02/08/17	1005	9	<20	5	None	None	None	None	Green	59	Slightly Turbid		
S8	02/08/17	950	100	40	50	None	None	None	None	Green		Turbid		
S9	02/08/17	945	130	30	60	None	None	None	None	Green		Turbid		50
ACM1	02/08/17	930	160	9	20	None	None	None	None	Green		Turbid	Flowing	
S10	02/08/17	905	110	30	<20	None	None	None	None	Green		Turbid		
S11	02/08/17	850	70	9	<20	None	None	None	None	Green		Slightly Turbid		
S12	02/08/17	830	40	9	80	None	None	None	None	Green	60	Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: February 2017
 REPORT DUE: April 1, 2017
 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: Clear
 COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	02/13/17	1015	<20	<20	3	None	None	None	None	Green	61	Slightly Turbid		
S4	02/13/17	1000	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S5	02/13/17	0940	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S6	02/13/17	0925	<20	<20	3	None	None	None	None	Green		Slightly Turbid		
WEST	02/13/17	0920	<20	20	<3	None	None	None	None	Green		Slightly Turbid		
S7	02/13/17	0915	<20	20	<3	None	None	None	None	Green		Slightly Turbid		
S8	02/13/17	0910	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S9	02/13/17	0900	40	20	7	None	None	None	None	Green		Turbid		100
ACM1	02/13/17	0905	80	20	10	None	None	None	None	Green	60	Turbid	Flowing	
S10	02/13/17	0850	20	<20	3	None	None	None	None	Green		Slightly Turbid		
S11	02/13/17	0845	20	10	5	None	None	None	None	Green		Slightly Turbid		
S12	02/13/17	0840	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: February 2017
 REPORT DUE: April 1, 2017
 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 0637

Weather: Clear

COMMENTS: S11 not accessible

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	02/23/17	807	40	<20	5	None	None	None	None	Green	58	Slightly Turbid		
S4	02/23/17	823	70	20	12	None	None	None	None	Green		Slightly Turbid		
S5	02/23/17	836	150	<20	7	None	None	None	None	Green		Slightly Turbid		
S6	02/23/17	849	20	20	8	None	None	None	None	Green		Slightly Turbid		
WEST	02/23/17	852	30	<20	3	None	None	None	None	Green	58	Slightly Turbid		
S7	02/23/17	853	40	<20	3	None	None	None	None	Green		Slightly Turbid		
S8	02/23/17	1020	50	<20	7	None	None	None	None	Green		Slightly Turbid		
S9	02/23/17	1009	160	50	20	None	None	None	None	Green		Slightly Turbid		
ACM1	02/23/17	1000	>=1,000	800	170	None	None	None	None	Green	58	Slightly Turbid	Flowing	
S10	02/23/17	917	20	<20	<3	None	None	None	None	Green		Slightly Turbid	Flowing	
S11	02/23/17	1220	20	20	<3	None	None	None	None	Green		Slightly Turbid		
S12	02/23/17	946	<20	<20	<3	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.

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

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



MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

REPORT FOR: February 2017

REPORT DUE: April 1, 2017

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 7:22

Sta No.	Sample Depth	Sample Date	Total Coliform	Fecal Coliform	Enterococcus	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600				
A-1	Surface	02/09/17	12	2	<2	803	0	0	
A-1	Mid depth	02/09/17	<10	<10	<10				
A-2	Surface	02/09/17	2	4	<2	750	0	0	
A-2	Mid depth	02/09/17	<10	<10	<10				
A-3	Surface	02/09/17	4	<2	<2	755	0	0	
A-3	Mid depth	02/09/17	<10	<10	<10				
A-4	Surface	02/09/17	12	2	<2	806	0	0	
A-4	Mid depth	02/09/17	<10	<10	10				
A-5	Surface	02/09/17	4	2	<2	759	0	0	
A-5	Mid depth	02/09/17	<10	<10	<10				
B-1	Surface	02/09/17	12	8	<2	742	0	0	
B-1	Mid depth	02/09/17	<10	<10	<10				
B-2	Surface	02/09/17	6	<2	<2	815	0	0	
B-2	Mid depth	02/09/17	<10	<10	<10				
N1	Surface	02/09/17	38	<2	10	830	0	0	
N2	Surface	02/09/17	32	10	2	828	0	0	
N3	Surface	02/09/17	34	4	<2	827	0	0	
N4	Surface	02/09/17	20	2	2	825	0	0	
N5	Surface	02/09/17	90	50	8	823	0	0	
N6	Surface	02/09/17	38	10	<2	821	0	0	
N7	Surface	02/09/17	8	2	<2	820	0	0	

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

**Compliance Summary Report
Aliso Creek Ocean Outfall 2017**

ACOO Permit Order No. R9-2012-0013

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
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There were no water quality violations during this reporting period.



**SOCWA and MEMBER AGENCY FACILITIES
ACOO Spill / Overflow Report Log - 2017
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	Regional Treatment Plant	60	Tertiary Effluent	Broken 3WHP 1" reclaimed water line due to a broken elbow. Spill was contained and pumped back to the plant.	None	N/A	1/11/2017
SOCWA	Regional Treatment Plant	124,320	Secondary Effluent	One of two applied reclaimed water effluent pumps failed. These pumps push water from the reclaimed water effluent pond to the reclaimed water reservoirs. The single pump could not keep up with the demand thus leading to a spill from the pond. All flows were diverted to the outfall while the applied pump was repaired. Sandbags were placed around the overflow in an effort to contain secondary water in the pond.	Sulphur Creek Aliso Creek Pacific Ocean	1/23/2017	1/22/2017

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

February 2017

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC	SCWD	SJCOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	Desalter FLOW MGD	Desalter FLOW MGD	FLOW MGD	Fall inches
02/01/17	7.730	11.1	6.3	0.1	2.770	12.4	9.0	<0.1	3.770	9.0	6.0	<0.1	1.445	3.0	4.0	<0.1	0.123	No Flow	17.160	
02/02/17	7.570	10.8	6.4	<0.1	2.940	11.8	8.0	<0.1	3.620	5.0	4.0	<0.1	1.655	4.0	6.0	<0.1	0.266	No Flow	16.480	0.01
02/03/17	7.250	8.7	7.8	0.1	2.720	8.6	6.0	<0.1	3.810	10.0	7.0	<0.1	1.793	5.0	5.0	<0.1	0.368	No Flow	17.130	
02/04/17	6.970				2.770				4.040				1.561				0.396	No Flow	16.380	
02/05/17	7.300	3.8	4.2		3.100				4.550				1.588				0.300	No Flow	17.370	0.01
02/06/17	7.190	10.2	6.2	0.2	2.820	10.4	8.0	<0.1	4.570	9.0	11.0	0.4	1.625	8.0	10.0	0.2	0.431	No Flow	17.540	0.51
02/07/17	8.040	9.4	4.8	<0.1	3.105	9.5	7.0	<0.1	4.570	5.0	12.0	0.3	1.702	1.0	10.0	0.2	0.435	0.340	18.510	0.32
02/08/17	7.790	9.6	4.8	0.1	3.390	11.6	8.0	<0.1	5.020	3.0	4.0	0.2	1.741	3.0	3.0	0.1	0.444	No Flow	19.060	0.02
02/09/17	7.220	9.5	6.6	0.1	3.138	9.1	7.0	<0.1	4.700	10.0	5.0	0.2	1.619	4.0	3.0	0.4	0.452	No Flow	17.730	0.01
02/10/17	6.950	13.9	8.6	0.1	2.680	4.9	4.0	<0.1	4.420	8.0	5.0	0.3	1.653	1.0	3.0	0.7	0.444	No Flow	17.520	0.04
02/11/17	6.810				3.003				3.950				1.556				0.224	No Flow	16.770	0.11
02/12/17	7.150	12.5	11.0		2.720				4.590				1.599				0.248	No Flow	17.530	
02/13/17	7.160	17.0	5.0	0.2	3.400	8.1	7.0	<0.1	4.660	8.0	10.0	0.1	1.673	5.0	9.0	<0.1	0.459	No Flow	18.100	
02/14/17	6.860	12.8	8.7	<0.1	3.100	7.8	5.0	<0.1	4.330	36.0	10.0	<0.1	1.658	7.0	9.0	<0.1	0.233	No Flow	17.600	
02/15/17	6.880	12.6	7.6	0.1	2.890	9.7	7.0	<0.1	4.270	10.0	6.0	0.1	1.617	4.0	4.0	0.7	No Flow	No Flow	17.070	0.01
02/16/17	6.930	11.0	11.5	0.1	2.686	10.6	8.0	<0.1	4.320	7.0	5.0	0.1	1.549	2.0	4.0	<0.1	No Flow	0.057	16.760	0.01
02/17/17	6.310	11.2	6.8	0.1	2.800	8.5	6.0	<0.1	4.310	6.0	7.0	<0.1	1.604	2.0	4.0	<0.1	0.038	No Flow	16.410	1.50
02/18/17	9.220				4.390				5.200				2.100				0.331	No Flow	22.080	0.07
02/19/17	8.040	11.3	12.4		4.230				4.410				1.799				0.451	No Flow	19.290	0.03
02/20/17	7.500	12.4	10.6	0.1	3.400	14.0	10.0	<0.1	4.520	12.0	13.0	0.1	1.406	6.0	11.0	0.1	0.453	No Flow	18.520	
02/21/17	7.810	27.6	9.6	0.1	3.600	7.2	6.0	<0.1	5.240	9.0	11.0	1.5	1.491	6.0	10.0	<0.1	0.454	0.841	19.270	
02/22/17	6.930	22.0	7.6	0.2	3.230	11.9	8.0	<0.1	4.640	10.0	6.0	1.5	1.666	4.0	4.0	0.1	0.488	0.958	18.380	
02/23/17	6.660	12.3	5.6	0.2	2.830	23.2	12.0	<0.1	4.330	11.0	7.0	0.1	1.595	6.0	4.0	<0.1	0.494	0.388	18.340	
02/24/17	6.550	10.4	7.1	0.1	3.050	12.9	9.0	<0.1	4.190	8.0	6.0	0.7	1.583	5.0	4.0	<0.1	0.479	0.168	17.790	
02/25/17	6.460				2.840				4.300				1.561				0.475	0.168	17.240	0.01
02/26/17	6.570	10.8	8.6		2.870				4.610				1.635				0.024	0.168	17.580	0.05
02/27/17	6.660	10.6	6.4	<0.1	3.120	11.5	8.0	<0.1	5.140	20.0	11.0	0.3	1.641	7.0	9.0	<0.1	0.419	0.168	17.810	0.27
02/28/17	7.110	6.9	5.7	0.1	3.230	10.3	7.0	<0.1	5.040	7.0	12.0	0.2	1.670	4.0	10.0	0.1	0.146	0.021	19.070	0.01
AVG	7.201	12.0	7.5	<0.1	3.101	10.7	7.5	<0.1	4.469	10.2	7.9	<0.3	1.635	4.4	6.3	<0.2	0.324	0.117	17.875	
TOTAL	201.620				86.822				125.120				45.785				9.075	3.277	500.490	2.99

REPORT FOR: February 2017
 REPORT DUE: April 1, 2017
 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 6:36

Weather: Fog

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	02/08/17	840	460	20	480	None	None	None	None	Brown	60	Turbid		25
S1	02/08/17	845	380	110	420	None	None	None	None	Brown		Turbid		
S2	02/08/17	810	760	310	360	None	None	None	None	Brown		Turbid		
DSB5	02/08/17	755	>=1,600	1,000	1,500	None	None	None	None	Brown		Turbid	Flowing	100
S3	02/08/17	855	480	140	420	None	None	None	None	Brown		Turbid		
DSB4	02/08/17	900	380	220	400	None	None	None	None	Brown		Turbid		
S5	02/08/17	910	310	20	140	None	None	None	None	Brown		Turbid		
DSB1	02/08/17	920	180	50	70	None	None	None	None	Brown	61	Turbid		
SJC1	02/08/17	830	1,900	1,100	1,200	None	None	None	None	Brown		Turbid	Flowing	100

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.

REPORT FOR: February 2017
 REPORT DUE: April 1, 2017
 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 637

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	02/16/17	835	40	40	9	None	None	None	None	Green		Turbid		
S1	02/16/17	845	40	<40	10	None	None	None	None	Green		Turbid		
S2	02/16/17	825	540	240	110	None	None	None	None	Green	56	Turbid		
DSB5	02/16/17	810	70	20	94	None	None	None	None	Green		Turbid		
S3	02/16/17	900	20	<40	2	None	None	None	None	Green		Turbid		
DSB4	02/16/17	849	<40	<40	5	None	None	None	None	Green	57	Turbid		
S5	02/16/17	915	<40	<40	<4	None	None	None	None	Green		Turbid		
DSB1	02/16/17	925	<40	20	<4	None	None	None	None	Green		Turbid		25
C1	02/16/17	840	<200	<200	120	None	None	None	None	Green	58	Turbid	Flowing	

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: February 2017
 REPORT DUE: April 1, 2017
 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 728

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	02/22/17	920	980	1,100	1,200	None	None	None	None	Brown	56	Turbid		
S1	02/22/17	852	680	880	210	None	None	None	None	Brown		Turbid		
S2	02/22/17	940	540	400	190	None	None	None	None	Brown		Turbid		
DSB5	02/22/17	950	1,600	1,400	300	None	None	None	None	Brown		Turbid	Flowing	
S3	02/22/17	850	680	640	210	None	None	None	None	Brown		Turbid		
DSB4	02/22/17	844	500	660	210	None	None	None	None	Brown	57	Turbid		
S5	02/22/17	830	300	460	68	None	None	None	None	Brown	58	Turbid		
DSB1	02/22/17	820	300	200	84	None	None	None	None	Brown		Turbid		
C1	02/22/17	910	2,300	2,000	1,000	None	None	None	None	Brown		Turbid	Flowing	

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

San Juan Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

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

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



MONITORING REPORT

Offshore

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

REPORT FOR: February 2017

REPORT FREQUENCY: Monthly

REPORT DUE: April 1, 2017

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 7:22

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	
A-1	Surface	02/09/17	18	<2	10	930	0	0	0 - None
A-1	Mid depth	02/09/17	<10	10	<10				1 - Mild
A-2	Surface	02/09/17	14	4	<2	935	0	0	2 - Moderate
A-2	Mid depth	02/09/17	30	<10	10				3 - Severe
A-3	Surface	02/09/17	<2	2	2	940	0	0	
A-3	Mid depth	02/09/17	10	20	<10				
A-4	Surface	02/09/17	2	<2	<2	947	0	0	
A-4	Mid depth	02/09/17	20	<10	<10				
A-5	Surface	02/09/17	8	2	<2	943	0	0	
A-5	Mid depth	02/09/17	150	50	20				
B-1	Surface	02/09/17	<2	<2	<2	924	0	0	
B-1	Mid depth	02/09/17	<10	<10	<10				
B-2	Surface	02/09/17	4	2	<2	958	0	0	
B-2	Mid depth	02/09/17	<10	<10	<10				
N1	Surface	02/09/17	8	6	6	920	0	0	
N2	Surface	02/09/17	8	<2	<2	916	0	0	
N3	Surface	02/09/17	14	4	4	913	0	0	
N4	Surface	02/09/17	80	70	58	909	0	0	
N5	Surface	02/09/17	<2	6	<2	905	0	0	
N6	Surface	02/09/17	<2	<2	<2	900	0	0	

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

**Compliance Summary Report
San Juan Creek Ocean Outfall 2017**

SJCOO Permit Order No. R9-2012-0012							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
SOCWA - JBL Plant	1/23/2017	Total Suspended Solids	Removal Efficiency	%	85%	77%	\$3,000



**SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2017
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
SOCWA	JB Latham Plant	100	Primary	High flows experienced at the plant.	N/A	N/A	01-22-17

Recycled Water Report

**Compliance Summary Report
Recycled Water Permit
2017**

Waste Discharge Requirement Order 97 - 52							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SCWD-CTP	1/4/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	1/4/2017	TDS	12-month	mg/L	1,000	1026	
SOCWA - RTP	1/4/2007	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	1/31/2017	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	2/14/2017	TDS	12-month	mg/L	1,000	1101	
SOCWA - RTP	2/14/2017	TDS	Daily	mg/L	1,100	1101	
SOCWA - RTP	2/14/2017	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	2/28/2006	Manganese	12-Month	mg/L	0.05	0.06	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Feb 28, 2017

Constituent	Units	12-month Avg Maximum Permit Limit	IRWD-LAWRP 12-month Average *	ETWD-WRP 12-month Average **	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	803	916	990	918	890	972	983	1,026	868
Chloride	mg/L	375	162	192	252	194	201	277	218	232	250
Sulfate	mg/L	400	233	233	271	297	267	235	290	300	240
Sodium	mg/L	None	154	160	200	163	160	217	180	170	180
Alkalinity	mg/L	None	-	-	-	-	-	-		264	188
Adjusted SAR	Ratio	None	4.93	-	5.47	4.71	4.56	6.03	5.13	4.35	4.94
Iron	mg/L	0.3	0.017	0.012	0.040	0.267	0.123	0.152	0.14	0.240	0.140
Manganese	mg/L	0.05	0.019	0.002	0.015	0.022	0.032	0.025	0.055	0.058	0.044
MBAS	mg/L	0.5	0.07	0.02	0.06	0.40	0.40	0.24	0.40	0.10	0.10
Boron	mg/L	0.75	0.35	0.287	0.349	0.300	0.323	0.387	0.30	0.320	0.29
Fluoride	mg/L	None	0.63	1.750	0.27	0.910	1.01	1.42	0.97	0.91	0.69
Total Organic Carbon	mg/L	None	9.1	-	8.4	9.0	10.4	9.1	11.3	12.0	10.0

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

TDS 1000 mg/L
Chloride 180 mg/L
Sulfate 340 mg/L

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

TDS 910 mg/L

*** 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) - 2017

Agency	Facility or Region	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Annual Totals
CSJC ¹	3-A Plant/MNWD	0.00	0.91											0.91
CSJC ²	Chiquita/SMWD	0.30	0.02											0.32
CSJC ³	Non-Domestic Well	3.18	4.44											7.62
ETWD	Region 8	27.67	21.00											48.67
IRWD														
⁴	IRWD - 8	2.71	3.65											6.36
⁴	IRWD - 9	1.11	4.97											6.08
SCWD	SOCWA CTP	3.32	10.16											13.48
MNWD	JRP	153.48	158.57											312.05
	3-A Plant	0.00	0.00											0.00
⁵	CTP	-1.25	4.36											3.12
SMWD	Oso Creek	151.60	141.02											292.62
	Chiquita	197.02	95.04											292.06
	Nichols	1.73	1.53											3.26
TCWD	RRWRP	52.88	36.21											89.09
TOTALS		594.70	476.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1071.29

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

Legal Counsel Review: N/A

Meeting Date: April 6, 2017

TO: SOCWA Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report, February 2017 and March 2017
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 Staff received notice via email on March 6, 2017 of an upcoming Pretreatment Compliance Inspection (PCI) of SOCWA's pretreatment program by contractors on behalf of the U.S. EPA. The PCI is scheduled for Thursday, March 23, 2017, beginning at approximately 8:00 am at 34156 Del Obispo St., Dana Point, CA 92629. The following documents may be reviewed during the PCI: Sewer Use Ordinances, Local Limits, Enforcement Response Plan, NPDES permits, most recent Pretreatment Program Annual Report (provided to inspectors on March 13, 2017), response SOCWA's most recent PCI/PCA (provided to inspectors on March 13, 2017), any recent SNC publication, multi-jurisdictional agreements, and Significant Industrial User files. In addition, it will be at the discretion of the inspectors which facilities to inspect if any.

In regards to the pending Dental Amalgam Rule, SOCWA Staff has been working to establish industrial waste survey (IWS) procedures with each Member Agency (MA) to be notified of new businesses moving into each jurisdiction. On February 10, 2017, SOCWA Staff sent out emails to the following MAs and/or their Cities to obtain City listings of dental offices and to confirm that SOCWA periodically receives Water Will Serve Notices and/or Business Licensing Information. The following responses and progress has been made:

- **CSC** – Staff provided a list of all active dental offices via email on February 13, 2017. All active businesses are listed on and can be obtained periodically from the City website.
- **MNWD** (Cities of Aliso Viejo, Laguna Hills, and Laguna Niguel) – MNWD Staff periodically provide SOCWA copies of Will Serve notices. Staff further provided contacts for the City of Aliso Viejo and City of Laguna Hills. SOCWA Staff has reached out and is awaiting a response.
- **SMWD** (City of Mission Viejo and Rancho Santa Margarita) – SMWD Staff periodically provide SOCWA copies of Will Serve notices.
- **ETWD** (City of Laguna Woods) – Staff is working with City Hall personnel to obtain and provide a list of all active businesses.
- **IRWD** (City of Lake Forest) – Staff is working to obtain a City of Lake Forest contact and will notify SOCWA when they do.
- **SCWD** (City of Dana Point) – Staff has provided a contact for personnel from the City of Dana Point Economic Development Office and City Staff responsible for issuing Certificates of Occupancy. A voice message was left with both contacts on March 15, 2017 and SOCWA Staff is awaiting response.
- **CLB** – Staff provided a contact from the City Financing Office. SOCWA Staff sent an additional email on March 15, 2017 and is awaiting a response.
- **CSJC** – Staff have indicated that the City Clerk may be able to provide a monthly listing of all active businesses. A telephone message was left with the City Clerk on March 15.

Enforcement Related Activities

MNWD/SMWD (SOCWA) – Alliance Residential Broadstone - SOCWA Staff issued a warning notice of noncompliance (WNON) on February 22, 2017 for submitting the January self-monitoring report (SMR) past the required due date.

CSC – Regenesis – SOCWA Staff issued a warning notice of noncompliance (WNON) on February 22, 2017 for submitting the January self-monitoring report (SMR) past the required due date.

SMWD/MNWD (SOCWA) – Lake Mission Viejo APWTF – SOCWA Staff issued a warning notice of noncompliance (WNON) on March 2, 2017 for submitting the January self-monitoring report (SMR) past the required due date.

SCWD – Dana Point Shipyard - SOCWA Staff issued a NON to Dana Point Ship Yard on February 23, 2017 for submitting their annual report past the due date, failing to implement required BMPs, exceeding local limits for pH and copper, improperly filling out a sample chain of custody, and for failing to have their contract laboratory use 40 CFR approved lab methods.

Trainings and Committee Meetings Attended

SOCWA Staff attended the Southern California Alliance of Publicly Owned Treatment Works (SCAP) Pretreatment Committee quarterly meeting on February 21, 2017.

P3S Conference February 27, 2017 through March 1, 2017

Outreach Events

SOCWA Staff performed outreach at the 46th Annual Festival of Whales Ocean Awareness Day on March 5, 2017 by setting up a booth with informative material and talking with the public about environmental concerns and water related issues. Educational and fun outreach items were also distributed.

Inspection and Sampling Related Activities

SOCWA Staff conducted the following inspections on the following date:

- SCWD – Dana Point Ship Yard – Sampled on February 24, 2017 and Inspected on March 9, 2017 – conducted in response to a NON issued and described above.

Permit Related Activities

The following permits were issued or are in the process of being drafted for issuance:

SCWD-2-001 – Dana Point Shipyard – Permit modification performed March 13, 2017 and mailed March 20, 2017 to reflect recent facility retrofit conducted in regards to NPDES Order # R9-2013-0026. Modification included update to Sampling Location 001, flow monitoring and reporting requirements, and pretreatment system and facility diagrams.

MNWD/SCWD/CSJC – Non-Industrial Wastewater Discharge (NIWD) Form for San Juan Basin Authority – SOCWA Staff has prepared a final draft NIWD with required BMPs to allow for the discharge of wastewater groundwater as associated with annual maintenance of monitoring wells within the San Juan Basin. As of March 9, 2017, the final draft document is under review of SJB Staff. Once comments are received, SOCWA will send all affected MAs the final document for signature.

CSC-2-008 – SWD Permit for SDG&E – SOCWA Staff has prepared a draft Special Wastewater Discharge (SWD) Permit for review to allow for the discharge of water accumulated in and collected from utility vaults. SOCWA received and addressed draft Permit comments from

SDG&E personnel on March 7, 2017. SOCWA Staff sent the final draft Permit the CSC Staff on March 20, 2017 for review and signature.

SCWD-N4-006-09-16 – Nuisance Water Special Wastewater Diversion Permit (NSWD) for Headlands Reserves (Baby Beach) – SCWD issued a third extension to an existing agreement between SCWD and Headlands Reserves, effective March 9, 2017 through June 9, 2017. As of August 1, 2016, City of Dana Point Staff is responsible for the Diversion. SOCWA Staff has prepared a new draft permit which reflects Dana Point as the responsible party but is holding off on issuance until an agreement between SCWD and the City of Dana Point is finalized.

- o The Diversion is currently closed and will remain so until April 15, 2017.

SCWD-N4-007-09-16 – NSWD for Montage Resorts – SCWD issued a third extension to an existing agreement between SCWD and Montage Resorts, effective March 9, 2017 through June 9, 2017.

SCWD-N4-009-11-16 – NSWD for City of Dana Point Headlands – **City of Dana Point and SOCWA are waiting on SCWD to provide an amended Diversion Agreement. The current permit expired on November 20, 2016. SCWD Staff indicated via email on March 21, 2017 that an additional extension letter will be issued in the near future.** The permit will continue to allow storm drain nuisance water from three areas to be discharged to the sanitary sewer year round. The diversions are required to be closed in accordance with the diversion deactivation protocol and after receiving the 1/10” of any storm event.

SCWD-N4-008 – NSWD for Niguel Shores Community Association – **Current Permit expired March 20, 2017 along with the Agreement between Niguel Shores HOA and SCWD.** SOCWA Staff emailed Niguel Shores HOA the SWD Permit Renewal Application on March 21, 2017. SOCWA Staff is awaiting the filled-out application and either a copy of a new Agreement between HOA and SCWD or an extension to the existing Agreement.

**Summary of Activities and Types of IUs in the SOCWA Service Area.
 YTD through March 22, 2017.**

MA		Events	Permit	NIWD	BMP	FSE	OSE	Closed	Enforcement	# of IUs
CLB	(S)	1	3	2	5	8	111	0	0	129
CSC	(M)	0	5	35	18	181	1283	0	1	1522
CSJC	(S)	0	2	27	59	137	1669	0	0	1894
ETWD	(M)	0	3	98	0	262	134	0	0	497
EBSD	(U)	0	1	0	0	0	0	0	0	1
IRWD	(S)	1	3	51	21	63	920	0	0	1058
MNWD	(S)	23	6	125	40	603	2032	3	0	2806
SMWD	(S)	15	5	20	20	177	720	0	0	942
SCWD	(S)	0	14	33	7	148	184	0	1	386
TCWD	(S)	0	11	0	0	7	33	0	0	51
SOCWA	(S)	1	3	0	0	0	0	0	2	3
Totals		41	56	391	170	1586	7086	3	4	9289
Dentist (All)										380
Total Known IUs										9669

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

NIWD = Non-industrial Waste Discharger.
 BMP = Best Management Practices.
 FSE = Food Service Establishment.
 OSE = Other Surveyed Establishment.
 YTD = Year to Date.

Agenda Item

Legal Counsel Review: N/A

Meeting Date: April 6, 2017

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, 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.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS
('16/'17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
3213-000	Water System Piping Improvements (2014)	Design	Study completed. Remaining work is part of the Package 'B' Improvements.
3201-000	Aeration/Secondary Upgrade (2009)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has substantially completed the aeration improvements.
3214-000	4MGD Diversion Flow Meter & Control Structure (2012)	Design	Part of the Package 'B' Improvements.
3212-000	East Primary Influent Channel Repair (2015)	Design	Part of the Package 'B' Improvements.
3202-000	Preliminary and Primary Treatment Improvements (Package "B") (2016)	Design	Technical Memoranda No.2 and No. 3 will be reviewed with the Engineering Committee on April 13, 2017.
3203-000	Effluent Standby Generator ATS Replacement (2016)	Design	Gateway Pacific is currently working on installation of new auto transfer switch. Completion expected in March, 2017.
3252-000	Plant 1 Standby Power Generator Replacement (2017)	Design	Progress review meeting held with Hazen & Sawyer on March 23, 2017.
3251-000	Effluent Flow Meter Replacement (2017)	Design	Progress review meeting held with Hazen & Sawyer on March 23, 2017.
3250-000	Plant 1 Grit Basin Improvements (2017)	Design	Progress review meeting held with Hazen & Sawyer on March 23, 2017.
3253-000	Effluent System Valve Replacement (2017)	Design	Progress review meeting held with Hazen & Sawyer on March 23, 2017.
3204-000	Facility Improvements - Structural Repair (2015)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has substantially completed the structural improvements.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS
(16/17)**

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT COMMON			
3218-000	Energy Building Roof Reconstruction (2015)	Design	Part of the Package 'B' Improvements.
3206-000	Diesel Storage Tank (2016)	Design	Installation of the new storage tank has been substantially completed.
4014-000	Foul Air System Evaluation (2016) (NCP)	Study	Progress review meeting held with DHK Engineering held on March 9, 2017.
3205-000	West Side Power System Upgrade (2013)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has received and installed the new switchgear. The new service from SDG&E has been energized.
3216-000	Hoist System for Maintenance Shop (2013)	Design	Part of the Package 'B' Improvements.
3260-000	SCADA System Upgrade (2017)	Construction	Project underway by SOCWA Operations department.
4001-000	Plant Drain System Study (2017) (NCP)	Study	Purchase Order issued to Hazen & Sawyer.
CAPITAL IMPROVEMENT PROJECT SOLIDS			
3209-000	Facility Improvements - Co-Generation Reconstruction (2015)	Construction	Part of the Package 'A/C' Improvements. Awaiting final drawings from switchgear supplier Eaton for submittal to San Diego Gas & Electric.
3272-000	Dewatering System Controls Upgrade (2017)	Construction	Award of contract to Andritz approved at March 2, 2017, SOCWA Board Meeting.
4002-000	Dewatering System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued; proposals due March 28, 2017.
4003-000	Heating System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued; proposals due March 28, 2017.
3210-000	Facility Improvements - Solids Area (2015)	Design	Technical Memoranda No.2 and No. 3 will be reviewed with the Engineering Committee on April 13, 2017.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 5 - SAN JUAN CREEK OCEAN OUTFALL CAPITAL PROJECTS
(‘16/‘17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
3601-000	Junction Structure Rehabilitation Design	Design	Black & Veatch and Dudek are currently working on resource agency and Coastal Commission permit applications.
4004-000	Emergency Plan Development (2016) (NCP)	Study	Project review meeting held on February 23,2017.
4005-000	Dilution Study (2017) (NCP)	Study	Contract awarded to Michael Baker Inc.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS
(*16/'17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
1352	Lighting System Improvements (2014)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
3501-000	Fire Protection (2013)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
1367	Export Sludge Line Repair & Rip Rap (R - 2) (2012)	Study	Protection in this area has been largely addressed through the routing of the new Export Sludge pipeline as well as through minor embankment protection features that will be integrated with Export Sludge System replacement.
3502-000	RAS Hypochlorite System (2013)	Construction	This item is part of the Miscellaneous Improvements 2015 project. Pascal & Ludwig has completed the installation of the new chemical pipelines from the containment area to the RAS feedpoints.
3504-000	Aeration System Modification Design (2015)	Design	SOCWA staff is reviewing CH2MHill cost estimate for the project.
3505-000	Headworks Overflow Pipe Modifications (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
3506-000	Structural Modifications - Site (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
3507-000	East Primary Influent Gates (2015)	Design	Part of the Miscellaneous Improvements 2017 project current out to bid; bid opening on March 22, 2017.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS
(16/17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
3508-000	Grit System Knife Gate Valve Replacement (2015)	Bidding	Part of the Miscellaneous Improvements 2017 project. Received bids to be reviewed with the Engineering Committee on April 13, 2017.
3509-000	Switchgear Replacement Design (2016)	Design	SOCWA staff is reviewing CH2MHill cost estimate for the project.
3510-000	Grating Rebate and Concrete Repair Between Aeration Basins and Primary Basins (2016)	Bidding	Part of the Miscellaneous Improvements 2017 project. Received bids to be reviewed with the Engineering Committee on April 13, 2017.
4022-000	Influent/Overflow Condition Assessment (2016)	Condition Assessment	Project completed.
3512-000	Grating Rebate and Concrete Repair Between HW Building and Primary Basins (2016)	Bidding	Part of the Miscellaneous Improvements 2017 project current out to bid; bid opening on March 22, 2017.
3514-000	CTP Facility Upgrade Design (2016)	Design	SOCWA staff is reviewing CH2MHill cost estimate for the project.
3515-000	Existing Export Sludge Wetwell Refurbishment (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; this work has been substantially completed.
3534-000	Export Sludge System (1997)	Design	A review meeting was held with OC Parks staff on January 17, 2017. The issuance of the County Encroachment Permit is pending completion of the USFWS permit.
3550-000	Export Sludge Pump Addition (2017)	Bidding	Part of the Miscellaneous Improvements 2017 project. Received bids to be reviewed with the Engineering Committee on April 13, 2017.
3552-000	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations department.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS
(*16/'17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
3553-000	Plant Drainage Improvements (2017)	Design	A purchase order for this work has been issued to TetraTech.
3554-000	Odor Scrubber Bleach Tank Replacement (2017)	Design	Part of the Miscellaneous Improvements 2017 project. Received bids to be reviewed with the Engineering Committee on April 13, 2017.
4015-000	Conceptual Building Design (2017) (NCP)	Study	A purchase order for this work has been issued to AECOM.
3503-000	Scrubber Upgrade (2013)	Construction	Part of the Miscellaneous Improvements 2017 project. Received bids to be reviewed with the Engineering Committee on April 13, 2017.
CAPITAL IMPROVEMENT PROJECT AWT			
3516-000	Disinfection System Upgrade (AWT) (2011)	Construction	This item is part of the Miscellaneous Improvements 2015 project. Pascal & Ludwig has completed the installation of the process equipment.
1357	Hypochlorite Tank (AWT) (2013)	Construction	The new tank has been installed.
3562-000	AWT Applied Water Pump Replacement (2017)	Bidding	Part of the Miscellaneous Improvements 2017 project. Received bids to be reviewed with the Engineering Committee on April 13, 2017.
4006-000	Effluent Equalization System Condition Assessment (2017) (NCP)	Condition Assessment	Condition assessment completed in January; SOCWA staff is awaiting report.
4007-000	Contact Basins Condition Assessment (2017) (NCP)	Condition Assessment	Condition assessment completed in January; SOCWA staff is awaiting report.
3517-000	AWT Backwash Water Pump Replacement (2016)	Bidding	Part of the Miscellaneous Improvements 2017 project. Received bids to be reviewed with the Engineering Committee on April 13, 2017.
3518-000	Chlorine Mixer Replacement (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; the work is substantially complete.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS
(16/17)**

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
3701-000	Secondary Electrical System Rerouting (2014)	Design	Recommendation for award of design contract to Lee & Ro to be presented at April 6, 2017 SOCWA Board Meeting.
3730-000	Primary Gallery Upgrade (2014)	Design	RFP for this project to be issued in June, 2017,
3702-000	Waste Activated Sludge VFD Control Panel (2013)	Design	Recommendation for award of design contract to Lee & Ro to be presented at April 6, 2017 SOCWA Board Meeting.
3704-000	Odor Control Scrubber Control Panel No. 1 (2013)	Design	This project pending completion of odor technology evaluation.
3707-000	Influent Manholes 1 and 2 and Sewer Repair (2016)	Construction	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
3708-000	Influent Junction Structure Gate Replacement (2016)	Construction	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
201617RL3	Influent Junction Structure and Pipe Condition Assessment (2016) (NCP)	Condition Assessment	Work to be completed in conjunction with RTP Miscellaneous Improvements 2016.
3710-000	AWT Water Quality Instrumentation (2016)	Construction	Part of the RTP Miscellaneous Improvements 2016 Project; new instruments have been installed.
3712-000	Grit Basin Drop Gate and Weir Replacement (2016)	Construction	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
3752-000	AWT No.2 Upgrade Design (2017)	Design	Progress meeting held with Carollo Engineers on March 16, 2017.
1410	Aeration System Analysis (2015)	Study	This project has been completed.
201717RL1	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)	Condition Assessment	Project has been awarded to V&A consultants; assessments to be performed in December, 2017.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS
(16/17)**

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)	Condition Assessment	Project has been awarded to V&A consultants; assessments to be performed in June, 2017.
CAPITAL IMPROVEMENT PROJECT COMMON			
3715-000	Switchgear Upgrade (2006)	Construction	New switchgear has been installed. Awaiting for SCE installation of transformer and service meter.
3760-000	Develop Buried Piping Reconstruction Master Plan (2017)	Study	Draft report has been submitted by Lee & Ro.
3761-000	External Lighting Upgrade (2017)	Design	Design memorandum has been completed.
3763-000	Reroute Plant Drains (2017)	Construction	This project has been completed by SOCWA Operations staff.
3762-000	Secondary Access Road CEQA (2017)	Permitting	SOCWA reviewing proposal from Dudek for CEQA services.
3764-000	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations Dept.
3717-000	Security Fencing (2015)	Construction	Part of the RTP Miscellaneous Improvements 2016 Project; project is in the shop drawing phase.
3718-000	Access Bridge Upgrades (2015)	Construction	Part of the RTP Miscellaneous Improvements 2016 Project; project is in the shop drawing phase.
CAPITAL IMPROVEMENT PROJECT SOLIDS			
3720-000	Digester Dome Recoating (2014)	Construction	Pacific Hydrotech has substantially completed this work.
1478	Underground Piping Upgrade (2006)	Construction	Pacific Hydrotech has substantially completed this work.
3722-000	Co-Generation System Retrofit (2008)	Construction	Pacific Hydrotech is currently working on support piping for new engine generator.
3723-000	Recoat Top of Digesters (2016)	Construction	Part of the RTP Miscellaneous Improvements 2016 Project. Field work to begin in April, 2017.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 24 - ALISO CREEK OCEAN OUTFALL CAPITAL PROJECTS
(16/17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
4013-000	Emergency Plan Development (2016) (NCP)	Study	Project review meeting held on February 23,2017.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS**

Task Code	Description	Fiscal Year 16/17		Fiscal Year 17/18			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
FACILITY IMPROVEMENTS PACKAGES A/C		C					
3201-000	Aeration/Secondary Upgrade (2009)	C					
3203-000	Effluent Standby Generator ATS Replacement (2016)	C	C				
3204-000	Facility Improvements - Structural Repair (2015)	C					
3206-000	Diesel Storage Tank (2016)	C					
3205-000	West Side Power System Upgrade (2013)	C					
3209-000	Facility Improvements - Co-Generation Reconstruction (2015)	C	C				
FACILITY IMPROVEMENTS PACKAGE B		P	P	D	D	D	B&A
3213-000	Water System Piping Improvements (2014)	P	P	D	D	D	B&A
3214-000	4MGD Diversion Flow Meter & Control Structure (2012)	P	P	D	D	D	B&A
3202-000	Preliminary and Primary Treatment Improvements (Package "B") (2016)	P	P	D	D	D	B&A
3212-000	East Primary Influent Channel Repair (2015)	P	P	D	D	D	B&A
3218-000	Energy Building Roof Reconstruction (2015)	P	P	D	D	D	B&A
3216-000	Hoist System for Maintenance Shop (2013)	P	P	D	D	D	B&A
3210-000	Facility Improvements - Solids Area (2015)	P	P	D	D	D	B&A

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS**

Task Code	Description	Fiscal Year 16/17		Fiscal Year 17/18			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2017		D	D	B&A	C	C	C
3252-000	Plant 1 Standby Power Generator Replacement (2017)	D	D	B&A	C	C	C
3251-000	Effluent Flow Meter Replacement (2017)	D	D	B&A	C	C	C
3250-000	Plant 1 Grit Basin Improvements (2017)	D	D	B&A	C	C	C
3253-000	Effluent System Valve Replacement (2017)	D	D	B&A	C	C	C

INDEPENDENT PROJECTS							
4014-000	Foul Air System Evaluation (2016) (NCP)	P	P				
3260-000	SCADA System Upgrade (2017)	C	C				
4001-000	Plant Drain System Study (2017) (NCP)	P	P				
3272-000	Dewatering System Controls Upgrade (2017)		C	C			
4002-000	Dewatering System Condition Assessment (2017) (NCP)	CA	CA				
4003-000	Heating System Condition Assessment (2017) (NCP)	CA	CA				

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS**

Task Code	Description	Fiscal Year 16/17		Fiscal Year 17/18			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2015		C					
1352	Lighting System Improvements (2014)	C					
3501-000	Fire Protection (2013)	C					
3502-000	RAS Hypochlorite System (2013)	C					
3505-000	Headworks Overflow Pipe Modifications (2015)	C					
3506-000	Structural Modifications - Site (2015)	C					
3516-000	Disinfection System Upgrade (AWT) (2011)	C					
1357	Hypochlorite Tank (AWT) (2013)	C					
3518-000	Chlorine Mixer Replacement (2015)	C					
3515-000	Existing Export Sludge Wetwell Refurbishment (2015)	C					
FACILITY IMPROVEMENTS PACKAGE		P	P	D	D	D	B&A
3504-000	Aeration System Modification Design (2015)	P	P	D	D	D	B&A
3509-000	Switchgear Replacement Design (2016)	P	P	D	D	D	B&A
3514-000	CTP Facility Upgrade Design (2016)	P	P	D	D	D	B&A

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS**

Task Code	Description	Fiscal Year 16/17		Fiscal Year 17/18			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2017		B&A	C	C	C	C	
3507-000	East Primary Influent Gates (2015)	B&A	C	C	C	C	
3508-000	Grit System Knife Gate Valve Replacement (2015)	B&A	C	C	C	C	
3510-000	Grating Rebate and Concrete Repair Between Aeration Basins and Primary Basins (2016)	B&A	C	C	C	C	
3512-000	Grating Rebate and Concrete Repair Between HW Building and Primary Basins (2016)	B&A	C	C	C	C	
3550-000	Export Sludge Pump Addition (2017)	B&A	C	C	C	C	
3554-000	Odor Scrubber Bleach Tank Replacement (2017)	B&A	C	C	C	C	
3503-000	Scrubber Upgrade (2013)	B&A	C	C	C	C	
3562-000	AWT Applied Water Pump Replacement (2017)	B&A	C	C	C	C	
3517-000	AWT Backwash Water Pump Replacement (2016)	B&A	C	C	C	C	
EXPORT SLUDGE SYSTEM REPLACEMENT		ENV	ENV	B&A	C	C	C
1367	Export Sludge Line Repair & Rip Rap (R - 2) (2012)	ENV	ENV	B&A	C	C	C
3534-000	Export Sludge System (1997)	ENV	ENV	B&A	C	C	C

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS**

Task Code	Description	Fiscal Year 17/18					
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
INDEPENDENT PROJECTS							
4022-000	Influent/Overflow Condition Assessment (2016)						
3552-000	SCADA System Improvements (2017)	C	C				
3553-000	Plant Drainage Improvements (2017)	D	D	B&A	C		
4015-000	Conceptual Building Design (2017) (NCP)	P	P				
4006-000	Effluent Equalization System Condition Assessment (2017) (NCP)	CA					
4007-000	Contact Basins Condition Assessment (2017) (NCP)	CA					

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS**

Task Code	Description	Fiscal Year 16/17		Fiscal Year 17/18			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2016		C	C	C			
3707-000	Influent Manholes 1 and 2 and Sewer Repair (2016)	C	C	C			
3708-000	Influent Junction Structure Gate Replacement (2016)	C	C	C			
3710-000	AWT Water Quality Instrumentation (2016)	C	C	C			
3712-000	Grit Basin Drop Gate and Weir Replacement (2016)	C	C	C			
3717-000	Security Fencing (2015)	C	C	C			
3718-000	Access Bridge Upgrades (2015)	C	C	C			
3723-000	Recoat Top of Digesters (2016)	C	C	C			
COGENERATION AND SWITCHGEAR UPGRADE		C	C	C			
3715-000	Switchgear Upgrade (2006)	C	C	C			
3720-000	Digester Dome Recoating (2014)	C	C	C			
1478	Underground Piping Upgrade (2006)	C	C	C			
3722-000	Co-Generation System Retrofit (2008)	C	C	C			
MISCELLANEOUS IMPROVEMENTS 2017		D	D	D	D	B&A	C
3701-000	Secondary Electrical System Rerouting (2014)	D	D	D	D	B&A	C
3702-000	Waste Activated Sludge VFD Control Panel (2013)	D	D	D	D	B&A	C
3730-000	Primary Gallery Upgrade (2014)	D	D	D	D	B&A	C
3761-000	External Lighting Upgrade (2017)	D	D	D	D	B&A	C

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS**

Task Code	Description	Fiscal Year 16/17		Fiscal Year 17/18			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
INDEPENDENT PROJECTS							
3704-000	Odor Control Scrubber Control Panel No. 1 (2013)						
201617RL3	Influent Junction Structure and Pipe Condition Assessment (2016) (NCP)		CA	CA			
201717RL1	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)				CA	CA	
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)	CA					
3760-000	Develop Buried Piping Reconstruction Master Plan (2017)	P	P				
3762-000	Secondary Access Road CEQA (2017)	ENV	ENV				
3764-000	SCADA System Improvements (2017)	C	C				
3752-000	AWT No.2 Upgrade Design (2017)	D	D				

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

Project Committee No. 15

March 3, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on March 3, 2017 at 9:00 a.m. at South Coast Water District Administrative Office located at 31592 West Street, Laguna Beach, California. The following members of Project Committee No. 15 were present:

JOHN PIETIG	City of Laguna Beach (Alternate)
ANDY BRUNHART	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District
MATT COLLINGS	Moulton Niguel Water District (Alternate)

Absent:

TONI ISEMAN	City of Laguna Beach
JOONE LOPEZ	Moulton Niguel Water District

Also present:

JEREMY JUNGREIS	Rutan & Tucker
ART KIDMAN	Kidman Law
ALLISON BURNS	Stradling, Yocca, Carlson & Rauth

Chairman Dunbar called the meeting to order at 9:06 a.m. and welcomed everyone present.

Public Comments

Chairman Dunbar asked if members of the public desired to address the Board, or desired to reserve adding the Board during the meeting regarding any times on the Agenda.

There were no public comments received.

Open Session

Mr. Collings provided comments and a letter of March 2, 2017 to the Project Committee No. 15 Board. Mr. Collings departed at approximately 9:10 a.m. and did not participate in the Closed Session.

The Board meeting went into Closed Session at 9:10 a.m.

Closed Session

Closed Session was conducted under Government Code Section 54956.9 for the following purpose:

POTENTIAL LITIGATION – IN 1 MATTER

Pursuant to Government Code Section 54956.9 a Closed Session was conducted to confer with legal counsel RE: potential litigation in 1 matter.

The Board meeting reconvened at 12:09 p.m.

Report Out of Closed Session

Chairman Dunbar reported that there were no reportable actions from Closed Session.

Adjournment

There being no further business, Director Dunbar adjourned the meeting at 12:09 p.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 Project Committee No. 15 of March 3, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

Agenda Item

Meeting Date: April 6, 2017

TO: Project Committee 17 Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Brian Peck, Director of Engineering
SUBJECT: Replacement of Southern California Edison Service at Regional Treatment Plant

Summary

This agenda item notifies the Board of Directors of a payment made to Southern California Edison for the replacement of the main power service at the Regional Treatment Plant. This item was included in the budget for the Regional Treatment Plant Cogeneration and Switchgear Upgrade project as approved by the SOCWA Board of Directors.

Discussion

The Regional Treatment Plant Cogeneration and Switchgear Upgrade project involves the demolition of the existing switchgear which was installed during the original construction of the treatment plant in 1983. The new Switchgear MA will be located in a 1st floor room on the east side of the existing Energy Building. The design of the new switchgear required review and approval by SCE. The General Manager authorized staff to make payment as needed to avoid further project delay. In addition, SCE provides the following components:

- Cable connecting existing service entrance (on the hillside to the west of the Energy Building) to the new switchgear
- New transformer set
- New service and meter sections for the switchgear

The cost of the new service and the associated SCE design and field services has been set by SCE in the attached invoice as \$187,609.12.

The replacement of the transformer and the service meter are expected in April, 2017.

Advisory Committee Review

This item was included in the budget for the Regional Treatment Plant Cogeneration and Switchgear Upgrade Project as approved by the SOCWA Board of Directors.

Fiscal Impact

The cost associated with the work is payable from Project Committee 17 (Common) Task 3715-000 Switchgear Replacement. The allocation of the project cost to the member agencies is presented in Table 1.

TABLE 1 - ALLOCATION OF COST TO MEMBER AGENCY

Member Agency	Task 3715-000
El Toro Water District	\$19,248.70
Emerald Bay Service District	\$619.11
City of Laguna Beach	\$11,763.09
Moulton Niguel Water District	\$146,579.01
South Coast Water District	\$9,399.22
Total	\$187,609.12

Action

The Board of Directors hereby approves the payment of the \$187,609.12 issued to Southern California Edison.



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Southern California Edison Company

14155 BAKE PARKWAY
IRVINE CA 92618

SO ORANGE CO WASTEWATER AUTH
34156 DEL OBISPO ST
DANA POINT CA 92629 2916

Document #	
Invoice #	272640
Invoice Date:	03/20/2017
SCE Contact:	Aimee Marie Foster
Telephone:	(949)-587-5504
Install - Billing Option:	SCE INSTALL -

Description	Amount
Service Request Number: 2200776 Project: PANEL UPGRADE/RELOCATIO 29201 LA PAZ RD LAGUNA NIGUEL CA 92677 7608	
Item # 290547 Product: 1161945 - METER & SERVICE CHANGE Design #: 836087 PANEL UPGRADE/RELOCATIO	\$187,609.12
Previous Payment	\$0.00
<p>COMMENTS:</p> <ul style="list-style-type: none"> * Enclosed are two copies of your invoice. Please return one copy of the invoice with your payment to Accounts Receivable in the enclosed return-addressed envelope. The other copy of the invoice is for your records. * All prices are applicable for a period of 90 days from this date and are subject to change thereafter. * All payments must be delivered by mail, an alternate postal method, or one of our electronic payment options. Walk-in payments are no longer accepted at any SCE location, including Accounts Receivable. * Call the Edison company at 1-800-655-4555 to make application for electrical service. * An Edison Inspector must approve all underground systems. Please call your designated inspector 48 hours prior to construction to schedule an inspection. * Final electrical inspection from the local governmental building and safety department must be received before we can energize your service. 	
TOTAL PROJECT INVOICE AMOUNT:	
\$ 187,609.12	



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Southern California Edison Company

14155 BAKE PARKWAY
IRVINE CA 92618

SO ORANGE CO WASTEWATER AUTH
34156 DEL OBISPO ST
DANA POINT CA 92629 2916

Document #	
Invoice #	272640
Invoice Date:	03/20/2017
SCE Contact:	Aimee Marie Foster
Telephone:	(949)-587-5504
Install - Billing Option:	SCE INSTALL -

Description	Amount
Service Request Number: 2200776 Project: PANEL UPGRADE/RELOCATIO 29201 LA PAZ RD LAGUNA NIGUEL CA 92677 7608	

ADDITIONAL PAYMENT INSTRUCTIONS:

If paying by check, please follow instructions on payment stub

Instructions for wire or ACH payments:

JP Morgan Chase Bank
New York, NY
ABA#: 021000021 - Acct#: 323-394434
SCE Taxpayer ID No. 95-1240335

SCE Contact: Aimee Marie Foster
Document #:

*** Failure to properly identify your document number and SCE contact may delay the application of funds and initiation of your project

Special Instructions for overnight delivery methods:

Southern California Edison
Attn: Accounts Receivable
8631 Rush Street G-53
Rosemead, CA 91770

Please detach and return payment stub with payment

Payment Stub

Please pay total amount now due:

\$ 187,609.12

Invoice #: 272640

Thank you for paying promptly

Document #:

Make check payable to Southern California Edison

SO ORANGE CO WASTEWATER AUTH

ATTN: Accounts Receivable
PO Box 800
Rosemead, CA 91771-001

34156 DEL OBISPO ST
DANA POINT CA 92629 2916

Agenda Item

Budgeted: Yes

Budget amount: \$750,000

Line Item: PC 17 Tasks 3701-000 and 3702-000

Legal Counsel Review: No

Meeting Date: April 6, 2017

TO: Project Committee 17 Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Brian Peck, Director of Engineering
SUBJECT: Regional Treatment Plant Secondary Process Electrical System Improvements Final Design - Award of Engineering Services Contract to Lee & Ro

Summary

This agenda item provides a recommendation for the award of an engineering services contract to Lee & Ro for final design of the Regional Treatment Plant Secondary Process Electrical System Improvements.

Background

Motor Control Center 'F' (MCC 'F') was installed in the Administration Building as part of the original facility construction. This MCC feeds the six secondary sedimentation basin sludge collectors and the two secondary scum pumps. The MCC also feeds a variable frequency drive (VFD) panel that controls the return activated sludge (RAS) and waste activated sludge (WAS) pumps. Devices in the secondary sedimentation area of the plant have experienced failures due to apparent short circuiting of the power supply. The failures are believed to have been resulted from buried conduit failure.

The WAS pumping system includes four pumps operating with individual variable frequency drives (VFDs). The system was retrofit in 2009. New VFDs were retrofit into the existing panels. The system has experienced multiple operational failures of the control system. It has been theorized that the primary problem is the proximity of the control wiring and the power wiring in the conduit between MCC 'F', the VFD panel and the pumps.

SOCWA retained Lee & Ro in 2014 to develop alternatives for addressing the power supply and control issues with the secondary sedimentation electrical system and control issues with the WAS pumping system. The evaluation recommended that the existing conduit be replaced with a new underground duct bank between the Administration Building and the north end of the Mixed Liquor Channel and a new above ground conduit rack be installed along the top of the Mixed Liquor Channel with all new power and control conductors for the secondary sedimentation electrical system and the WAS pumping system.

The scope for the final design is to implement the recommended to the power and control system identified in the Lee & Ro study.

Requests for Proposals

Requests for Proposals (RFP's) for engineering services were submitted to the following three engineering firms:

- Carollo Engineers

- Hazen & Sawyer
- Lee & Ro

One proposal was received from Lee & Ro. Carollo and Hazen & Sawyer declined to propose due to other project commitments.

Discussion/Analysis

Comparison of Proposals

The Engineering Committee for Project Committee 17 Liquids reviewed the Lee & Ro proposal. A summary of the proposal is presented in Table 1.

TABLE 1 - PROPOSAL SUMMARY

Firm	Lee & Ro
Project Manager	Lee Badertscher
Project Engineer	Michael Assadourian
Principal	Dhiru Patel
Subconsultants	Associated Soils Engineering – Geotechnical Bess Testlab - Potholing
Qualifications	Firm prepared preliminary design document. Firm has successfully delivered multiple electrical improvement projects for SOCWA.
QA/QC	Greg DeBois designated as QA/QC
Total Drawings	24
Total Labor Hours	770
Project Schedule	Completion by October 2017
Contract Issues	None
Proposal Requirement Compliance	Complied

The Engineering Committee found that the qualifications, the approach and the level of effort identified in the Lee & Ro proposal were satisfactory.

The scope of work for the proposed project is presented in Exhibit 1.

Advisory Committee Review

The Regional Treatment Plant Secondary Process Electrical System Improvements proposal was reviewed by the Engineering Committee for Project Committee 17 Liquids on March 9, 2017. The Engineering Committee recommended award of the design services contract to Lee & Ro.

Fiscal Impact

The proposed design services fee for the condition assessment is \$136,072. Funding for the project is as shown in Table 2. The cost for the design services is within the available budget.

TABLE 2 – BUDGET SUMMARY

Project Committee	Task	Budget	Expended to Date	Remaining Budget	Proposed Engineering Cost
17	3701-000	\$350,000.00	\$15,208.00	\$334,792.00	\$68,036.00
17	3702-000	\$400,000.00	\$14,920.00	\$385,080.00	\$68,036.00
Total	-	\$750,000.00	\$30,128.00	\$719,872.00	\$136,072.00

The project costs are completely allocated to the Moulton Niguel Water District as both of the items are Project Committee 17 Liquids.

Recommendation

The following action is recommended:

- Approval of the award of the design services contract to Lee & Ro at a fee of \$136,072.00.

Exhibit 1
Scope of Work

Tasks include the following:

- I. Progress Meetings. FIRM shall prepare materials for, lead, maintain action list and decision log for five progress meetings to be conducted at either the Regional Treatment Plant or at SOCWA's Administration Building in Dana Point.
- II. Data Collection and Review. FIRM shall review all relevant as-built drawings and technical reports pertinent to the project.
- III. Review Final Conduit Routing. FIRM shall review conduit routing as identified as recommended in Lee & Ro study. FIRM shall meet with SOCWA staff to review potential variations on previously identified routing. FIRM and SOCWA staff shall agree on final routing to serve as basis for work in Tasks IV, V and VI.
- IV. Final Design. FIRM shall develop plans and specifications for the project elements in this RFP.
- V. Additional Structural Design. FIRM shall provide 20 hours of engineering and 40 hours of design technician to address structural design elements not described in the scope for this RFP.
- VI. Submittals. FIRM shall make three submittals: 50%, 95% and 100%.

FIRM shall address all SOCWA comments on the 50% and 95% submittals. FIRM shall provide one set of specifications on 8-1/2 x 11 paper, one copy of the final drawings on full size (22 x 34) mylar and one copy of the final drawings on 1/2 size bond paper. FIRM shall all provide specifications in electronic form (in *.doc format) and drawings in electronic form (in *.dwg and *.pdf format).

- VII. Final Design Cost Estimate. FIRM shall provide a detailed cost estimate with the 50% and 95% submittals.

Agenda Item

Legal Counsel Review: No

Meeting Date: April 6, 2017

TO: SOCWA Board of Directors
FROM: Betty Burnett, General Manager
SUBJECT: General Manager's Status Report

New Business

Administration

CWEA Wastewater Chemistry Course

On Wednesday, May 17, 2017, Encina Wastewater Authority will be hosting the CWEA course Wastewater Chemistry principles and applications. The course will begin at 7:30 AM to 8:00 AM with a sponsored continental breakfast and class starting at 8:00 AM to 4:30 PM.

The course will include presentations on chemistry terminology and fundamentals together with applications of these to relevant wastewater treatment examples. The fundamentals discussed will be Acid Base Reactions, Precipitation Reactions, and Oxidation/Reduction (Redox) Reactions. The applications discussed will include pH, Alkalinity, Nitrification, Anaerobic Digestion, CEPT, Chemical Phosphorus Removal, Struvite, Sulfide, BOD and COD.

A course flier for this event is attached.

Board Member Photos

Staff is planning to take Board Member Photos at the May Board meeting for addition to the SOCWA Board Room. The photographer will arrive at 7:30 a.m. on May 4, 2017 and will take photos as well following the meeting. Board Members are welcome to submit to staff head shots if they already have them, but it may be good to have the photos up to date and on a consistent background. Please plan to arrive early to the May Board meeting and/or stay after the meeting to have your photo taken. Members of the Finance and Engineering Committees will also have group photos taken for addition to the photo wall.

Policy on Expense and Capitalization

Staff has prepared a Draft Policy on Expense and Capitalization which will be distributed at the April Board meeting to Board Members and agencies' staff. The document will be a draft for review during the month of April and will be considered based on comments received at the May, 2017 Board meeting. The intent of the policy will be to provide the background necessary to understanding of the method SOCWA staff uses for the allocation of costs to either fixed (capitalized where criteria are met), or variable (expensed) categories for payment purposes.

UCI Public Policy Making Academy

On Friday, March 24, 2017 SOCWA General Manager participated in the UCI Public Policy Making Academy as part of introducing those in attendance to regional intergovernmental

agencies. General overviews were provided by OCTA, OCSD, TCA, OCFA, MWDOC, SOCWA, OCMVC, OCLAFCO and SCAQMD Executive Officers.

Operations

Statewide Emergency Declaration Approved

On March 16th, President Donald J. Trump declared a major disaster exists in the State of California and ordered Federal assistance to supplement State, tribal, and local recovery efforts in the areas affected by severe winter storms, flooding, and mudslides from January 18 to January 23, 2017. This will make it more likely that SOCWA will be reimbursed for storm damage that occurred in January. Storm damage repairs from the January storms is nearly complete. The remaining items for O&M include electrical and controls conduit replacements from water damage and/or shifting soils. Staff also continues to work with the insurance company for reimbursement. Work on the road repairs will be continuing into the summer months.

JBL Engine Startup Training Conducted

Staff at JBL and RTP received training for the new engine at JBL. This included 3 days of hands on training. Additional factory certified training is being scheduled for key maintenance staff in the near future. Staff will be traveling to Wisconsin to the GE factory training center. Factory certifications are required by GE to access more information in the engine control systems. Security controls include PIN's and passwords being assigned to individuals based on their certification levels.

CTP Outfall Meter Replacement

The lowered demands on the recycled system allowed for SOCWA staff and contractors to replace the ocean outfall meter at CTP. This required 2 full day shutdowns for the inspection, installation, testing and calibration of the new meter.

JBL Wall Heightening Underway

As part of the agreement with developer adjacent to the JBL Plant, the adjoining wall is to be raised up to 2 feet. As of the writing of this item, the wall was well under construction and is anticipated to be completed by the April Board meeting. The cost of the construction is about \$75,000 which is being split between SOCWA and the developer.

New CTP Odor Control Monitoring Equipment Installed

SOCWA staff completed the installation of odor control equipment that monitors hydrogen sulfides continuously. This new system will help the staff ensure compliance with SCAQMD's rules around the clock. Previously, staff would collect one sample per day to measure levels for compliance.

Environmental Compliance

Microbiology Training at JBL and CTP

Training was held on March 27 at JBL and on March 28 at CTP for staff Operators and Lab personnel to learn more about wastewater microbiology and activity inside the wastewater treatment processes. Dr. Jenkins and Dr. Pitt provided the two-day training which include methods of identification of micro-organisms, plant trouble shooting, microscope use and

enhancements, and lab staining technics for most effective diagnosis of in plant treatment conditions. The event was well attended by 20 staff from SOCWA and the surrounding wastewater treatment agencies, including San Clemente, Encina and Santa Margarita Water District. Training was organized by Amber Baylor of SOCWA staff and Hazen and Sawyer staff also attended and provided lunch on both days. Based on participation in this training agencies' staff can provide samples to Dr. Jenkins and Dr. Pitt for comment and assistance in identification. Proper identification of conditions can save time and improve efficiency of the treatment process.

Contact information for the presenters is as follows:

David Jenkins, Professor Emeritus, University of California at Berkeley, flocdr@yahoo.com

Paul Pitt, Vice-President and Wastewater Design Director, Hazen and Sawyer, ppitt@hazenandsawyer.com

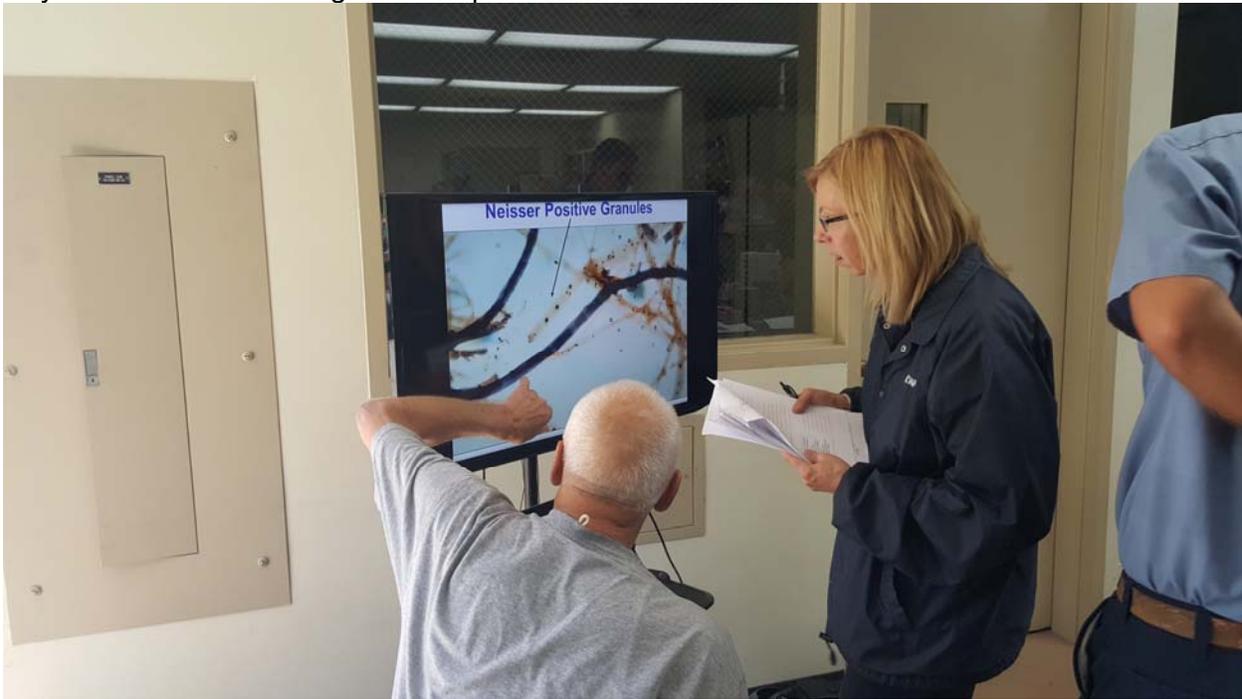
Microbiology Training



Day 1 Training at JBL



Day 2 Dr. Jenkins Training Microscope Use at CTP with San Clemente Staff



Day 2 Dr. Jenkins teaching SOCWA Lab Staff identification skills

Agenda Item

Legal Counsel Review: No

Meeting Date: April 6, 2017

TO: SOCWA Board of Directors
From: Betty Burnett, General Manager
SUBJECT: Approval of Resolution 2017-01 – William Cameron Commendation

Mr. William Cameron was the City of San Clemente representative on the SOCWA Board of Directors since its reorganization in July 2001, serving prior to that date as a Director on the SERRA Board, beginning in 1986.

We have prepared the attached Resolution 2017-01 for your consideration, commending Mr. Cameron for his efforts in serving as a Director of SOCWA.

Advisory Committee Review

None

Recommendation

Approve Resolution No. 2017-01 commending Mr. Cameron for his service to SOCWA.

Fiscal Impact

Minor expense for Resolution.

attachments (1): Resolution 2017-01

RESOLUTION NO. 2017-01

**RESOLUTION OF THE BOARD OF DIRECTORS
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
COMMENDING BILL CAMERON
FOR HIS OUTSTANDING SERVICE TO THE AUTHORITY**

WHEREAS, the South Orange County Wastewater Authority (SOCWA) was created on July 1, 2001 through the consolidation of the South East Regional Reclamation Authority (SERRA), the Aliso Water Management Agency (AWMA) and the South Orange County Reclamation Authority (SOCRA); and

WHEREAS, Mr. William Cameron was first appointed to the SERRA Board of Directors as the Director for the City of San Clemente 1986,

WHEREAS, Mr. Cameron, has served SERRA, and now the SOCWA Board of Directors, conscientiously and with decorum for thirty-one (31) years, acting in his capacity as Director to help guide the business of SOCWA in a steady, thoughtful and fair-minded manner; and

WHEREAS, SOCWA benefited greatly from Mr. Cameron's expertise as the City Engineer for the San Clemente, often relying on his sound judgment and natural intelligence to guide policies and decision making, in all areas,

NOW, THEREFORE, the South Orange County Wastewater Authority Board of Directors does hereby **RESOLVE, DETERMINE, and ORDER** as follows:

Section 1. That Mr. William Cameron is sincerely commended for his honorable and conscientious public service as a member of the Board of Directors of SOCWA. During his tenure on the Board, Mr. Cameron gave generously of his time, effort and experience, playing an active role in promoting the regional concept of wastewater collection, treatment and reuse in South Orange County for the benefit of all members of SOCWA and the ratepayers they serve. The South Orange County Wastewater Authority wishes to express its appreciation and gratitude for having had the opportunity to benefit from Mr. Cameron's professional character and sound wisdom.

Section 2. The Secretary is directed to provide a certified copy of this resolution to Mr. William Cameron and to maintain an original of this resolution in the permanent records of the Authority.

ADOPTED, SIGNED AND APPROVED this 6th day of April 2017.

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

BY: _____
Chairperson

(seal)

BY: _____
Secretary