

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](http://www.socwa.com).

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

**AGENDA**

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

Thursday, January 12, 2017  
10:00 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. CONSENT CALENDAR

A. Approval of Minutes

Board of Directors Meeting December 8, 2016.....1  
Board of Directors Meeting November 3, 2016.....6  
Board of Directors Meeting May 12, 2016.....15  
Engineering Committee Meeting October 13, 2016.....16  
Finance Committee Meeting August 30, 2016.....20  
Finance Committee Meeting October 25, 2016.....22

ACTION      The Board will be requested to approve subject Minutes.

B. Approval of Financial Matters	
Monthly Financials Report.....	24
a) Summary of Disbursements for October, November and December 2016 – Exhibit A.....	26
b) Schedule of Funds Available for reinvestment – Exhibit B.....	27
c) Schedule of Cash and Investments – Exhibit C.....	28
d) Capital Projects Summary – Exhibit D.....	29
Capital Projects Budget vs. Actual Graph – Exhibit D1.....	30
e) Budget vs. Actual Expenses – Exhibits E1-E4	
Operations/Maintenance & Environmental Safety Costs – Exhibit E1.....	31
Engineering Budget vs. Actual Comparison – Exhibit E2.....	33
Administration Budget vs. Actual Comparison – Exhibit E3.....	34
Information Technology (IT) Budget vs. Actual Comparison – Exhibit E4.....	35
C. Operational Reports	
1) Monthly Operations Report – November 2016.....	36
2) Ocean Outfall Discharges.....	45
3) Beach/Ocean Monitoring Report.....	47
4) Recycled Water Report.....	68
5) Pretreatment Report.....	72
ACTION	The Board will be requested to receive and file subject reports.
FISCAL IMPACT	None.
D. Capital Improvement Program Status Report.....	76
ACTION	The Board will be requested to receive and file subject reports.
FISCAL IMPACT	None.
E. Project Committee No. 2	
Change Order – Butier Engineering Construction.....	94
ACTION	The Board will be requested to approve Change Orders 1, 2, and 3 to the construction contract with Gateway Pacific for the J. B. Latham Treatment Plant Facility Improvements Packages ‘A’ and ‘C’ Project.
FISCAL IMPACT	Refer to staff report.
Change Order – Gateway Pacific Construction.....	98
ACTION	The Board will be requested to approve Change Orders 33, 34, 35, and 36 to the construction contract with Gateway Pacific for the J. B. Latham Treatment Plant Facility Improvements Packages ‘A’ and ‘C’ Projects.
FISCAL IMPACT	Refer to staff report.
F. Project Committee No. 15.....	101
Change Order – Pascal & Ludwig	
ACTION	The Board will be requested to approve Change Order 4 to the construction contract with Pascal & Ludwig for the Coastal Treatment Miscellaneous Improvements 2015 Project.
FISCAL IMPACT	Refer to staff report.

5. ENGINEERING MATTERS

A. Award of Engineering Services Contract [PC2].....103

ACTION The Board will be requested to approve the award of engineering services contract to Hazen & Sawyer for the final Design of the J. B. Latham Treatment Plant Miscellaneous Improvements 2017 at a fee of \$122,838.

FISCAL IMPACT Refer to staff report.

6. GENERAL MANAGER'S REPORTS

A. Award of Contract – Pacific Rim Fall Protection [PC2, 15 & 17].....109

ACTION The Board will be requested to approve award of contract to Pacific Rim Fall Protection for davit base installation and removal in the amount not to exceed \$104,637.24.

FISCAL IMPACT Refer to staff report.

B. Wastewater Association Memberships.....112

ACTION The Board will be requested to concur in the payment of memberships in the California Association of Sanitation Agencies (\$12,855), National Association of Clean Water Agencies (\$23,130).

FISCAL IMPACT Refer to staff report.

C. General Manager's Status Report.....113

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

- Board Questions
- Receive and file

7. 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.]

8. ADJOURNMENT

THE NEXT REGULAR SOCWA BOARD MEETING WILL BE HELD ON  
FEBRUARY 2, 2017 AT 8:30 A.M.

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

**Board of Directors**

**December 8, 2016**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, December 8, 2016 at 9:30 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:

DAN FERONS, Santa Margarita Water District	Chairman
SCOTT GOLDMAN, El Toro Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
TONI ISEMAN, City of Laguna Beach	Vice Chairman
MIKE DUNBAR, Emerald Bay Water District	Director
ANDY BRUNHART, South Coast Water District	Director
STEPHEN DOPUDJA, Trabuco Canyon Water District	Director
DAVE REBENDSOLF, City of San Clemente	Alternate Director [arrival 10:10 a.m.]

Absent:

DOUG REINHART, Irvine Ranch 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 [arrival 9:45 a.m.]
BRENNON FLAHIVE	Environmental Compliance Administrator
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
DINA ASH	Human Resource Analyst
TERI NOSON	Executive Assistant/Assistant Secretary

Also present:

DAVID SHISSLER	City of Laguna Beach
RICK ERKENEFF	South Coast Water District
DENNIS ERDMAN	South Coast Water District
FRED ADJARIAN	El Toro Water District
JIM REED	Irvine Ranch Water District

Chairman Ferons called the meeting to order at 9:30 a.m. and welcomed everyone present. Director Miller 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 on the Agenda. No comments were received.

Chairman Ferons deferred to Director Lopez for comments regarding the long-term water use efficiency regulations pending before the State Water Board. Director Lopez reported that the Urban/Agriculture Advisory group held a meeting in November, 2016 whereat the AWR, PUC and SWRCB representatives participated. Under consideration are (i) supplier targets for

tracking water system loss (ii) reporting requirements, (iii) residential efficiency targets, (iv) supply development, and (v) water shortage contingency plans, among other items. Director Lopez reported that the information provided by water agencies from across the State is being heard and considered by the State Board to take into account highly variable systems and resources of agencies.

**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. There were none.

**ACTION TAKEN**

Motion was made by Director Dunbar and seconded by Director Goldman to approve the items under the consent calendar.

Motion carried:           Aye 8; Nay 0; Abstain 0; Absent 2.

Chairman Ferons	Aye
Director Goldman	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Director Reinhart	Absent
Vice Chairman Iseman	Aye
Chairman Dunbar	Aye
Director Brunhart	Aye
Director Dopudja	Aye
Director Cameron	Absent

**Financial Matters**

**Approval of Fiscal Year 2015-16 Use Audit**

**ACTION TAKEN**

Motion was made by Director Miller and seconded by Director Brunhart to approve: 1) Fiscal Year 2015-16 Use Audit dated November 29, 2016, 2) approve refunds for Agencies whose costs were under budget, and 3) approve billings for Agencies with additional assessments.

Motion carried:           Aye 8; Nay 0; Abstain 0; Absent 2.

Chairman Ferons	Aye
Director Goldman	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Director Reinhart	Absent
Vice Chairman Iseman	Aye
Chairman Dunbar	Aye
Director Brunhart	Aye
Director Dopudja	Aye
Director Cameron	Absent

**General Manager's Report**

**Award of Contract – Outfall Dilution Study**

**ACTION TAKEN**

Motion was made by Director Brunhart and seconded by Director Miller to approve the award of contract to Michael Baker International in the amount of \$102,670 for the Outfall Dilution Analysis.

Motion carried: Aye 8; Nay 0; Abstain 0; Absent 2.

Chairman Ferons	Aye
Director Goldman	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Director Reinhart	Absent
Vice Chairman Iseman	Aye
Chairman Dunbar	Aye
Director Brunhart	Aye
Director Dopudja	Aye
Director Cameron	Absent

Employee Recognition Resolutions

1) Resolution No. 2016-07 – Ms. Hillary Kelly, 33 years of Service

**ACTION TAKEN**

Motion was made by Director Dunbar and seconded by Director Miller to approve Resolution No. 2016-07 and authorize Chairman Ferons to sign the Commendation on behalf of the Board of Directors of the South Orange County Wastewater Authority.

Motion carried: Aye 8; Nay 0; Abstain 0; Absent 2.

Chairman Ferons	Aye
Director Goldman	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Director Reinhart	Absent
Vice Chairman Iseman	Aye
Chairman Dunbar	Aye
Director Brunhart	Aye
Director Dopudja	Aye
Director Cameron	Absent

2) Resolution No. 2016-08 – Mr. Brian Wetmore, 30 years of Service

**ACTION TAKEN**

Motion was made by Director Brunhart and seconded by Director Lopez to approve Resolution No. 2016-08 and authorize Chairman Ferons to sign the Commendation on behalf of the Board of Directors of the South Orange County Wastewater Authority.

Motion carried: Aye 8; Nay 0; Abstain 0; Absent 2.

Chairman Ferons	Aye
Director Goldman	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Director Reinhart	Absent
Vice Chairman Iseman	Aye
Chairman Dunbar	Aye
Director Brunhart	Aye
Director Dopudja	Aye

Director Cameron

Absent

**Other Matters**

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

**Closed Session**

There being no objection from the Board, the Chairman tabled the Closed Session item.

**Adjournment**

There being no further business, Chairman Ferons adjourned the meeting at 10:18 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 December 8, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

**December 8, 2016**

<u>DESCRIPTION</u>	<u>MOTION MADE BY</u>	<u>ACTION</u>
Consent Calendar	Dunbar	Approved
Approval of Fiscal Year 2015-16 Use Audit	Miller	Approved
Award of Contract – Outfall Dilution Study	Brunhart	Approved
Employee Recognition Resolutions Resolution No. 2016-07 – Ms. Hillary Kelly, 33 years of Service	Dunbar	Approved
Employee Recognition Resolutions Resolution No. 2016-08 – Mr. Brian Wetmore, 30 years of Service	Brunhart	Approved



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

**Board of Directors**

**November 3, 2016**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, November 3, 2016 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
FRED ADJARIAN, El Toro Water District	Alternate Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
DOUG REINHART, Irvine Ranch Water District	Director
TONI ISEMAN, City of Laguna Beach	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
ANDY BRUNHART, South Coast Water District	Director
HECTOR RUIZ, Trabuco Canyon Water District	Alternate Director
BILL CAMERON, City of San Clemente	Director [exit 10:15]

Absent:

SCOTT GOLDMAN, El Toro Water District	Director
STEPHEN DOPUDJA, Trabuco Canyon Water District	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/Contracts Administrator
TERI NOSON	Executive Assistant/Assistant Secretary

Also present:

DAVID SHISSLER	City of Laguna Beach
RICK ERKENEFF	South Coast Water District
DENNIS ERDMAN	South Coast Water District
JIM REED	Irvine Ranch Water District
MATT COLLINGS	Moulton Niguel Water District
STU LUCE	Public
STEVE SANDLAND	PDI

Chairman Ferons called the meeting to order at 8:30 a.m. and welcomed everyone present. Mr. Peck 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 Dunbar requested that item 4E - Project Committee No. 2, Change Order – Gateway Pacific Construction, be pulled from the Consent Calendar.

**ACTION TAKEN**

Motion was made by Director Adjarian and seconded by Director Iseman to approve the items under the consent calendar sans item 4E - Project Committee No. 2, Change Order – Gateway Pacific Construction.

Motion carried:	Aye 10; Nay 0; Abstain 0; Absent 0
Director Dunbar	Aye
Director Adjarian	Aye
Director Lopez	Aye
Director Miller	Aye
Director Reinhart	Aye
Vice Chairman Iseman	Aye
Chairman Ferons	Aye
Director Brunhart	Aye
Director Ruiz	Aye
Director Cameron	Aye

4E - Project Committee No. 2, Change Order – Gateway Pacific Construction

**ACTION TAKEN**

Motion was made by Director Burnhart and seconded by Director Miller to approve item 4E Project Committee No. 2, Change Order – Gateway Pacific Construction.

Motion carried:	Aye 4; Nay 0; Abstain 0; Absent 0
Director Miller	Aye
Director Brunhart	Aye
Director Lopez	Aye
Chairman Ferons	Aye

**Engineering Matters**

Award of Engineering Contract – Regional Treatment Plant [PC17]

**ACTION TAKEN**

Motion was made by Director Lopez and seconded by Director Brunhart to approve the award of engineering services contact to Carollo Engineers at a fee of \$152,950.

Motion carried:	Aye 5; Nay 0; Abstain 0; Absent 0
Director Adjarian	Aye
Director Lopez	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Aye
Director Brunhart	Aye

**ACTION TAKEN**

Motion was made by Director Lopez and seconded by Director Brunhart to approve the award of engineering services contact to DHK Engineering at a fee of \$93,540.

Motion carried: Aye 7; Nay 0; Abstain 0; Absent 0

Director Adjarian	Aye
Director Lopez	Aye
Director Miller	Aye
Vice Chairman Iseman	Aye
Director Dunbar	Aye
Director Brunhart	Aye
Chairman Ferons	Aye

**Financial Matters**

**Financial Statements & Independent Auditors Report FY Ended June 30, 2015**

**ACTION TAKEN**

Motion was made by Director Miller and seconded by Director Iseman to receive and file the Financial Statements and Independent Auditor’s Report for the Year Ended June 30, 2015, including the Governance Letter and the Auditor’s Report on the Internal Controls as prepared by DavisFarr, LLP.

Motion carried: Aye 10; Nay 0; Abstain 0; Absent 0

Director Dunbar	Aye
Director Adjarian	Aye
Director Lopez	Aye
Director Miller	Aye
Director Reinhart	Aye
Vice Chairman Iseman	Aye
Chairman Ferons	Aye
Director Brunhart	Aye
Director Ruiz	Aye
Director Cameron	Aye

**Fiscal Year 2016/17 Operating Expenses and Capital Expenditures Budget**

**ACTION TAKEN**

Motion was made by Director Reinhart and seconded by Director Adjarian to:

1) reaffirm the FY 2016/17 SOCWA Budget with Operating Expenses of \$19,623,760 and Capital Expenditure of \$18,633,032 with a vote of all member agencies separate from the Project Committee budget vote, and reaffirm the budgets for Project Committee No.’s 2, 17, 15, 2SO, 5, 24, 21 and 8 separately with Project Committee members voting on respective budgets individually.

2) future SOCWA budget approvals will be approved by process of: 1) all member agencies Directors will approve/vote on the SOCWA General Budget separate of the Project Committee budgets, and 2) all Project Committee budgets will be approved separately with Project Committee members voting on respective budgets individually.

Director Brunhart submitted a comment for the record stating that he would register a “no” vote due to the prior approval of SOCWA FY 2016/17 Budget with Operating Expenses of \$19,623,760 on June 28, 2016, and a lack of clarity as to the direction for reconsideration of the FY 2016/17 SOCWA Budget with Operating Expenses at the Board of Directors meeting on October 26, 2016. Further Director

Brunhart requested additional time to consider Consent Calendar item 6B Fiscal Year - 2016/17 Operating Expenses and Capital Expenditures Budget.

Motion carried: Aye 9; Nay 1; Abstain 0; Absent 0

Director Dunbar	Aye
Director Adjarian	Aye
Director Lopez	Aye
Director Miller	Aye
Director Reinhart	Aye
Vice Chairman Iseman	Aye
Chairman Ferons	Aye
Director Brunhart	Nay
Director Ruiz	Aye
Director Cameron	Aye

- 1) Motion was made by Director Reinhart and seconded by Director Adjarian to approve/reaffirm the FY 2016/17 Administration Budget (inclusive of general fund and project committee administration expenses, residual engineering and IT).

Motion carried: Aye 9; Nay 0; Abstain 1; Absent 0

Director Dunbar	Aye
Director Adjarian	Aye
Director Lopez	Aye
Director Miller	Aye
Director Reinhart	Aye
Vice Chairman Iseman	Aye
Chairman Ferons	Aye
Director Brunhart	Abstain
Director Ruiz	Aye
Director Cameron	Aye

- 2) Motion was made by Director Lopez and seconded by Director Miller to approve/reaffirm Project Committee No. 2 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety and IT) and Project Committee No. 2 Capital Expenditures Budget (inclusive of large capital, non-capital engineering and small capital).

Director Brunhart noted for the record an abstention vote due to insufficient time to consider item.

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

Director Lopez	Aye
Director Miller	Aye
Chairman Ferons	Aye
Director Brunhart	Abstain

- 3) Motion was made by Director Dunbar and seconded by Director Adjarian to approve/reaffirm Project Committee No. 17 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety and IT) and Project Committee No. 17 Capital Expenditures Budget (inclusive of large capital, non-capital engineering and small capital).

Director Brunhart noted for the record an abstention vote due to insufficient time to consider item.

Motion carried: 9 Aye 4; Nay 0; Abstain 1; Absent 0

Director Dunbar	Aye
Director Adjarian	Aye
Director Lopez	Aye
Vice Chairman Iseman	Aye
Director Brunhart	Abstain

- 5) Motion was made by Director Reinhart and seconded by Director Adjarian to approve Project Committee 2SO (Project Committee No. 12) Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety and IT).

Director Brunhart noted for the record an abstention vote due to insufficient time to consider item.

Motion carried: Aye 6; Nay 0; Abstain 1; Absent 0

Director Adjarian	Aye
Director Lopez	Aye
Director Miller	Aye
Director Reinhart	Aye
Chairman Ferons	Aye
Director Brunhart	Abstain
Director Ruiz	Aye

- 6) Motion was made by Director Cameron and seconded by Director Miller to approve Project Committee No. 5 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety and IT) and Project Committee No. 5 Capital Expenditures Budget (inclusive of large capital and non-capital engineering).

Director Brunhart noted for the record an abstention vote due to insufficient time to consider item.

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

Director Lopez	Aye
Director Miller	Aye
Chairman Ferons	Aye
Director Brunhart	Abstain
Director Cameron	Aye

- 7) Motion was made by Director Reinhart and seconded by Director Adjarian to approve Project Committee No. 24 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety and IT) and Project Committee No. 14 Capital Expenditures Budget (inclusive of large capital, non-capital engineering).

Director Brunhart noted for the record an abstention vote due to insufficient time to consider item.

Motion carried: Aye 5; Nay 0; Abstain 1; Absent 0

Director Dunbar	Aye
Director Adjarian	Aye
Director Lopez	Aye
Director Reinhart	Aye
Vice Chairman Iseman	Aye
Director Brunhart	Abstain

- 8) Motion was made by Director Adjarian and seconded by Director Reinhart to approve Project Committee No. 21 (ETM) Operations and Maintenance Budget and Project

Committee No. 21 Capital Expenditures Budget (inclusive of large capital, non-capital engineering).

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

Director Adjarian	Aye
Director Reinhart	Aye
Director Lopez	Aye

- 9) Motion was made by Director Dunbar and seconded by Director Cameron to approve Project Committee No. 8 (Pretreatment) Operations and Maintenance Budget (inclusive of Environmental Compliance and Safety).

Director Brunhart noted for the record an abstention vote due to insufficient time to consider item.

Motion carried: Aye 8; Nay 0; Abstain 1; Absent 0

Director Dunbar	Aye
Director Adjarian	Aye
Director Lopez	Aye
Director Miller	Aye
Director Reinhart	Aye
Vice Chairman Iseman	Aye
Chairman Ferons	Aye
Director Brunhart	Abstain
Director Cameron	Aye

The Chairman adjourned the Board meeting for a brief recess at 9:15 a.m.

The Board meeting reconvened at 9:25 a.m.

Ms. Burnett for the record inquired clarity that South Coast Water District affirms their vote on June 28, 2016, to approve the SOCWA budget still stands as their vote on the budget. Director Burnhart reaffirmed for the record that South Coast Water District's approval of the SOCWA budget at the June 28, 2016 still stands.

Ms. Burnett stated with the reaffirmation of South Coast Water District's approval of the SOCWA Budget on June 28, 2016, there are the required approvals to proceed with the SOCWA budget as it was approved on June 28, 2016 with the exception of impending vote of Consent Calendar item B4.

- 4) Motion was made by Director Dunbar and seconded by Director Burnhart to reaffirm the Project Committee No. 15 vote for approval taken on June 28, 2016, that approved Project Committee No. 15 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety and IT) and Project Committee No. 15 Capital Expenditures Budget (inclusive of large capital, non-capital engineering and small capital).

Director Lopez submitted a comment for the record stating that she would register a "no" vote due to Moulton Niguel Water District's different interpretation of the Operation & Maintenance and Capital portion of the Project Committee No. 15 budget.

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

Director Dunbar	Aye
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Director Lopez	Nay
Vice Chairman Iseman	Aye
Director Brunhart	Aye

**General Manager's Report**

**Establish Budget for Implementation of Zephyr Properties Wall Agreement [PC2]**

**ACTION TAKEN**

Motion was made by Director Brunhart and seconded by Chairman Ferons to establish a Project Committee No. 2 capital project budget of \$150,000 to extend the SOCWA Property wall adjacent to the 27 DBV Owner, LLC development; and, authorize the General Manager to execute a temporary construction entry license with 27 DBV Owner, LLC in a manner to approved by the General Counsel.

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

Chairman Ferons	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Director Brunhart	Aye

**Biosolids Contract Award – Nursery Products [PC2 & 17]**

**ACTION TAKEN**

Motion was made by Director Dunbar and seconded by Director Iseman to approve a contract to Nursery Products for five (5) years with up to two (2) optional renewals with the following conditions: a) management fee \$27 per wet ton (no minimum tonnage guarantee, b) haul fee \$495 per trip, c) trailer rental \$88 per day, if used.

Motion carried: Aye 7; Nay 0; Abstain 0; Absent 0

Chairman Ferons	Aye
Director Goldman	Aye
Director Ray Miller	Aye
Director Lopez	Aye
Vice Chairman Iseman	Aye
Chairman Dunbar	Aye
Director Brunhart	Aye

**General Manager's Status Report**

**ACTION TAKEN**

**ACTION TAKEN**

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

**Other Matters**

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

**Closed Session**

There being no objection from the Board, the Chairman tabled the Closed Session item.

**Adjournment**

There being no further business, Chairman Ferons adjourned the meeting at 10:40 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

November 3, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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



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

**November 3, 2016**

<u>DESCRIPTION</u>	<u>MOTION MADE BY</u>	<u>ACTION</u>
Consent Calendar	Adjarian	Approved
4E - Project Committee No. 2, Change Order – Gateway Pacific Construction	Adjarian	Approved
Award of Engineering Contract – Reginal Treatment Plant [PC17]	Lopez	Approved
Award of Engineering Contract – JB Latham Treatment Plant [PC2 & 17]	Lopez	Approved
Financial Statements & Independent Auditors Report FY Ended June 30, 2015	Miller	Approved
Fiscal Year 2016/17 Operating Expenses and Capital Expenditures Budget motions to approve/reaffirm:		
Total FY Operating and Capital Budget with direction to take individual Project Committee Budgets by separate vote.		
1) FY 2016/17 Administration Budget	Reinhart	Approved
2) Project Committee No. 2	Lopez	Approved
3) Project Committee No. 17	Dunbar	Approved
4) Project Committee No. 15	Dunbar	Approved
5) Project Committee No. 2SO	Reinhart	Approved
6) Project Committee No. 5	Cameron	Approved
7) Project Committee No. 24	Reinhart	Approved
8) Project Committee No. 21	Adjarian	Approved
9) Project Committee No. 8	Dunbar	Approved
Establish Budget for Implementation of Zephyr Properties Wall Agreement [PC2]	Dunbar	Approved
Biosolids Contract Award – Nursery Products [PC2 & 17]	Dunbar	Approved

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

**Board of Directors**

**May 12, 2016**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, May 12, 2016 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:

DAN FERONS, Santa Margarita Water District	Vice Chairman
SCOTT GOLDMAN, El Toro Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
DOUG REINHART, Irvine Ranch Water District	Director
TONI ISEMAN, City of Laguna Beach	Director
MIKE DUNBAR, Emerald Bay Water District	Chairman
RICK ERKENEFF, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
BILL CAMERON, City of San Clemente	Director

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

**Closed Session**

Closed Session pursuant to Government Code Section 54957(b)(1):

Public Employee Performance Evaluation – General Manager

The Board ended closed session at 11:28 p.m.

**ACTION TAKEN**

Chairman Dunbar stated that there was no reportable action taken in closed session.

**Public Comments**

There were no public comments.

**Adjournment**

There being no further business, Chairman Dunbar adjourned the meeting at 11:30 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 Board of Directors of May 12, 2016, and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

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

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

**Engineering Committee**

**October 13, 2016**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was held on Thursday, October 13, 2016, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Directors were present:

MARC SERNA	Moulton Niguel Water District
MIKE MARQUIS	City of San Juan Capistrano [exit 9:40 a.m.]
DON BUNTS	Santa Margarita Water District [exit 9:38 a.m.]
RICK SHINTAKU	South Coast Water District [exit 9:44 a.m.]
MICHAEL DUNBAR	Emerald Bay Service District [exit 9:44 a.m.]
KEVIN BURTON	Irvine Ranch Water District [exit 9:18 a.m.]
DAVE REBENS DORF	City of San Clemente [arrival 8:38 a.m.] [exit 9:40 a.m.]
DENNIS CAFFERTY	El Toro Water District [exit 9:40 a.m.]

Absent:

HECTOR RUIZ	Trabuco Canyon Water District
DAVID SHISSLER	City of Laguna Beach

Staff present:

BRIAN PECK	Director of Engineering
RONI YOUNG-GRANT	Associate Engineer
CHUCK WINSOR	Engineering Consultant
BRENNON FLAHIVE	Director of Environmental Compliance [exit 9:01 a.m.]
AMBER BAYLOR	Environmental Compliance Specialist [exit 9:01 a.m.]
SEAN PEACHER	Environmental Compliance Safety Risk Manager [exit 9:20 a.m.]
DAN WHEELER	Superintendent of Operations & Maintenance [exit 9:40 a.m.]
JEANETTE COTINOLA	Procurement/Contracts Administrator

Mr. Peck called the meeting to order at 8:32 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.

**ACTION TAKEN**

No action required.

Review/Approval of Meeting Minutes

**DISCUSSION:**

Mr. Peck asked for any comments on the draft September 8, 2016 Engineering Committee Meeting minutes. No action required.

**ACTION TAKEN:**

Motion was made by Mr. Bunts and seconded by Mr. Serna to approve the September 8, 2016 Engineering meeting minutes.

Motion carried: Aye 7; Nay 0; Abstain 0; Absent 3

Bobby Young	Absent
Michael Dunbar	Aye
Kevin Burton	Aye
Rick Shintaku	Aye
Marc Serna	Aye
Mike Marquis	Aye
Dave Rebensdorf	Absent
Don Bunts	Aye
Hector Ruiz	Absent
Dennis Cafferty	Aye

### Operations Report

#### DISCUSSION:

Mr. Burror presented the Operations Report.

#### ACTION TAKEN:

No action necessary at this time.

### Ocean Outfall Dilution Study Proposal Review

(Project Committees 5 and 24)

#### DISCUSSION:

Mr. Flahive presented two proposals for the Ocean Outfall Dilution Analysis. The submitting firms were Flow Science and Michael Baker. Mr. Flahive reviewed the attributes of each proposal. Discussion ensued. The present members of the Engineering Committee recommended selection of Michael Baker. However, there were concerns regarding the scope, effort and fee for the Aliso Creek Ocean Outfall portion of the study.

#### ACTION TAKEN:

SOCWA staff is to review the scope and pricing for the Aliso Creek Ocean Outfall study with Michael Baker. SOCWA staff is to update the Engineering Committee on those findings.

### Davit Base Installations and Removals Proposal Review

(Project Committees 2, 15 and 17)

#### DISCUSSION:

Mr. Peacher discussed the scope of the davit base installation and removal project. Mr. Peacher noted that the RFP had been sent to six different firms. A single proposal was received from Pacific Rim. Discussion ensued. Several Engineering Committee members expressed concern that only one proposal had been received. There was also uncertainty regarding how the costs were to be allocated.

#### ACTION TAKEN

SOCWA staff was requested to provide a cost allocation at the next Engineering Committee meeting. SOCWA staff is also to check with one or more general contractors to verify the pricing proposed by Pacific Rim.

### J.B. Latham Treatment Plant Facility Improvements Packages A/C Construction Project Review

(Project Committee 2)

Mr. Peck noted that the J. B. Latham Treatment Plant Facilities Improvement Packages A/C construction project should be completed in late January 2016.

Mr. Peck presented one change order to the Gateway Pacific contract. Change Order No. 33 involved the replacement of the primary sedimentation basin sludge collector drive circuit breakers from 3 amps to 7 amps. The 3 amp size had been incorrectly identified on the as-built drawings. The cost of Change Order No.33 is \$2,769.27.

**ACTION TAKEN:**

The present Project Committee No. 2 members recommended Change Order 33 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 and Regional Treatment Plant Foul Air System Evaluation Proposal Review

(Project Committees 2 and 17)

**DISCUSSION:**

Mr. Peck noted that three proposals had been received for the Foul Air System Evaluation. The submitting firms were CH2M, DHK Engineering, and Hazen and Sawyer. Discussion ensued. The Engineering Committee recommended award to DHK Engineering based on that firms prior work experience with odor control systems in south Orange County.

**ACTION TAKEN:**

The Engineering Committee recommended award of contract for the J. B. Latham and Regional Treatment Plant Foul Air System Evaluation to DHK Engineering.

Regional Treatment Plant Switchgear and Cogeneration Upgrade Project Update

(Project Committee 17)

**DISCUSSION:**

Mr. Peck noted the ongoing difficulties of getting the approved plans for the new service from Southern California Edison (SCE). The SCE planner has approved the plans (SOCWA, Butier, and Pacific Hydrotech all have copies). However, the SCE inspector indicates that he has not received the approved plan from the SCE planner. This is preventing work from proceeding in the field. SOCWA staff has asked the SCE account representative to help resolve this situation.

**ACTION TAKEN:**

No action necessary at this time.

Coastal Treatment Export Sludge System Project Update

(Project Committee 15)

**DISCUSSION:**

Mr. Peck indicated that Dudek was currently working on the preparation of the County of Orange Encroachment Permit application as well as preparing the materials for the special conditions of the Coastal Development Permit. Mr. Peck noted a meeting had been held with the United States Fish and Wildlife Service (USFWS). The USFWS staff was insistent that the new sludge line be moved further inland to allow the natural meandering of Aliso Creek. TetraTech is preparing a submittal that shows that the alignment was selected based on an evaluation of creek erosion.

**ACTION TAKEN:**

No action necessary at this time.

Regional Treatment Plant AWT No.2 Filter Upgrade Final Design Proposal Review

(Project Committee 17)

**DISCUSSION:**

Mr. Peck indicated that this item was for Project Committee 17 Liquids (Moulton Niguel Water District) only. Mr. Peck presented the three proposals for the project. Discussion ensued. Mr. Serna indicated that he found Carollo Engineers to be the most qualified of the proposing firms. However, he felt that the hours and fees submitted by all three firms were higher than necessary for the proposed work. Mr. Serna requested that SOCWA review the scope, pricing and fees with Carollo Engineers prior to submitting a recommendation to the Board of Directors.

**ACTION TAKEN:**

The Engineering Committee recommended award of contract for the Regional Treatment Plant AWT No.2 Filter Upgrade to Carollo Engineers pending review of scope, pricing and fees with Carollo.

Adjournment

There being no further business, Mr. Peck adjourned the meeting at 10:03 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 October 13, 2016 and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

**Finance Committee**

**August 30, 2016**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on Tuesday, August 30, 2016 at 10:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Executive Committee were present:

JOONE LOPEZ	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	Clerk of the Board
JIM BURROR	Director of Operations

Also Present:

NEELY SHAHBAKHI	El Toro Water District
GARY MORISHITA	Santa Margarita Water District
ERICA CASTILLO	Santa Margarita Water District

Chairman Erdman called the meeting to order at 10:30 a.m. and welcomed everyone present.

**Approval of Minutes**

**ACTION TAKEN**

Motion was made by Director Adjarian and seconded by Director Ferons to approve the May 17, 2016 and June 21, 2016, meeting minutes.

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

**Old Business**

None

**Approval of Financial Matters**

**ACTION TAKEN**

Motion was made by Director Erdman and seconded by Director Ferons to ratify the Summary of Disbursements as an update to the previous action taken by the Finance

Committee in the amount of \$6,936,827 for the period of June 1, 2016 through June 30, 2016, and to receive and file the June 30, 2016 Financial Report (preliminary).

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

Review of Management Discussion and Analysis FY2015-16 Year End

**ACTION TAKEN**

There being no objection Chairman Erdman directed that the report be received and filed.

Review Report from the General Manager RE: Selection of Asset Valuation Firm

**ACTION TAKEN**

Information item, no action required.

Review Report from General Manager RE: Recommendation for Selection of an Audit Firm for the FY2015-16 SOCWA Audit

**ACTION TAKEN**

Motion was made by Director Ferons and seconded by Director Miller to recommend to the SOCWA Board of Directors the selection of Davis Farr LLP as the SOCWA Auditor for a one (1) year audit period with a two (2) year renewal option as evaluated by the SOCWA Finance Committee; and authorize the General Manager to enter into a contract with Davis Farr LLP for the FY 2015-16 Audit with terms acceptable to SOCWA.

Motion carried:           Aye 6; Nay 0; Abstain 0; Absent 0  
Director Lopez           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 12:10 p.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 August 30, 2016, and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

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



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

**Finance Committee**

**October 25, 2016**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on Tuesday, October 25, 2016 at 10:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Executive Committee were present:

MATT COLLINGS	Moulton Niguel Water District
TONI ISEMAN	City of Laguna Beach [exit 10:35 a.m.]
DENNIS ERDMAN	South Coast Water District
RAY MILLER	City of San Juan Capistrano

Absent:

DAN FERONS	Santa Margarita Water District
FRED ADJARIAN	El Toro Water District

Staff Present:

BETTY BURNETT	General Manager
MARY CAREY	Finance Controller
TERI NOSON	Clerk of the Board
BRENNON FLHAIVE	Director of Environmental Compliance
JIM BURROR	Director of Operations

Also Present:

GARY MORISHITA	Santa Margarita Water District
ERICA CASTILLO	Santa Margarita Water District
TREVOR AGRELIUS	Moulton Niguel Water District

Chairman Erdman called the meeting to order at 9:40 a.m. and welcomed everyone present.

**Public Comments**

No public comments were received.

**Review of FY 2015-16 Use Audit**

Ms. Burnett provided a brief introduction of the FY2015-16 Use Audit. Ms. Carey reviewed the Use Audit as submitted. An open discussion ensued.

**ACTION TAKEN**

The Chair asked each agency to respond to the request of staff for input and questions on the Use Audit, with questions having been submitted by MNWD to date. Staff will prepare responses and schedule the Use Audit for consideration of approval by the Finance Committee at the next meeting.

**FY 2014-15 Audit Report**

**ACTION TAKEN**

The Finance Committee received the report of staff to the effect that the Finance Committee had taken action on August 30, 2016 to recommend to the Board of Directors the

approval of the FY 2014-2015 Audit as prepared by Davis Farr, and that due to other matters, the Board had received the Draft Audit but did not yet take action to approve it; therefore, the Finance Committee concurred in the recommendation of staff to add the recommendation of the Finance Committee for the approval of the FY 2014-15 Audit on the November 3, 2016 Board Meeting Agenda.

**Adjournment**

There being no further business, Chairman Erdman adjourned the meeting at 11:10 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 October 25, 2016, and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

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

# Agenda Item

**Legal Counsel Review:** N/A

**Meeting Date:** January 12, 2016

**TO:** Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Mary Carey, Finance Controller  
**SUBJECT:** Approval of Financial Matters – October 31<sup>st</sup> thru December 31, 2016

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## Summary/Discussion

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

- a) Summary of Disbursements
  - For Months of October, November and December 2016 (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
- c) Schedule of Cash and Investments (Exhibit C)
- d) Capital Schedule (Exhibit D)
  - Capital Projects – Graph (Exhibit D-1)
- e) Budget vs. Actual Expenses:
  - Operations and Environmental Summary (Exhibit E-1)
  - Residual Engineering, after transfer to Capital (Exhibit E-2)
  - Administration (Exhibit E-3)
  - Information Technology (IT) (Exhibit E-4)

## Fiscal impact

During Q3, October, November and December 2016, disbursements were as follows:

- October disbursements totaled, \$1,928,670
- November disbursements totaled, \$2,701,800
- December disbursements totaled, \$2,288,019

The amounts are summarized by Project Committee in the attached Exhibit A.

## Recommendation

Staff recommends the Board of Directors:

- 1) Ratify the Summary of Disbursements for the period from September 1, 2016 through December 31, 2016 (attached as Exhibit A).
- 2) 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)

**South Orange County Wastewater Authority**  
**Summary of Disbursements for 2nd Quarter 2016**  
 Staff Recommendation of Fiscal Matters

	Q2				Total Q2
	Sept	Oct	Nov	Dec	
General Fund	(340,695)	(454,678)	(465,317)	(441,478)	(1,361,472)
PC 2 - Jay B. Latham Plant	(631,711)	(423,741)	(714,635)	(556,213)	(1,694,589)
PC 3 - SOCWA Plant/PCA AWT	(218,435)	(3,723)	(135,466)	0	(139,189)
PC 5 - San Juan Creek Ocean Outfall	(15,217)	(50,327)	(33,545)	(154,825)	(238,698)
PC 8 - Pretreatment Proram	(6,683)	(7,231)	(6,688)	(7,178)	(21,097)
PC 12 SO - Water Reclamation Permits	(2,485)	(4,232)	(7,770)	(114,089)	(126,090)
PC 15 - Coastal Treatment Plant/AWT	(624,722)	(346,312)	(233,715)	(186,359)	(766,386)
PC 17 - Joint Regional Wastewater Reclamation	(600,755)	(623,978)	(1,086,565)	(681,904)	(2,392,448)
PC 21 - Effluent Transmission Main	(337)	(503)	(1,223)	(434)	(2,160)
PC 24 - Aliso Creek Ocean Outfall	(19,317)	(13,944)	(16,876)	(145,540)	(176,360)
<b>Total</b>	<b>(2,460,356)</b>	<b>(1,928,670)</b>	<b>(2,701,800)</b>	<b>(2,288,019)</b>	<b>(6,918,489)</b>

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

	Sept	Oct	Nov	Dec
CASH IN BANK: (BEGINNING BAL.)	\$ 288,037	\$ 593,965	\$ 2,703,299	\$ 893,031
L.A.I.F. FUNDS: (BEGINNING BAL.)	10,798,050	8,298,049	12,857,149	12,107,149
VOIDS & ADJUSTMENTS	(\$173)			
RECEIPTS:	\$268,057	8,597,104	141,531	2,759
FUND REQUIREMENTS: BILLS FOR CONSIDERATION	(\$2,460,356)	(1,928,670)	(2,701,800)	(2,288,019)
(a)	<b>\$ 8,893,614</b>	<b>\$ 15,560,448</b>	<b>\$ 13,000,180</b>	<b>\$ 10,714,919</b>

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.

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**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.

(a) Presented in Nov. 3rd Board of Directors meeting materials.

**South Orange County Wastewater Authority  
Schedule of Cash and Investments**

	Sept	Oct	Nov	Dec	
MVA	\$ 253,410	\$ 2,383,538	\$ 146,569	\$ 13,328	(A)
A/P Checking	54,943	50,768	489,709	752,842	(B)
Payroll Checking	285,612	268,994	256,753	641,601	(C)
State LAIF	8,298,049	12,857,149	12,107,149	9,307,149	(D)
<b>Total Cash in Bank</b>	<b>8,892,014</b>	<b>15,560,448</b>	<b>13,000,180</b>	<b>10,714,919</b>	
Petty Cash	1,600	1,600	1,600	1,600	(E)
<b>Total Operating Cash</b>	<b>8,893,614</b>	<b>15,562,048</b>	<b>13,001,780</b>	<b>10,716,519</b>	
OPEB Trust	3,573,413	3,630,393	3,672,393	3,714,393	(F)
<b>Total Cash and Investments</b>	<b>\$ 12,467,027</b>	<b>\$ 19,192,442</b>	<b>\$ 16,674,173</b>	<b>\$ 14,430,913</b>	

- 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  
December 31, 2016**

<b>FY 2016-17 Budget vs. Actual Spending</b>						
<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	982,208	4,229,772	18.8%	3,609,246	3,609,246
PC 3A	0	355,896	(355,896)	0.0%	0	0
PC 5-San Juan Creek Outfall	414,437	19,410	395,027	4.7%	135,695	135,695
PC 15-Coastal	3,149,813	714,505	2,435,308	22.7%	1,530,375	1,138,559
PC 17-Regional	7,551,483	1,776,941	5,774,542	23.5%	3,737,217	3,737,217
PC 21 Effluent Transmission	159,719	287	159,432	0.2%	55,347	55,347
PC 24 Aliso Creek Outfall	0	472	(472)		0	0
<b>Total Large Capital</b>	<b>16,487,432</b>	<b>3,849,719</b>	<b>12,637,713</b>	<b>23.3%</b>	<b>9,067,880</b>	<b>8,676,064</b>
Non-Capital Engineering	891,500	79,876	811,624	9.0%	465,533	465,533
Small Internal Capital	1,254,100	379,738	874,362	30.3%	627,050	627,050
<b>Total Capital</b>	<b>18,633,032</b>	<b>4,309,333</b>	<b>14,323,699</b>	<b>23.1%</b>	<b>10,160,463</b>	<b>9,768,647</b>

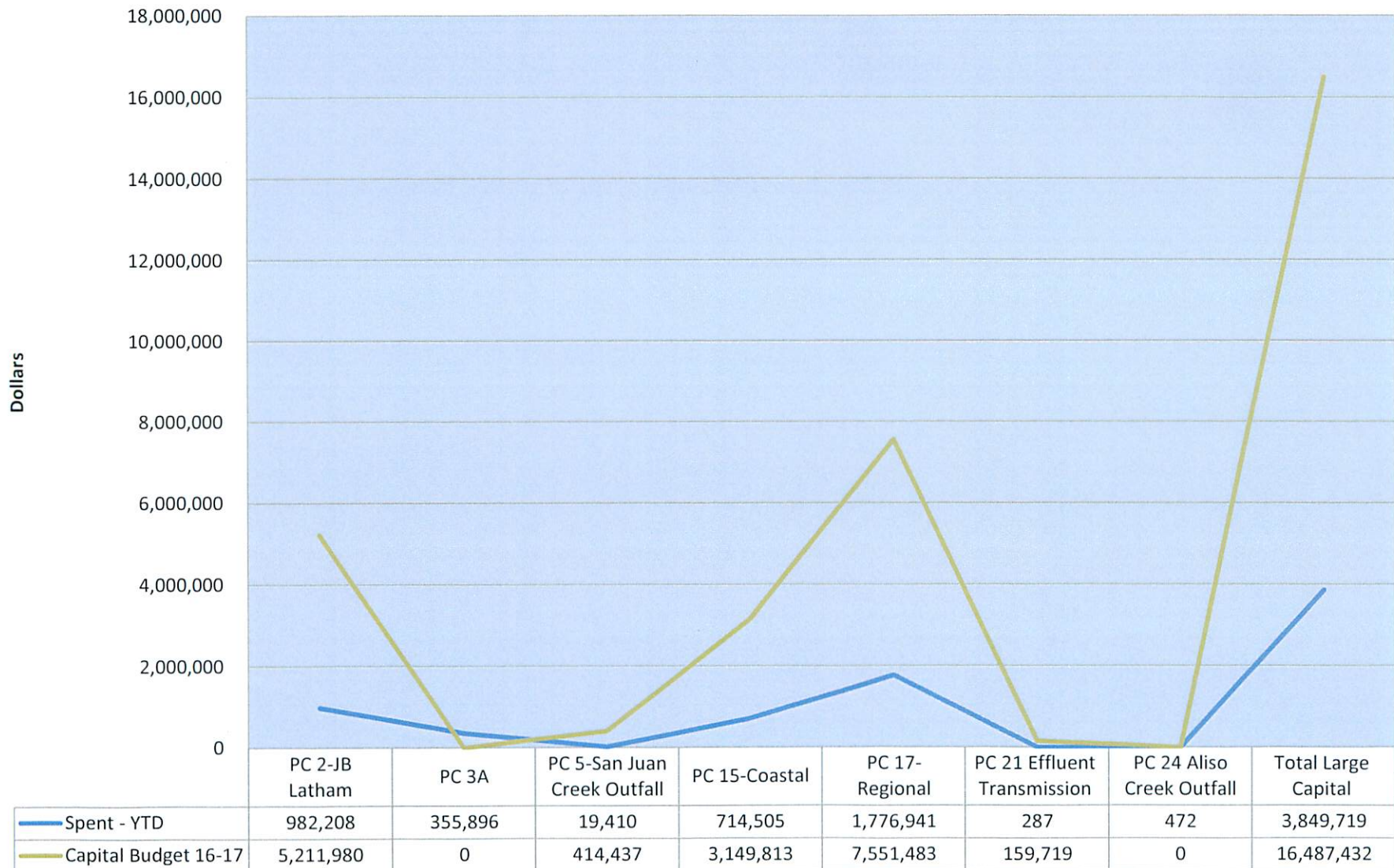
(1) Expenditures included in prior year, 2015-16 budget.

(2) PC 15 Q1 Capital Billing was paid by MNWD, however, MNWD Q2 PC 15 billing is still outstanding, \$391,816.

**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 12/31/2016



**South Orange County Wastewater Authority**  
**O & M & Environmental, Safety Costs Summary**  
**Year-to-Date as of December 31, 2016**

	FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe				
**5000-**-**-** Regular Salaries-O&M	4,249,384	1,937,817	2,311,567	45.6%
**5001-**-**-** Overtime Salaries-O&M	79,080	60,426	18,654	76.4%
**5306-**-**-** Scheduled Holiday Work	50,700	15,238	35,462	30.1%
**5401-**-**-** Fringe Benefits IN to PC's & Depts.	3,017,080	1,375,850	1,641,230	45.6%
**5700-**-**-** Standby Pay	137,588	33,800	103,788	24.6%
Total Payroll Costs	7,533,832	3,423,131	4,110,701	45.4%

(1)

Other Expenses

**5002-**-**-** Electricity	1,809,012	663,390	1,145,622	36.7%
**5003-**-**-** Natural Gas	167,304	64,340	102,964	38.5%
**5004-**-**-** Potable & Reclaimed Water	59,208	26,020	33,188	43.9%
**5005-**-**-** Co-generation Power Credit	(450,004)	(173,160)	(276,844)	38.5%
**5006-**-**-** Chlorine/Sodium Hypochlorite	542,404	219,564	322,840	40.5%
**5007-**-**-** Polymer Products	646,504	226,301	420,203	35.0%
**5008-**-**-** Ferric Chloride	251,800	122,976	128,824	48.8%
**5009-**-**-** Odor Control Chemicals	167,404	61,793	105,611	36.9%
**5010-**-**-** Other Chemicals - Misc.	5,000	0	5,000	0.0%
**5011-**-**-** Laboratory Services	35,700	23,171	12,529	64.9%
**5012-**-**-** Grit Hauling - 21A	113,200	42,828	70,372	37.8%
**5013-**-**-** Landscaping	160,000	119,101	40,899	74.4%
**5014-**-**-** Engineering - Misc.	335,000	102,475	232,525	30.6%
**5015-**-**-** Management Support Services	294,024	14,650	279,374	5.0%
**5016-**-**-** Audit - Environmental	500	0	500	0.0%
**5017-**-**-** Legal Fees	88,004	468	87,536	0.5%
**5018-**-**-** Public Notices/ Public Relations	500	0	500	0.0%
**5019-**-**-** Contract Services Misc. - 29	270,408	94,070	176,338	34.8%
**5021-**-**-** Small Vehicle Expense - 31A	19,444	11,119	8,325	57.2%
**5022-**-**-** Miscellaneous Expense	16,804	3,664	13,140	21.8%
**5023-**-**-** Office Supplies - All	33,604	18,189	15,415	54.1%
**5024-**-**-** Petroleum Products	58,400	13,484	44,916	23.1%
**5025-**-**-** Uniforms	34,408	18,202	16,206	52.9%
**5026-**-**-** Small Vehicle Fuel - 37A	33,704	7,703	26,001	22.9%
**5027-**-**-** Insurance - Property/Liability	110,188	118,022	(7,834)	107.1%
**5028-**-**-** Small Tools & Supplies	63,128	28,536	34,592	45.2%
**5030-**-**-** Trash Disposal	4,808	1,683	3,125	35.0%
**5031-**-**-** Safety Supplies	91,500	46,605	44,895	50.9%
**5032-**-**-** Equipment Rental	7,204	40	7,164	0.6%
**5033-**-**-** Recruitment	0	405	(405)	0.0%
**5034-**-**-** Travel Expense/Tech. Conferences	40,016	8,004	32,012	20.0%
**5035-**-**-** Training Expense	62,496	22,716	39,780	36.3%
**5036-**-**-** Laboratory Supplies	75,508	28,679	46,829	38.0%
**5037-**-**-** Office Equipment	21,404	6,323	15,081	29.5%
**5038-**-**-** Permits	488,020	446,267	41,753	91.4%
**5039-**-**-** Membership Dues/Fees	12,012	8,612	3,400	71.7%
**5040-**-**-** Natural Gas - 11-EPS - PC 5	396	0	396	0.0%
**5041-**-**-** Electricity - 10-EPS - PC 5	31,500	0	31,500	0.0%
**5042-**-**-** Contract Services - 29-EPS - PC 5	4,104	0	4,104	0.0%
**5044-**-**-** Offshore Monitoring - 20A	40,008	12,642	27,366	31.6%
**5045-**-**-** Offshore Biochemistry - 20B	0	11	(11)	0.0%
**5046-**-**-** Effluent Chemistry - 20C	52,004	13,786	38,218	26.5%
**5047-**-**-** Access Road Expenses	45,400	8,787	36,613	19.4%

(2)

(3)

(4)

(5)

(6)



**South Orange County Wastewater Authority  
O & M & Environmental, Safety Costs Summary  
Year-to-Date as of December 31, 2016**

Exhibit E-1

	FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended		
**-5048-**-**-**	Storm Damage	18,600	0	18,600	0.0%	
**-5049-**-**-**	Biosolids Disposal - 21B	1,524,604	533,342	991,262	35.0%	
**-5050-**-**-**	Contract Services Generators - 29A	19,704	17,942	1,762	91.1%	(7)
**-5052-**-**-**	Janitorial Services	50,008	8,662	41,346	17.3%	
**-5053-**-**-**	Contract Serv - Digester Cleaning - 29E	0	0	0	0.0%	
**-5054-**-**-**	Diesel Truck Maint - 31B	29,512	18,285	11,227	62.0%	(8)
**-5055-**-**-**	Diesel Truck Fuel - 37B	12,200	3,259	8,941	26.7%	
**-5056-**-**-**	Maintenance Equip. & Facilities (Solids) 41-A	311,500	116,209	195,291	37.3%	
**-5057-**-**-**	Maintenance Equip. & Facilities (Liquids) 41-B	530,400	281,824	248,576	53.1%	(9)
**-5058-**-**-**	Maintenance Equip. & Facilities (Common) 41-C	60,300	50,342	9,958	83.5%	(10)
**-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen) 41-D	158,500	39,690	118,810	25.0%	
**-5060-**-**-**	Maintenance Equip. & Facilities (AWT) 41-E	57,600	41,799	15,801	72.6%	(11)
**-5061-**-**-**	Mileage	4,952	2,388	2,564	48.2%	
**-5067-**-**-**	Port Cleaning	0	0	0	0.0%	
**-5068-**-**-**	MNWD Potable Water Supplies & Svcs.	23,996	6,214	17,782	25.9%	
**-5069-**-**-**	Misc-Capital-Dilution & Metering Study	65,004	0	65,004	0.0%	
**-5077-**-**-**	IT Direct	150,004	77,403	72,601	51.6%	(12)
17-5101-01-00-00	Employee Recognition	0	625	(625)	0.0%	
**-5105-**-**-**	Co-Generation Power Credit - Offset	450,004	173,160	276,844	38.5%	
17-5302-01-03-00	Longevity Bonus	0	2,600	(2,600)	0.0%	
**-5303-**-**-**	Group Insurance Waiver	0	3,260	(3,260)	0.0%	
**-5305-**-**-**	Medicare Tax Payments for Employees	0	6,866	(6,866)	0.0%	
**-5309-**-**-**	Operating Leases	7,004	2,535	4,469	36.2%	
**-5705-**-**-**	Monthly Car Allowance	37,320	16,814	20,506	45.1%	
**-5802-**-**-**	Shipping/Freight	0	409	(409)	0.0%	
**-6500-**-**-**	IT Allocations in to PC's & Depts.	577,252	232,989	344,263	40.4%	
	Total Other Expenses	9,930,492	4,068,080	5,862,412	41.0%	
	<b>Total Expenses</b>	<b>17,464,324</b>	<b>7,491,210</b>	<b>9,973,114</b>	<b>42.9%</b>	

- (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 December 31, 2016**

Exhibit E-2

		FY 2016-17 Original Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
**-5000-**-**-00	Regular Salaries-O&M	103,896	49,062	54,834	47.2%
**-5401-**-**-00	Fringe Benefits IN to PC's & Depts.	73,764	34,834	38,930	47.2%
	Total Payroll Costs	177,660	83,896	93,764	47.2%
Other Expenses					
**-5014-**-**-00	Engineering - Misc.	1,200	0	1,200	0.0%
01-5015-03-00-00	Management Support Services	39,996	0	39,996	0.0%
01-5022-03-00-00	Miscellaneous Expense	11,004	0	11,004	0.0%
01-5039-03-00-00	Membership Dues/Fees	1,200	457	743	38.1%
01-5061-03-00-00	Mileage	396	0	396	0.0%
01-5203-03-00-00	Workers Compensation Ins.	396	0	396	0.0%
01-5302-03-00-00	Longevity Bonus	0	7,363	(7,363)	0.0%
01-5309-03-00-00	Operating Leases	15,000	8,361	6,639	55.7%
01-5705-03-00-00	Monthly Car Allowance	5,820	2,100	3,720	36.1%
01-5802-03-00-00	Shipping/Freight	300	0	300	0.0%
01-6500-03-00-00	IT Allocations in to PC's & Depts.	44,028	9,543	34,485	21.7%
	Total Other Expenses	119,340	27,824	91,516	23.3%
	<b>Total Expenses</b>	<b>297,000</b>	<b>111,721</b>	<b>185,279</b>	<b>37.6%</b>

**South Orange County Wastewater Authority  
Budget vs. Actual Comparison- Administration  
For the Period Ended December 31, 2016**

Exhibit E-3

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
<b>Salary and Fringe</b>					
01-5401-04-00-00	Fringe Benefits IN to PC's & Depts.	484,884	235,797	249,087	48.6%
01-6000-04-00-00	Regular Salaries-Admin & IT	682,932	332,109	350,823	48.6%
01-6001-04-00-00	Overtime Salaries-Admin & IT	19,308	9,208	10,100	47.7%
	Total Payroll Costs	1,187,124	577,115	610,009	48.6%
<b>Other Expenses</b>					
01-5018-04-00-00	Public Notices/ Public Relations	15,996	0	15,996	0.0%
01-5027-04-00-00	Insurance - Property/Liability	39,720	28	39,692	0.1%
01-5037-04-00-00	Office Equipment	8,004	0	8,004	0.0%
01-6101-04-00-00	Recruitment & Employee Relations	12,000	6,419	5,581	53.5%
01-6102-04-00-00	Subscriptions	996	503	493	50.5%
01-6200-04-00-00	Management Support Services	215,004	69,069	145,935	32.1%
01-6201-04-00-00	Audit	35,004	16,000	19,004	45.7%
01-6202-04-00-00	Legal	62,004	9,894	52,110	16.0%
01-6203-04-00-00	Outside Services	2,004	1,132	872	56.5%
01-6204-04-00-00	Postage	1,896	1,323	573	69.8%
01-6220-04-00-00	Board of Directors - Fees	0	0	0	0.0%
01-6223-04-00-00	Office Supplies - Admin	9,996	1,776	8,220	17.8%
01-6234-04-00-00	Memberships & Trainings	96,108	8,442	87,666	8.8%
01-6239-04-00-00	Travel & Conference	23,904	7,641	16,263	32.0%
01-6240-04-00-00	Scholarship Sponsorship	996	1,000	(4)	100.4%
01-6310-04-00-00	Miscellaneous	15,000	3,593	11,407	24.0%
01-6311-04-00-00	Mileage	708	306	402	43.2%
01-6317-04-00-00	Contract Services Misc	1,800	1,781	19	99.0%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	122,172	36,199	85,973	29.6%
01-6601-04-00-00	Shipping/Freight	0	952	(952)	0.0%
01-6705-04-00-00	Monthly Car Allowance	12,000	6,000	6,000	50.0%
	Total Other Expenses	675,312	172,058	503,254	25.5%
	<b>Total Expenses</b>	1,862,436	749,173	1,113,263	40.2%



**South Orange County Wastewater Authority  
Budget vs. Actual Comparison-IT  
For the Period Ended December 31, 2016**

Exhibit E-4

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended	
<b>Salary &amp; Fringe</b>						
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	128,628	28,074	100,554	21.8%	
<b>Other Expenses</b>						
01-5028-05-00-00	Small Tools & Supplies	504	0	504	0.0%	
01-5037-05-00-00	Office Equipment	6,000	0	6,000	0.0%	
01-5061-05-00-00	Mileage	348	0	348	0.0%	
01-6200-05-00-00	Management Support Services	0	15,392	(15,392)	0.0%	(1)
01-6234-05-00-00	Memberships & Trainings	1,848	0	1,848	0.0%	
01-6239-05-00-00	Travel & Conference	2,496	0	2,496	0.0%	
01-6300-05-00-00	Software Maintenance Agreements	57,144	30,964	26,180	54.2%	
01-6301-05-00-00	Hardware Maintenance Agreements	12,912	11,803	1,109	91.4%	
01-6302-05-00-00	Cloud Subscriptions (Internet)	9,516	0	9,516	0.0%	
01-6303-05-00-00	Telecommunications	109,020	59,801	49,219	54.9%	
01-6305-05-00-00	IT Professional Services	241,500	90,989	150,511	37.7%	
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	34,896	17,999	16,897	51.6%	
01-6307-05-00-00	Small Software Purchases (<\$5k)	48,540	0	48,540	0.0%	
01-6309-05-00-00	Operating Leases	44,004	21,510	22,494	48.9%	
01-6310-05-00-00	Miscellaneous	996	0	996	0.0%	
01-6312-05-00-00	Computer & Photocopy Supplies	252	2,199	(1,947)	872.4%	
01-6601-05-00-00	Shipping/Freight	252	0	252	0.0%	
	Total Other Expenses	570,228	250,657	319,571	44.0%	
	Total Expenses before Allocation	<b>698,856</b>	<b>278,731</b>	<b>420,125</b>	<b>39.9%</b>	
<b>IT Allocations (Out) to PC's &amp; Depts</b>						
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(698,856)	(278,731)	(420,125)	39.9%	
		(698,856)	(278,731)	(420,125)	39.9%	
		<b>(698,856)</b>	<b>(278,731)</b>	<b>(420,125)</b>	<b>39.9%</b>	

(1) Employee resigned, contractor is temporary replacement.

# Agenda Item

**Meeting Date:** January 12, 2016

**TO:** Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Jim Burror, Director of Operations  
**SUBJECT:** November 2016 Operations Report

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## **Summary/Discussion**

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

1) Monthly Operational Report

A six (6) page overview and comparison of member agency usage of the facilities. This includes influent parameters and recycled water production. The pages also include ongoing calculations 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 member agencies that are planning reuse projects and may wish to utilize water currently being discharged to the ocean.

3) Beach Ocean Monitoring Report

4) Recycled Water Report

5) Pretreatment Report

## **Fiscal impact**

No change

## **Recommendation**

Staff recommends receiving and filing the above mentioned operational reports.

# Monthly Operational Report



# SOCWA Operational Report November, 2016

## 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)	2.62	7.50	6.80	0.95	17.87
Effluent (mgd)	2.77	3.65	6.80	1.88	15.09
Peak Flow (mgd)	2.92	18.63	10.40	6.59	38.54
Influent BOD (mg/l)	263	275	238	287	
Influent TSS (mg/l)	369	301	494	321	
Effluent BOD (mg/l)	4.9	2.1	7.0	8.4	
Effluent TSS (mg/l)	6.7	4.3	11.4	9.7	
Effluent Turbidity (NTU)	3.4	2.6	5.8	6.7	

## Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.45	3.85		4.30
Days of Operation (days)	19	30		
Total Flow (million gallons)	13.5	115.6		129.1
Plant Irrigation (million gallons)	0.20	0.00	0.36	
AWT Time Online (%)	99.2	97.6		

### 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 November, 2016 (cont'd)

## Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		764.3	0.0	764.3
Nursery Products (tons)		247.4	474.8	722.2
Prima Deshecha (tons)		244.7	169.1	413.8
Other: _____ (tons)		0.0	0.0	0.0
Total Processed (tons)		1,256.4	643.9	1,900.3

## Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	180	517	1,204	1,901
Corrective Maintenance	79	189	366	634

## Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	1	1	0	2
Member Agency	0	0	0	0
Residents	0	0	0	0
Others	15	16	30	61
Tours #/Visitors	0	1	0	1

## Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	12.0	41.9	27.7	81.6

## Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.2	27.1	9.2	36.4
Power (kWh)	230,978	100,603	491,010	822,591
Natural Gas (Dth)	261	NA	5,468	5,729
Digester Gas (scfm)		8,992,545	0(1)	8,992,545
Digester Gas Power Savings		\$30,757.16		

(1) Engine removed for construction project.

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 November, 2016 (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	1.577	58.31%				1.58
EBSB	0.046	1.71%				0.05
SCWD	1.081	39.98%		1.659	24.41%	2.74
MNWD	0.000	0.00%	7.50	1.400	20.60%	8.90
CSJC				2.157	31.73%	2.16
SMWD				1.581	23.26%	1.58
Total	2.704	100.00%	7.50	6.797	100.00%	17.00

## Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.58	15.47%	1.58	
EBSB				0.05	0.45%	0.05	
SCWD	1.66	16.56%		1.06	10.43%	2.72	Includes Desalters
MNWD	1.40	13.98%		3.65	35.76%	5.05	
ETWD				2.85	27.92%	2.85	Direct Outfall Only
CSJC	2.16	21.54%				2.16	Incudes Desalter
SMWD	2.55	25.47%				2.55	Includes Chiquita
CSC	2.25	22.45%				2.25	Direct Outfall Only
IRWD				1.02	9.97%	1.02	Direct Outfall Only
Total	10.02	100.00%	10.07	10.19	100.00%	20.21	

# SOCWA Operational Report November, 2016 (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%	2.157	31.73%	2.02	29.05%
MNWD	3.00	23.08%	1.40	16.69%	1.400	20.60%	1.44	20.71%
SCWD	3.75	28.85%	2.00	23.84%	1.659	24.41%	1.68	24.16%
SMWD	2.25	17.31%	1.80	21.45%	1.581	23.26%	1.81	26.07%
Total	13.00	100.00%	8.39	100.00%	6.797	100.00%	6.95	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%	6,116	29.10%	4,795	20.94%
MNWD	8,340	21.62%	5,270	20.36%	4,717	22.44%	5,794	25.30%
SCWD	7,715	20.00%	5,304	20.49%	4,856	23.11%	4,999	21.83%
SMWD	10,946	28.38%	6,695	25.86%	5,327	25.35%	7,312	31.93%
Total	38,573	100.00%	25,889	100.00%	21,016	100.00%	22,900	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%	2.25	22.45%		
CSJC	11.08%	3.83	21.87%	2.16	21.54%	2.16	31.73%
MNWD	15.51%	2.42	13.82%	1.40	13.98%	1.40	20.60%
SCWD	12.47%	2.67	15.25%	1.66	16.56%	1.66	24.41%
SMWD	44.32%	5.59	31.92%	2.55	25.47%	1.58	23.26%
Total	100.00%	17.51	100.00%	10.02	100.00%	6.80	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 November, 2016 (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	1.969	17.75%		
CSJC	2.149	19.37%	2.02	29.05%
MNWD	1.755	15.82%	1.44	20.71%
SCWD	1.682	15.16%	1.68	24.16%
SMWD	3.537	31.89%	1.81	26.07%
Total	11.090	100.00%	6.95	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%	1.577	58.31%	1.740	57.75%
EBS	0.20	2.99%	0.061	1.89%	0.046	1.71%	0.049	1.64%
SCWD	2.00	29.85%	1.213	37.51%	1.081	39.98%	1.224	40.61%
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%	2.704	100.00%	3.014	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	0.16%	0.0119	0.16%
EBS	0.00044	0.005%	0.0000	0.0004	0.0004	0.00%	0.0003	0.00%
SCWD	0.00871	0.103%	0.0000	0.0084	0.0084	0.11%	0.0084	0.11%
ETWD	0.01719	0.204%	0.0000	0.0151	0.0151	0.20%	0.0134	0.18%
MNWD	8.40541	99.521%	7.4990	0.0581	7.5571	99.52%	7.6150	99.55%
Total	8.44583	100.000%	7.4990	0.0943	7.5933	100.00%	7.6490	100.00%

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

# SOCWA Operational Report November, 2016 (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%	143,064	13.05%	142,858	12.43%
EBSD	295	0.59%	147	0.40%	4,192	0.38%	4,072	0.35%
SCWD	4,480	8.96%	2,926	8.02%	98,104	8.95%	100,461	8.74%
ETWD	10,200	20.41%	5,903	16.17%	175,834	16.04%	161,415	14.05%
MNWD	29,395	58.82%	22,801	62.46%	675,303	61.59%	740,075	64.42%
Total	49,975	100.00%	36,505	100.00%	1,096,497	100.00%	1,148,881	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%	1.577	15.47%	1.740	24.79%
EBSD	0.780%	0.06	0.54%	0.046	0.45%	0.049	0.70%
ETWD	16.302%	2.89	25.83%	2.846	27.92%	1.990	28.35%
IRWD	15.760%	2.62	23.41%	1.016	9.97%	1.155	16.45%
MNWD	43.848%	2.96	26.45%	3.645	35.76%	1.617	23.03%
SCWD	12.310%	1.17	10.46%	1.064	10.43%	0.469	6.68%
Total	100.000%	11.19	100.00%	10.194	0.00%	7.020	100.00%

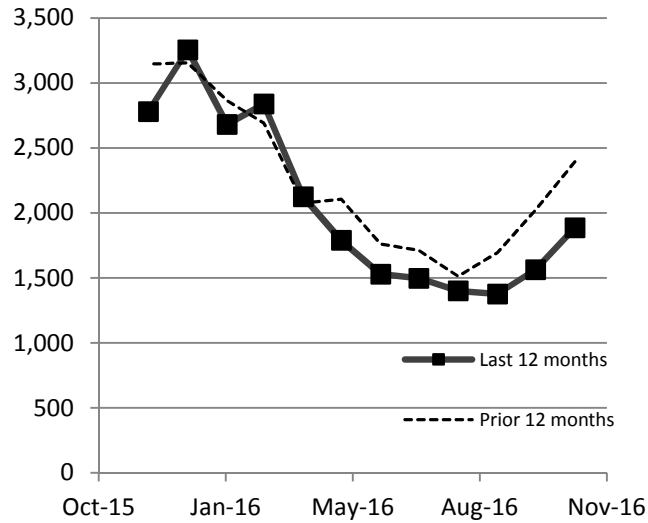
# SOCWA Ocean Outfall Discharges by Agency

## SOCWA Outfall Discharge Report November, 2016

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.58	15.47%	1.58
EBSD			0.05	0.45%	0.05
SCWD	1.66	16.56%	1.06	10.43%	2.72
MNWD	1.40	13.98%	3.65	35.76%	5.05
ETWD			2.85	27.92%	2.85
CSJC	2.16	21.54%			2.16
SMWD	2.55	25.47%			2.55
CSC	2.25	22.45%			2.25
IRWD			1.02	9.97%	1.02
<b>Total</b>	<b>10.02</b>	<b>100.00%</b>	<b>10.19</b>	<b>100.00%</b>	<b>20.21</b>
or Acre-Feet per year equivalent					22,635

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

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
Feb-16	2,681
Jan-16	3,255
Dec-15	2,780
<b>Total</b>	<b>24,715</b>





# Beach Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

November 2016

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall inches
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	MGD	
	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	MGD	MGD	MGD	
11/01/16	No Flow				2.733	8.0	3.2	<0.1	3.250	3.1	2.0	0.1	2.782	4.2	4.0	0.1	0.562	0.000	0.006	8.771	0.01
11/02/16	No Flow				1.906	8.4	3.9	<0.1	1.960	3.7	1.0	<0.1	3.029	5.9	5.0	<0.1	0.855	0.000	0.101	6.996	
11/03/16	No Flow				2.927	8.2	3.2	<0.1	3.200	1.9	<2.0	<0.1	2.598	3.5	4.0	<0.1	0.465	0.000	0.108	8.833	
11/04/16	No Flow				1.133	9.6	2.6	<0.1	2.180	3.5	<2.0	0.2	2.392	6.2	5.0	0.1	0.688	0.000	0.095	5.800	
11/05/16	No Flow				3.541	11.0	3.4	<0.1	1.730				2.417				0.855	0.001	0.100	7.789	
11/06/16	No Flow				1.971	12.6	2.4	<0.1	2.330	2.1	4.0	<0.1	3.140	12.5	7.0		0.890	0.000	0.003	7.444	
11/07/16	No Flow				2.231	8.6	3.0	<0.1	3.000	4.8	2.0	0.1	3.101	8.1	7.0	0.1	0.855	0.000	0.109	8.441	
11/08/16	No Flow				2.726	4.8	2.6	<0.1	2.410	3.9	2.0	<0.1	2.494	5.0	4.0	<0.1	0.825	0.000	0.087	7.717	
11/09/16	No Flow				2.298	4.2	3.2	<0.1	2.110	5.6	2.0	<0.1	2.347	6.1	4.0	<0.1	0.854	0.000	0.087	6.842	
11/10/16	No Flow				1.659	8.6	2.3	<0.1	2.050	4.2	3.0	0.2	2.256	4.8	3.0	0.1	0.854	0.000	0.088	6.053	
11/11/16	No Flow				2.087	8.4	2.3	<0.1	1.980	3.1	<2.0	0.1	2.721	1.2	<2.0	0.1	0.855	0.000	0.100	6.888	
11/12/16	No Flow				2.970	6.0	2.3	<0.1	2.140				2.502				0.855	0.000	0.075	7.687	
11/13/16	No Flow				2.372	9.4	2.1	<0.1	2.280	3.3	2.0	<0.1	2.736	1.2	3.0		0.838	0.000	0.113	7.501	
11/14/16	No Flow				2.298	9.8	2.8	<0.1	2.910	4.1	<2.0	<0.1	2.802	12.0	7.0	<0.1	0.855	0.001	0.106	8.117	
11/15/16	No Flow				2.527	12.0	3.4	<0.1	2.550	3.4	1.0	0.1	2.438	10.1	4.0	0.1	0.759	0.000	0.097	7.612	
11/16/16	No Flow				2.375	19.0	6.7	<0.1	2.240	5.0	2.0	0.1	2.278	5.7	8.0	0.1	0.714	0.000	0.101	6.994	
11/17/16	No Flow				1.619	21.0	5.9	<0.1	2.530	2.8	2.0	0.2	2.340	4.6	3.0	0.1	0.856	0.389	0.097	6.975	
11/18/16	No Flow				2.034	13.4	5.2	<0.1	2.630	3.2	2.0	0.1	2.973	7.2	5.0	0.1	0.855	0.445	0.115	8.197	
11/19/16	No Flow				3.140	14.0	3.8	<0.1	2.400				2.445				0.855	0.455	0.098	8.538	
11/20/16	No Flow				4.104	11.8	6.7	<0.1	4.130	3.9	3.0	<0.1	2.279	10.0	8.0		0.792	0.514	0.104	11.131	
11/21/16	No Flow				5.229	11.0	2.6	<0.1	5.060	3.8	3.0	0.1	2.468	8.9	7.0	<0.1	0.855	0.513	0.084	13.354	0.04
11/22/16	No Flow				2.988	8.2	2.7	<0.1	4.920	6.6	1.0	0.1	3.260	4.3	4.0	<0.1	0.854	0.513	0.083	11.764	0.01
11/23/16	No Flow				3.357	6.6	2.6	<0.1	4.850	3.7	1.0	0.2	2.601	8.3	4.0	<0.1	0.737	0.511	0.102	11.421	
11/24/16	No Flow				4.979	9.4	2.1	<0.1	5.110	3.1	2.0	0.1	2.328	3.8	3.0	0.1	0.802	0.512	0.093	13.022	
11/25/16	No Flow				3.299	3.6	2.3	<0.1	6.040	6.2	2.0	0.1	3.010	9.6	5.0	<0.1	0.828	0.510	0.103	12.962	
11/26/16	No Flow				3.313	5.8	3.3	<0.1	5.480				2.535				0.572	0.478	0.106	11.912	
11/27/16	No Flow				3.337	4.6	3.4	<0.1	6.320	6.6	3.0	<0.1	3.180	16.4	11.0		0.740	0.473	0.002	13.312	0.08
11/28/16	No Flow				2.875	10.4	3.3	<0.1	6.600	7.1	<2.0	0.1	3.208	7.1	3.0	0.1	0.853	0.467	0.007	13.157	
11/29/16	No Flow				3.884	11.8	4.0	<0.1	7.220	7.3	3.0	0.2	2.926	3.4	3.0	<0.1	0.854	0.467	0.003	14.500	
11/30/16	No Flow				3.482	29.2	8.1	<0.1	7.750	5.9	2.0	0.1	3.011	5.0	4.0	0.1	0.853	0.342	0.009	14.594	
AVG	No Flow				2.846	10.3	3.5	<0.1	3.645	4.3	2.1	<0.1	2.687	6.7	4.9	<0.1	0.796	0.220	0.079	9.477	0.14
TOTAL	No Flow				85.39				109.36				80.60				23.89	6.59	2.382	284.32	

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: November 2016  
 REPORT DUE: January 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: Low Tide 0829

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	11/07/16	1100	<20	<20	<3	None	None	None	None	Green	62	Clear		
S4	11/07/16	1040	9	<20	<3	None	None	None	None	Green		Clear		
S5	11/07/16	1025	<20	<20	<3	None	None	None	None	Green		Clear		
S6	11/07/16	1010	<20	<20	<3	None	None	None	None	Green		Clear		
WEST	11/07/16	1000	9	<20	2	None	None	None	None	Green		Clear		
S7	11/07/16	950	<20	<20	<3	None	None	None	None	Green		Clear		
S8	11/07/16	940	<20	9	7	None	None	None	None	Green		Clear		
S9	11/07/16	935	<20	<20	<3	None	None	None	None	Green		Clear		
ACM1	11/07/16	925	<20	<20	<3	None	None	None	None	Green		Clear		
S10	11/07/16	910	<20	<20	<3	None	None	None	None	Green		Clear		
S11	11/07/16	855	<20	9	<3	None	None	None	None	Green	62	Clear		
S12	11/07/16	840	30	9	2	None	None	None	None	Green		Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: November 2016  
 REPORT DUE: January 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 0756  
 Weather: Clear  
 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							
S3	11/14/16	1105	9	<20	<3	None	None	None	None	Green	67	Slightly Turbid		
S4	11/14/16	1045	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S5	11/14/16	1030	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S6	11/14/16	1000	<20	<20	<3	None	None	None	None	Blue		Clear		
WEST	11/14/16	955	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S7	11/14/16	950	<20	<20	<3	None	None	None	None	Green	67	Slightly Turbid		
S8	11/14/16	945	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	11/14/16	830	100	80	230	None	None	None	None	Green	65	Slightly Turbid		
ACM1	11/14/16	835	50	50	30	None	None	None	None	Green		Slightly Turbid		
S10	11/14/16	840	9	20	<3	None	None	None	None	Green		Clear		
S11	11/14/16	845	<20	9	<3	None	None	None	None	Green		Clear		
S12	11/14/16	900	9	14	8	None	None	None	None	Green	67	Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: November 2016  
 REPORT DUE: January 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 1046

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	11/22/16	1115	<20	<20	<3	None	None	None	None	Green	63	Clear		
S4	11/22/16	1100	<20	30	3	None	None	None	None	Green		Clear		
S5	11/22/16	1040	<20	<20	3	None	None	None	None	Green		Clear		
S6	11/22/16	1028	100	100	8	None	None	None	None	Green		Clear		
WEST	11/22/16	1020	200	70	60	None	None	None	None	Green	63	Clear		
S7	11/22/16	1010	40	40	12	None	None	None	None	Green		Clear		
S8	11/22/16	940	300	200	90	None	None	None	None	Green		Clear		50
S9	11/22/16	950	5,300	3,400	1,200	None	None	None	None	Green		Turbid		
ACM1	11/22/16	955	>=20,000	4,700	>=2,000	None	None	None	None	Green		Turbid	Flowing	
S10	11/22/16	910	200	100	30	None	None	None	None	Green		Clear		
S11	11/22/16	900	30	<20	3	None	None	None	None	Green		Clear		
S12	11/22/16	845	30	<20	10	None	None	None	None	Green	63	Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: November 2016  
 REPORT DUE: January 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 0737

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		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							
S3	11/28/16	1020	10	10	6	None	None	None	None	Green		Slightly Turbid		
S4	11/28/16	1010	1	40	30	None	None	None	None	Green	63	Slightly Turbid		
S5	11/28/16	1000	30	20	3	None	None	None	None	Green		Slightly Turbid		
S6	11/28/16	0940	50	<20	3	None	None	None	None	Green		Slightly Turbid		
WEST	11/28/16	0930	20	<20	8	None	None	None	None	Green		Slightly Turbid		
S7	11/28/16	0925	60	40	10	None	None	None	None	Green		Slightly Turbid		
S8	11/28/16	0920	30	30	20	None	None	None	None	Green		Slightly Turbid		
S9	11/28/16	0905	900	200	190	None	None	None	None	Green		Slightly Turbid	Flowing	30
ACM1	11/28/16	0900	2,700	460	480	None	None	None	None	Green	63	Slightly Turbid	Flowing	
S10	11/28/16	0850	30	<20	7	None	None	None	None	Green		Slightly Turbid		
S11	11/28/16	0845	200	190	52	None	None	None	None	Green		Slightly Turbid		
S12	11/28/16	0840	30	40	10	None	None	None	None	Green		Slightly Turbid		

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

## 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: November 2016

REPORT DUE: January 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 1021

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	11/02/16	<2	<2	<2	801	0	0	
A-1	Mid depth	11/02/16	<10	<10	<10				
A-2	Surface	11/02/16	<2	<2	<2	749	0	0	
A-2	Mid depth	11/02/16	<10	<10	<10				
A-3	Surface	11/02/16	<2	<2	<2	753	0	0	
A-3	Mid depth	11/02/16	<10	<10	<10				
A-4	Surface	11/02/16	<2	<2	<2	805	0	0	
A-4	Mid depth	11/02/16	<10	<10	<10				
A-5	Surface	11/02/16	<2	<2	<2	787	0	0	
A-5	Mid depth	11/02/16	<10	<10	<10				
B-1	Surface	11/02/16	<2	<2	<2	740	0	0	
B-1	Mid depth	11/02/16	<10	<10	<10				
B-2	Surface	11/02/16	<2	<2	<2	813	0	0	
B-2	Mid depth	11/02/16	<10	<10	<10				
N1	Surface	11/02/16	<2	<2	<2	831	0	0	
N2	Surface	11/02/16	<2	<2	<2	830	0	0	
N3	Surface	11/02/16	<2	<2	<2	827	0	0	
N4	Surface	11/02/16	<2	2	<2	825	0	0	
N5	Surface	11/02/16	<2	<2	<2	824	0	0	
N6	Surface	11/02/16	<2	<2	<2	822	0	0	
N7	Surface	11/02/16	<2	<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.

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.

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
SCWD	SCWD	19,200	Recycled Water	Flow control valve off of a gravity line overfilled a feed tank for the Aliso Creek Water Harvesting Project. Immediately upon discovery a manual valve was closed and the tank overflow ceased. The tank overflow started at approximately 4:20a.m. and was discovered at 7:50a.m. The overflow was corrected by 8:00a.m.	Aliso Creek	8/29/2016 by SCWD	8/29/2016

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

November 2016

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
11/01/16	6.460	13.0	6.0	<0.1	2.158	7.8	5.0	<0.1	0.650	7.6	10.4	0.1	1.731	6.4	9.0	0.1	No Flow	No Flow	11.520	0.01
11/02/16	6.600	8.9	5.5	0.2	2.559	10.3	8.0	<0.1	0.170	5.6	6.3	<0.1	1.660	6.0	6.0	0.4	No Flow	No Flow	10.800	
11/03/16	7.150	6.8	4.7	0.1	1.377	8.3	6.0	<0.1	0.040	3.6	5.8	0.2	1.699	4.8	5.0	<0.1	No Flow	No Flow	10.650	
11/04/16	6.870	8.0	5.2	0.1	2.148	10.4	8.0	<0.1	0.950	6.8	7.5	<0.1	1.618	5.6	6.0	<0.1	No Flow	No Flow	10.910	
11/05/16	6.550				1.602				0.070				1.519				No Flow	No Flow	9.320	
11/06/16	9.740				2.180				0.080				1.628				No Flow	No Flow	9.930	
11/07/16	6.900	12.5	7.3	0.2	2.140	11.3	8.0	<0.1	1.520	24.8	10.6	<0.1	1.683	4.4	9.0	0.1	No Flow	No Flow	12.340	
11/08/16	6.500	6.3	5.0	<0.1	2.490	8.3	6.0	<0.1	0.790	14.8	9.4	0.1	0.236	6.0	9.0	0.1	No Flow	No Flow	8.560	
11/09/16	6.660	10.2	6.0	0.1	2.433	7.8	6.0	<0.1	0.640	12.0	13.9	0.1	0.089	2.0	5.0	0.1	No Flow	No Flow	8.680	
11/10/16	6.560	6.2	6.8	0.1	2.212	8.1	6.0	<0.1	0.760	10.8	15.1	0.1	0.104	8.0	6.0	0.1	No Flow	No Flow	8.590	
11/11/16	6.550	8.8	5.6	0.1	2.021	10.5	8.0	<0.1	0.060	8.4	7.7	0.1	0.085	2.8	6.0	<0.1	No Flow	No Flow	7.970	
11/12/16	6.750				1.558				0.080				0.068				No Flow	No Flow	8.100	
11/13/16	6.780				2.208				0.130				0.092				No Flow	No Flow	8.730	
11/14/16	6.850	16.7	10.7	<0.1	2.097	11.5	9.0	<0.1	0.430	15.6	10.2	<0.1	0.081	3.6	9.0	<0.1	No Flow	No Flow	9.050	
11/15/16	6.630	11.2	6.3	0.1	2.067	9.6	7.0	<0.1	0.180	10.8	11.4	<0.1	0.055	6.4	10.0	<0.1	No Flow	No Flow	8.450	
11/16/16	6.510	10.0	7.8	0.1	1.917	8.2	6.0	<0.1	0.110	6.4	10.9	0.3	0.065	2.8	5.0	<0.1	No Flow	No Flow	8.830	
11/17/16	6.540	9.0	5.3	0.1	1.631	7.9	5.0	<0.1	0.070	8.8	9.6	<0.1	0.078	2.4	5.0	<0.1	No Flow	No Flow	8.510	
11/18/16	6.600	7.7	8.1	0.2	1.804	10.6	8.0	<0.1	0.120	6.8	8.2	<0.1	0.152	4.0	5.0	<0.1	No Flow	No Flow	8.500	
11/19/16	6.490				1.234				0.160				0.106				No Flow	No Flow	7.890	
11/20/16	6.580				1.790	21.6	14.0	<0.1	0.150				0.266				No Flow	No Flow	8.160	
11/21/16	6.930	13.1	9.0	<0.1	2.471	4.7	4.0	<0.1	2.700	10.4	10.5	0.1	0.499	8.8	8.0	<0.1	No Flow	No Flow	13.390	0.04
11/22/16	7.120	10.2	11.0	0.1	2.746	3.6	6.0	<0.1	3.730	16.0	11.0	<0.1	0.173	3.2	8.0	<0.1	No Flow	No Flow	12.970	
11/23/16	6.700	21.0	11.3	0.1	3.009	9.6	8.0	<0.1	1.770	6.0	10.9	<0.1	0.158	1.6	5.0	<0.1	No Flow	No Flow	11.510	0.01
11/24/16	6.590	7.7	6.8	0.2	2.112	10.6	7.0	<0.1	0.490	6.4	8.9	0.3	0.199	4.0	5.0	<0.1	No Flow	No Flow	9.310	
11/25/16	7.010	13.1	8.7	0.1	2.858				1.400	15.6	19.8	0.2	0.367	2.8	12.0	<0.1	No Flow	No Flow	11.250	
11/26/16	6.650				2.346				0.380				0.087				No Flow	No Flow	9.500	
11/27/16	7.200	17.2	11.5		2.830				1.520				0.227				No Flow	No Flow	11.870	0.08
11/28/16	7.870	13.3	7.7	0.4	3.131	11.6	9.0	<0.1	2.920	12.4	10.2	<0.1	0.409	3.2	10.0	<0.1	No Flow	No Flow	14.120	
11/29/16	7.280	10.9	8.0	0.1	3.470	9.9	7.0	<0.1	2.930	9.2	11.3	<0.1	0.186	4.0	10.0	<0.1	No Flow	No Flow	10.450	
11/30/16	6.860	8.8	6.0	0.1	2.866	11.6	8.0	<0.1	4.090	7.2	7.1	0.2	0.155	2.8	4.0	<0.1	No Flow	No Flow	12.210	
AVG	6.883	10.9	7.4	<0.1	2.249	9.7	7.2	<0.1	0.970	10.3	10.3	<0.1	0.516	4.3	7.1	<0.1	0.000	No Flow	10.069	
TOTAL	206.480				67.465				29.090				15.475				0.000	No Flow	302.070	0.14

REPORT FOR: November 2016  
 REPORT DUE: January 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 0829

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil &	Odor	Water	H2O	Water	Water	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore	Grease		Color	Temp(F)	Condition	Outlet	
S0	11/07/16	0835	9	<9	<30	None	None	None	None	Brown	65	Slightly Turbid		
S1	11/07/16	0845	<40	<40	<40	None	None	None	None	Green		Turbid		
S2	11/07/16	0830	20	20	<40	None	None	None	None	Brown		Slightly Turbid		
DSB5	11/07/16	0815	40	<40	<40	None	None	None	None	Brown		Slightly Turbid		
S3	11/07/16	0846	<40	<40	<40	None	None	None	None	Green		Turbid		
DSB4	11/07/16	0850	<40	20	<40	None	None	None	None	Green		Turbid		
S5	11/07/16	0855	20	<40	40	None	None	None	None	Green		Turbid		
DSB1	11/07/16	0900	<40	<40	<40	None	None	None	None	Green	65	Turbid		
SJC1	11/07/16	0836	200	<200	40	None	None	None	None	Brown		Slightly Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: November 2016  
 REPORT DUE: January 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 0756

Weather: Clear

COMMENTS: 2 dead birds at S-0

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Enterococcus	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	11/14/16	900	200	<40	40	None	None	None	None	Green	65	Turbid		
S1	11/14/16	845	70	<40	<40	None	None	None	None	Green		Turbid		
S2	11/14/16	910	70	<40	20	None	None	None	None	Green		Turbid		
DSB5	11/14/16	918	50	50	90	None	None	None	None	Brown	66	Turbid		
S3	11/14/16	835	<40	<40	<40	None	None	None	None	Green		Turbid		
DSB4	11/14/16	830	<40	<40	<40	None	None	None	None	Green		Turbid		
S5	11/14/16	820	20	<40	<40	None	None	None	None	Green		Turbid		
DSB1	11/14/16	810	<40	<40	<40	None	None	None	None	Green	66	Turbid		
C1	11/14/16	855	200	<200	60	None	None	None	None	Green		Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: November 2016  
 REPORT DUE: January 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 926

Weather: Rain

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	11/21/16	1100	>7,000	>7,000	18,000	None	None	None	None	Brown	62	Turbid		
S1	11/21/16	1050	9,600	3,800	7,200	None	None	None	None	Brown		Turbid		
S2	11/21/16	1110	>7,000	3,200	8,000	None	None	None	None	Brown		Turbid		
DSB5	11/21/16	1130	14,000	8,400	3,800	None	None	None	None	Brown		Turbid	Flowing	150
S3	11/21/16	1040	8,800	6,400	3,200	None	None	None	None	Brown	63	Turbid		
DSB4	11/21/16	1030	16,000	8,600	2,600	None	None	None	None	Brown		Turbid		
S5	11/21/16	1025	6,200	5,400	3,400	None	None	None	None	Brown		Turbid		
DSB1	11/21/16	1015	6,600	3,600	1,600	None	None	None	None	Brown	63	Turbid		
C1	11/21/16	1115	>30,000	>30,000	56,000	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.

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: November 2016  
 REPORT DUE: January 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 0804

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Enterococcus	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	11/29/16	0845	50	30	30	None	None	None	None	Brown		Turbid		
S1	11/29/16	0850	40	50	9	None	None	None	None	Brown		Turbid		
S2	11/29/16	0832	200	70	40	None	None	None	None	Brown	60	Turbid		
DSB5	11/29/16	0819	6,800	4	90	None	None	None	None	Brown		Turbid		
S3	11/29/16	0900	40	50	30	None	None	None	None	Green		Turbid		
DSB4	11/29/16	0903	50	40	10	None	None	None	None	Green		Turbid		
S5	11/29/16	0910	50	50	20	None	None	None	None	Green		Turbid		
DSB1	11/29/16	0915	<40	<40	20	None	None	None	None	Green	61	Turbid		
C1	11/29/16	0845	1,000	500	800	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.

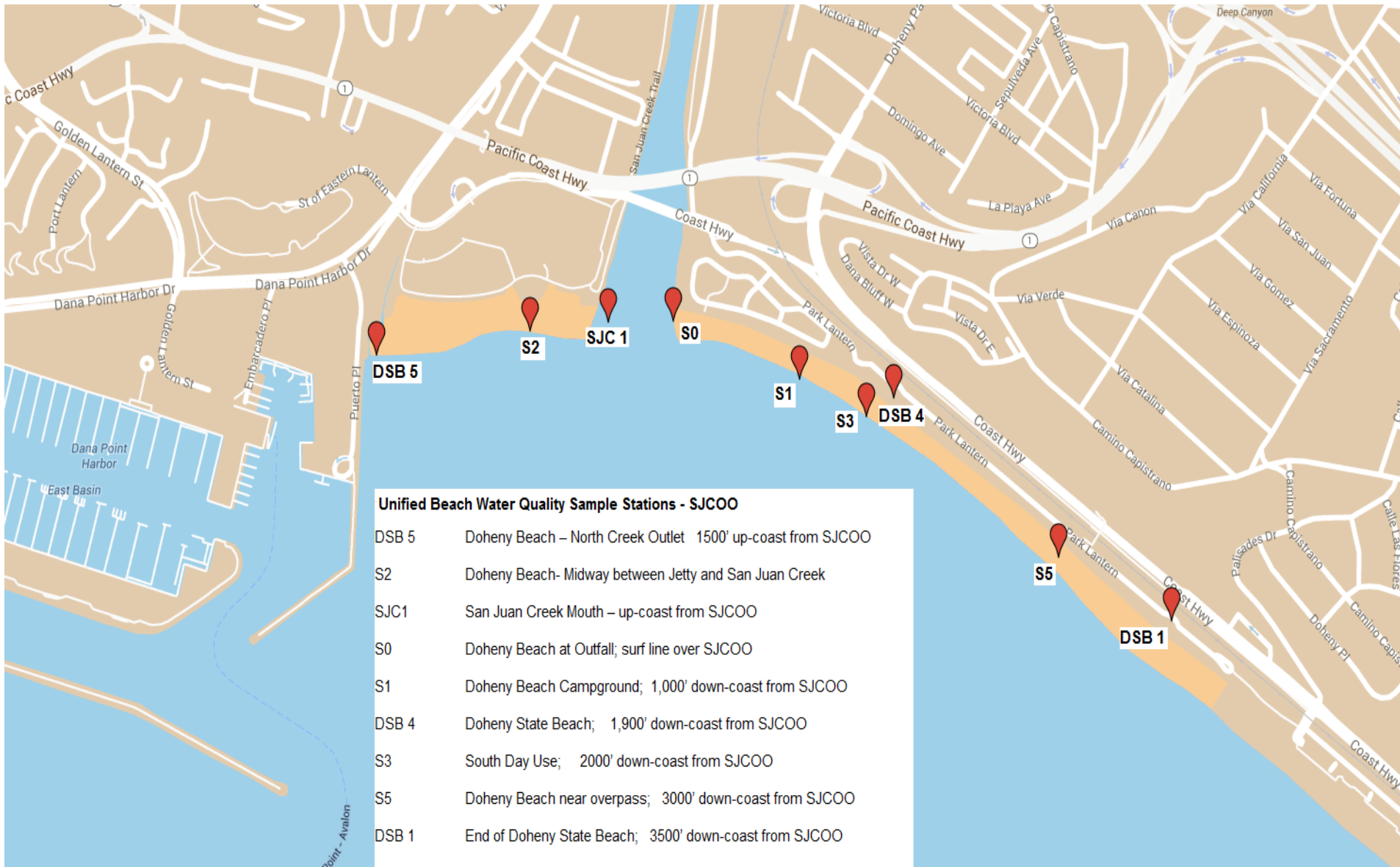


## San Juan Creek Ocean Outfall

### 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: November 2016

REPORT FREQUENCY: Monthly

REPORT DUE: January 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 1021

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	11/02/16	<2	<2	<2	927	0	0	0 - None
A-1	Mid depth	11/02/16	<10	<10	<10				1 - Mild
A-2	Surface	11/02/16	<2	<2	<2	931	0	0	2 - Moderate
A-2	Mid depth	11/02/16	<10	<10	<10				3 - Severe
A-3	Surface	11/02/16	<2	<2	<2	935	0	0	
A-3	Mid depth	11/02/16	<10	<10	<10				
A-4	Surface	11/02/16	<2	<2	<2	946	0	0	
A-4	Mid depth	11/02/16	<10	<10	<10				
A-5	Surface	11/02/16	<2	<2	<2	941	0	0	
A-5	Mid depth	11/02/16	<10	<10	<10				
B-1	Surface	11/02/16	<2	<2	<2	921	0	0	
B-1	Mid depth	11/02/16	<10	<10	<10				
B-2	Surface	11/02/16	<2	<2	<2	950	0	0	
B-2	Mid depth	11/02/16	<10	<10	<10				
N1	Surface	11/02/16	2	2	2	911	0	0	
N2	Surface	11/02/16	<2	2	<2	909	0	0	
N3	Surface	11/02/16	<2	<2	<2	906	0	0	
N4	Surface	11/02/16	2	2	<2	902	0	0	
N5	Surface	11/02/16	<2	<2	<2	900	0	0	
N6	Surface	11/02/16	<2	<2	<2	857	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.

SJCOO Permit Order No. R9-2012-0012

Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
<p>There were no violations during this period.</p>							

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

# Recycled Water Report

**Waste Discharge Requirement Order 97 - 52**

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SCWD-CTP	1/4/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	1/4/2016	Manganese	Daily	mg/L	0.06	0.07	
SMWD - Chiquita WRP	1/21/2016	Total Coliform	Monitoring	MPN/100ml	Daily	None	Monitoring Violation
SOCWA - RTP	2/11/2016	Manganese	Daily	mg/L	0.06	0.07	
SOCWA - RTP	2/11/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	2/9/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-3A	2/9/2016	Manganese	12-Month	mg/L	0.05	0.06	
SMWD - 3A	2/9/2016	Manganese	Daily	mg/L	0.06	0.07	
SOCWA - RTP	3/1/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	3/1/2016	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	4/7/2016	Manganese	12-Month	mg/L	0.05	0.06	
SMWD - Nichols	4/7/2016	TDS	Daily	mg/L	1100	1110	
SOCWA - RTP	4/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	4/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	4/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SMWD - OCWRP	4/24/2016	Total Coliform	Monthly	MPN/100ml	23	70	Sample result on 4/3/16 was 49 & on 4/24/16 was 70, exceeding 23 in one month
SOCWA - RTP	5/10/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	5/10/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	6/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	6/14/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	7/5/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	7/5/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	7/5/2016	TDS	Daily	mg/L	1100	1130	
SMWD-3A	7/22/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	8/2/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	8/2/2016	Manganese	12-Month	mg/L	0.05	0.05	
SOCWA - RTP	9/13/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	9/13/2016	Manganese	12-Month	mg/L	0.05	0.05	
SOCWA - RTP	9/13/2016	TDS	12-Month	mg/L	1000	1041	
SMWD - Nichols	9/16/2016	TDS	12-Month	mg/L	1000	824	
SMWD-3A	9/16/2016	Manganese	12-Month	mg/L	0.05	0.06	
SOCWA - RTP	10/11/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	10/11/2016	Manganese	12-Month	mg/L	0.05	0.05	
SOCWA - RTP	10/11/2016	TDS	12-Month	mg/L	1000	1034	
SMWD - Nichols	10/10/2016	TDS	12-Month	mg/L	1000	944	
SMWD-3A	10/10/2016	Manganese	12-Month	mg/L	0.05	0.05	
SOCWA - RTP	11/1/2016	TDS	12-Month	mg/L	1000	1023	
SOCWA - RTP	11/1/2016	Manganese	12-Month	mg/L	0.05	0.06	
SCWD-CTP	11/1/2016	Manganese	12-Month	mg/L	0.05	0.06	
SMWD-3A	11/30/2016	Manganese	12-Month	mg/L	0.05	0.06	

## SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

### QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Nov 30, 2016

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	841	916	983	935	903	969	997	1,023	869
Chloride	mg/L	375	172	192	249	195	201	291	222	237	235
Sulfate	mg/L	400	252	233	279	295	283	285	300	323	297
Sodium	mg/L	None	157	160	200	153	140	227	173	183	173
Alkalinity	mg/L	None	-	-	-	-	-	-		269	186
Adjusted SAR	Ratio	None	4.85	-	5.78	4.46	4.02	6.22	5.01	4.78	4.91
Iron	mg/L	0.3	0.014	0.012	0.037	0.137	0.120	0.137	0.19	0.277	0.130
Manganese	mg/L	0.05	0.017	0.002	0.012	0.021	0.034	0.027	0.058	0.062	0.044
MBAS	mg/L	0.5	0.06	0.02	0.06	0.23	0.23	0.23	0.23	0.07	0.07
Boron	mg/L	0.75	0.34	0.287	0.352	0.293	0.340	0.400	0.31	0.313	0.27
Fluoride	mg/L	None	0.70	1.750	0.27	1.063	0.88	1.40	0.99	0.84	0.84
Total Organic Carbon	mg/L	None	9.5	-	8.5	7.3	8.3	7.8	10.3	11.7	10.7

\* 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	720 mg/L
Chloride	150 mg/L
Sulfate	240 mg/L

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

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



Agency	Facility or Region	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Annual Totals
CSJC <sup>1</sup>	3-A Plant/MNWD	0.00	1.82	6.76	23.86	28.38	26.04	12.92	19.0	26.64	11.35	0.00		156.75
CSJC <sup>2</sup>	Chiquita/SMWD	8.53	16.14	16.23	21.95	22.83	25.94	27.60	24.50	22.90	22.20	21.70		230.52
CSJC <sup>3</sup>	Non-Domestic Well	0.88	0.38	2.41	0.27	0.00	20.48	48.18	57.60	10.50	21.61	13.20		175.51
ETWD	Region 8	23.42	55.08	52.33	105.24	133.64	172.45	195.68	197.92	160.68	110.38	80.81		1287.63
IRWD														
	<sup>4</sup> IRWD - 8	11.00	43.30	37.20	95.60	84.80	98.50	111.30	120.60	106.40	82.30	60.20		851.20
	<sup>4</sup> IRWD - 9	8.80	33.60	31.30	59.20	62.40	88.10	104.40	111.80	71.00	36.70	52.00		659.30
SCWD	SOCWA CTP	35.37	76.63	47.88	94.72	112.39	122.75	170.09	148.65	93.08	72.95	41.40		1015.91
MNWD	JRP	103.73	233.36	250.70	470.52	536.66	630.13	584.56	683.78	627.16	537.21	354.79		5012.60
	3-A Plant	0.00	38.94	0.00	126.06	171.24	178.12	185.33	172.48	174.92	144.32	124.84		1316.25
	<sup>5</sup> CTP	-0.43	14.22	-1.88	5.04	3.09	6.45	25.37	10.31	-16.96	-11.56	-24.55		9.10
SMWD	Oso Creek	158.48	107.56	138.93	143.01	140.89	131.78	150.50	147.09	143.66	141.63	139.24		1542.77
	Chiquita	66.20	269.51	240.11	388.28	380.84	459.30	502.25	516.80	490.07	487.92	432.71		4233.99
	Nichols	0.00	1.47	1.58	1.45	1.60	1.81	2.09	2.02	1.90	2.00	1.76		17.68
TCWD	RRWRP	53.49	48.18	52.36	48.80	52.35	50.10	45.24	51.80	48.69	50.79	49.50		551.30
TOTALS		461.37	908.01	854.80	1533.15	1676.81	1953.52	2099.62	2210.54	1928.06	1687.81	1350.45	0.00	16664.14

<sup>1</sup> Denotes transfer of recycled water from MNWD (3A Plant) for use in the CSJC service area. Not counted as additional production.

<sup>2</sup> Denotes recycled water purchased from SMWD Chiquita-WRP used in the CSJC service area. Not counted as additional production.

<sup>3</sup> Denotes nondomestic groundwater produced from wells used for landscape irrigation.

<sup>4</sup> IRWD production is from recycled water production, nonpotable water wells, and surface water impoundments

<sup>5</sup> 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:** January 12, 2017

**TO:** SOCWA Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Katie Greenwood, Source Control Manager  
**SUBJECT:** Monthly Pretreatment Report, November and December 2016  
San Juan Creek Ocean Outfall  
NPDES Permit #CA0107417 Order #R9-2012-0012  
Aliso Creek Ocean Outfall  
NPDES Permit #CA0107611 Order #R9-2012-0013

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## Summary of Program Activities

SOCWA Staff continues to utilize the CA Manufactures Directory to perform industrial waste surveys and identify potential industry requiring a permit to discharge wastewater.

- Federal pretreatment regulations require SOCWA conduct an annual Industrial Waste Survey of its entire jurisdiction to identify new industry. SOCWA manages a running IU Survey list/spreadsheet of all identified commercial and industrial businesses located in each Member Agency's (MA's) jurisdiction. Each MA IU Survey list is updated as often as possible. **SMWD, MNWD, IRWD** and **ETWD** frequently send SOCWA copies of "Will Serve" notices which describe new business and whether or not a grease interceptor is required. SOCWA would like to set-up similar procedures with the **CSC, CSJC, CLB** and **SCWD** in the very near future. These procedures are crucial in regards to the new Dental Amalgam Rule, please see paragraph directly below.

On December 12, 2016, EPA signed the final Dental Amalgam Rule. Dental dischargers are not Significant Industrial Users or Categorical Industrial Users, unless a Control Authority designates them as an SIU or CIU. This means SOCWA does not have to permit, inspect or sample any discharge from dental facilities unless SOCWA feels it is necessary in order for the dental facility to achieve compliance with the rule. Here is a brief synopsis of the rule:

- Dental dischargers are subject to BMP requirements (which are pretreatment standards under 40 CFR Part 403). SOCWA is not required to implement the traditional oversight in the General Pretreatment Regulations.
- EPA is indicating that a dental discharger may be a New Source or Existing Source. A New Source is a dental discharger that begins discharge 30 days after publication of the Final Rule in the Federal Register. All others are existing sources.
- Dental offices must submit a one-time compliance report to their Control Authority certifying that they have installed, operate, and maintain an amalgam separator that meets the the ISO 11143 Standard or the ANSI/ADA Specification 108, or equivalent, and that they follow two best management practices (BMPs):
  - Waste amalgam from chair-side traps, screens, filters, dental tools, and other devices must not be discharged to a POTW; and

- Dental unit water lines, chair-side traps, and vacuum lines must not be cleaned with oxidizing or acidic cleaners.
- Dental offices may continue to use existing dental amalgam separators for their lifetime or ten years, whichever comes first.
- Mobile dental units are exempt from the pretreatment standards.
- Existing sources have three years to comply with the rule and then submit a One-Time Compliance Report 90 days after that compliance date.
- New sources must who begin discharging 30 days after publication of the rule must comply immediately.

Currently, SOCWA has a running inventory of 371 Existing Users located in its jurisdiction. As the year ends and the rule moves closer to publication, SOCWA Staff will be updating its inventory. If MA Staff too have an existing list of Dental Existing Source Users in its jurisdiction, please forward the list to SOCWA Pretreatment Staff. And, if any Dental New Source Users apply for water services, please forward the information to SOCWA Staff asap.

SOCWA Staff is working to compile and finish its pretreatment annual report, due to the State Water Board via electronic reporting by March 1, 2016. The following is included in the report:

- The information and data obtained from annual site inspections and monitoring/sampling of all SIU/CIU's in the SOCWA service area from January 1-December 31, 2016.
- Influent and effluent data from each of the treatment plants.
  - As of December 28, 2016 SOCWA Staff has reviewed and transferred the influent and effluent data to the Hach Water Information Management System (WIMS) database from all treatment plants except those under SMWD oversight (Oso Creek, Chiquita, and 3A treatment plants).
- SMWD completed the annual influent/effluent sampling at Oso Creek, Chiquita, and 3A treatment plants during the week of October 10, 2016. SOCWA is waiting to receive the analytical results for review and transfer.

### **Inspection Related Activities**

SOCWA Staff conducted the following inspections and sampling events on the following date:

- CSC – SDG&E fleet and storage site on December 7, 2016 – inspected in response to request to permit site to allow discharge of water collected in utility vaults.
- SMWD – Creative Flavor Concepts on December 15, 2016 – inspected in response to request from IU to terminate Discharge Permit. Company is moving production out of state.

### **Permit Related Activities**

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

SCWD-4-003-01-17 – SDG&E Pipeline Safety Enhancement Project – SOCWA Staff issued a SWD Permit to SDG&E on October 4, 2016 to allow for discharge of groundwater during trenching activities. At the request of the IU, SOCWA terminated the permit on December 22, 2016. The project is complete and all equipment and connection to sewer facilities has been removed.

SMWD-2-006-4-20 – Creative Flavor Concepts – At the request of the IU, SOCWA terminated the WD permit on December 28, 2016. All company manufacturing has been moved to an out-of-state facility.

SCWD-N4-006-09-16 – Nuisance Water Special Wastewater Diversion Permit (NSWD) for Headlands Reserves (Baby Beach) – **City of Dana Point and SOCWA are waiting on SCWD to provide an amended Diversion Agreement. The current permit expired at the end of September 2016.** SCWD Staff indicated via email on November 22, 2016 that a new agreement will be on the SCWD Committee and E&O agenda in January. SOCWA Staff has prepared a new draft permit which reflects Dana Point as the responsible party. City of Dana Point took over operation and maintenance of the diversion site from Headlands Reserves as of August 1, 2016.

- In anticipation of a rain event, the diversion was closed on September 19<sup>th</sup>. Since Permit language states that the diversion is to be closed from October 15<sup>th</sup> through April 15<sup>th</sup> each year, City of Dana Point decided to keep the diversion closed for the rest of the season.

SCWD-N4-007-09-16 – NSWD for Montage Resorts – **Montage Resorts and SOCWA are waiting on SCWD to provide an amended Diversion Agreement. The current permit expired at the end of September 2016.** SCWD Staff indicated via email on November 22, 2016 that a new agreement will be on the SCWD Committee and E&O agenda in January. SOCWA Staff has prepared a draft renewal permit in anticipation of the new agreement.

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 November 22, 2016 that a new agreement will be on the SCWD Committee and E&O agenda in January. 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.

CSC-2-008 – 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 within the jurisdiction of the CSC. The permit is on hold until requested information associated with the permit application is provided.

SOCWA-4-005 – SMWD - Lake Mission Viejo Project – Staff has prepared a SWD Permit to allow for the discharge of treated lake water, reject (brine and backwash) water and neutralized cleaning in place (CIP) (from RO, ultrafiltration, and ion exchange treatment) water to the Oso Trabuco sewer trunkline. SOCWA Staff received comments from SMWD on December 16, 2016. SOCWA Staff received comments from MNWD on December 14, 2016 and December 23, 2016. SOCWA Staff anticipates sending a final permit draft for final review and signature to SMWD and MNWD before the end of the year.

IRWD-1-001 – Dynacast –SOCWA Staff modified the existing WD Permit on September 23, 2016 to reclassify the industry as a Non-Significant Categorical Industrial User (NSCIU) and to include treated oily mop wastewater as a secondary batch wastewater discharge. The new classification allows for a discharge of no more than 100 gpd of wastewater considered categorical wastewater subject only to SOCWA's local limits. Facility procedures for separating and treating the mop wastewater are being refined and as of December 28, 2016, no mop wastewater has been discharged to the sewer from the facility.

## Summary of Enforcement Events

MNWD - SOCWA Staff issued a warning notice of non-compliance (WNON) to Los Angeles Engineering (responsible for the Crown Valley Parkway Project) on December 19, 2016 for failing to measure pH and flow on the same day that a sample was collected for analysis.

## Summary of Activities and Types of IUs in the SOCWA Service Area.

YTD through December 28, 2016.

MA		Events	Permit	NIWD	BMP	FSE	OSE	Closed	Enforcement	# of IUs
CLB	(S)	2	3	2	5	8	110	0	0	128
CSC	(M)	18	5	35	18	181	1283	0	4	1522
CSJC	(S)	5	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)	2	3	51	19	63	922	0	3	1058
MNWD	(S)	102	6	125	40	600	2027	17	1	2795
SMWD	(S)	29	5	20	18	174	715	3	5	931
SCWD	(S)	0	14	33	7	148	184	1	1	386
TCWD	(S)	0	11	0	0	7	33	0	0	51
SOCWA	(S)	2	3	0	0	0	0	0	2	3
Totals		160	56	391	166	1580	7051	21	16	9266
Dentist (All)										371
<b>Total Known IUs</b>										<b>9637</b>

(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:** January 12, 2016

**TO:** Board of Directors

**FROM:** Betty Burnett, General Manager

**STAFF CONTACT:** Brian Peck, Director of Engineering

**SUBJECT:** Capital Improvement Program Status Report

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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>
<b>CAPITAL IMPROVEMENT PROJECT LIQUIDS</b>			
3213-000	Water System Piping Improvements (2014)	Study	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	Workshop No.3 with PC 2 Engineering Committee was held on November 17, 2016.
3203-000	Effluent Standby Generator ATS Replacement (2016)	Design	Gateway Pacific is currently working on installation of new auto transfer switch.
3252-000	Plant 1 Standby Power Generator Replacement (2017)	Design	services to be made at the January 12, 2017, SOCWA Board meeting.
3251-000	Effluent Flow Meter Replacement (2017)	Design	Recommendation for award of contract for design services to be made at the January 12, 2017, SOCWA Board meeting.
3250-000	Plant 1 Grit Basin Improvements (2017)	Design	Recommendation for award of contract for design services to be made at the January 12, 2017, SOCWA Board meeting.
3253-000	Effluent System Valve Replacement (2017)	Design	Recommendation for award of contract for design services to be made at the January 12, 2017, SOCWA Board meeting.
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)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
<b>CAPITAL IMPROVEMENT PROJECT COMMON</b>			
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	The kickoff meeting for the project will be held on January 12, 2017, with DHK Engineering.
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	RFP for engineering services to be issued in January, 2017.
<b>CAPITAL IMPROVEMENT PROJECT SOLIDS</b>			
3209-000	Facility Improvements - Co-Generation Reconstruction (2015)	Construction	Part of the Package 'A/C' Improvements. Gateway Pacific currently installing the new co-generation equipment in the Energy Building.
3272-000	Dewatering System Controls Upgrade (2017)	Construction	SOCWA Operations staff is reviewing proposals from two vendors.
4002-000	Dewatering System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued in January, 2017.
4003-000	Heating System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued in January, 2017.
3210-000	Facility Improvements - Solids Area (2015)	Design	Part of the Package 'B' Improvements. Carollo has submitted a preliminary technical memorandum for review by SOCWA staff.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
PROJECT COMMITTEE NO. 3A(R) - PLANT 3A CAPITAL PROJECTS  
(‘16/’17)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
<b>CAPITAL IMPROVEMENT PROJECTS</b>			
1253	Surface Drainage Improvements (2014)	Construction	Project completed.
1273	Primary Sedimentation Upgrade (2011)	Construction	Project completed.
1250	Channel & Basin Lining Repair (2013)	Construction	Project completed.
1294	Electrical/Structural Repairs (2003)	Construction	Project completed.

**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>
<b>CAPITAL IMPROVEMENT PROJECTS</b>			
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	Kick-off meeting held on September 1, 2016; work in progress.
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>
<b>CAPITAL IMPROVEMENT PROJECTS LIQUIDS</b>			
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 presentation by CH2MHill.
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	Project will bid as part of CTP Miscellaneous Improvements 2017. Project will go to bid in December, 2016.

**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>
<b>CAPITAL IMPROVEMENT PROJECTS LIQUIDS</b>			
3508-000	Grit System Knife Gate Valve Replacement (2015)	Design	Project will bid as part of CTP Miscellaneous Improvements 2017. Project will go to bid in December, 2016.
3509-000	Switchgear Replacement Design (2016)	Design	SOCWA staff is reviewing presentation by CH2MHill.
3510-000	Grating Rebate and Concrete Repair Between Aeration Basins and Primary Basins (2016)	Design	Project will bid as part of CTP Miscellaneous Improvements 2017. Project will go to bid in December, 2016.
4022-000	Influent/Overflow Condition Assessment (2016)	Condition Assessment	Assessment completed; draft report submitted by V&A Consultants.
3512-000	Grating Rebate and Concrete Repair Between HW Building and Primary Basins (2016)	Design	Project will bid as part of CTP Miscellaneous Improvements 2017. Project will go to bid in December, 2016.
3514-000	CTP Facility Upgrade Design (2016)	Design	SOCWA staff is reviewing presentation by CH2MHill.
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	The design team is working to resolve issues raised by the U. S. Fish and Wildlife Service. A meeting with USACOE staff was held on December 9, 2016. A meeting with OC Parks staff is scheduled for January 9, 2017.
3550-000	Export Sludge Pump Addition (2017)	Design	Project will bid as part of CTP Miscellaneous Improvements 2017. Project will go to bid in December, 2016.
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>
<b>CAPITAL IMPROVEMENT PROJECTS LIQUIDS</b>			
3553-000	Plant Drainage Improvements (2017)	Design	RFP for design services to be issued in January, 2017.
3554-000	Odor Scrubber Bleach Tank Replacement (2017)	Design	Project will bid as part of CTP Miscellaneous Improvements 2017. Project will go to bid in December, 2016.
4015-000	Conceptual Building Design (2017) (NCP)	Study	RFP for engineering services to be issued in January, 2017.
3503-000	Scrubber Upgrade (2013)	Construction	The stack extension has been completed; the replacement of the chemical feed pumps will be bid as part of CTP Miscellaneous Improvements 2017.
<b>CAPITAL IMPROVEMENT PROJECT AWT</b>			
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)	Design	Dudek has submitted the 90% complete drawings for the project. Project to go to bid in December, 2016.
4006-000	Effluent Equalization System Condition Assessment (2017) (NCP)	Condition Assessment	Project has been awarded to V&A Consultants; assessments to be performed in January, 2017.
4007-000	Contact Basins Condition Assessment (2017) (NCP)	Condition Assessment	Project has been awarded to V&A Consultants; assessments to be performed in January, 2017.
3517-000	AWT Backwash Water Pump Replacement (2016)	Design	Dudek has submitted the 90% complete drawings for the project. Project to go to bid in December, 2016.
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)**

<b>Task Code</b>	<b>Description</b>	<b>Phase</b>	<b>Status</b>
<b>CAPITAL IMPROVEMENT PROJECT LIQUIDS</b>			
3701-000	Secondary Electrical System Rerouting (2014)	Design	RFP has been distributed; proposals due on February 1, 2017.
3730-000	Primary Gallery Upgrade (2014)	Design	After discussion with MNWD staff SOCWA staff will delay this work in order to perform a more comprehensive upgrade.
3702-000	Waste Activated Sludge VFD Control Panel (2013)	Design	RFP has been distributed; proposals due on February 1, 2017.
3704-000	Odor Control Scrubber Control Panel No. 1 (2013)	Design	The proposed modifications to the scrubber control panel would require the shutdown of the scrubber for over a week. Options are being evaluated.
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)	Design	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
3712-000	Grit Basin Drop Gate and Weir Replacement (2016)	Design	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	The project has been awarded to Carollo Engineers.
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)**

<b>Task Code</b>	<b>Description</b>	<b>Phase</b>	<b>Status</b>
<b>CAPITAL IMPROVEMENT PROJECT LIQUIDS</b>			
1410	Aeration System Analysis (2015)	Study	Draft memornadum submitted by Hazen & Sawyer.
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)	Condition Assessment	Project has been awarded to V&A consultants; assessments to be performed in February, 2017.
<b>CAPITAL IMPROVEMENT PROJECT COMMON</b>			
3715-000	Switchgear Upgrade (2006)	Construction	New switchgear has been installed.
3760-000	Develop Buried Piping Reconstruction Master Plan (2017)	Study	The project kick-off meeting with Lee & Ro is scheduled for January 10, 2017.
3761-000	External Lighting Upgrade (2017)	Design	Draft memornadum submitted by Hazen & Sawyer.
3763-000	Reroute Plant Drains (2017)	Design	Part of Buried Piping Project.
3762-000	Secondary Access Road CEQA (2017)	Permitting	Dudek submitting proposal for CEQA preparation.
3764-000	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations Dept.
3717-000	Security Fencing (2015)	Design	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
3718-000	Access Bridge Upgrades (2015)	Design	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
<b>CAPITAL IMPROVEMENT PROJECT SOLIDS</b>			
3720-000	Digester Dome Recoating (2014)	Construction	Pacific Hydrotech has sustantially completed this work.
1478	Underground Piping Upgrade (2006)	Construction	Pacific Hydrotech has sustantially completed this work.
3722-000	Co-Generation System Retrofit (2008)	Construction	Pacific Hydrotech will be starting up the new bolier system in December.
3723-000	Recoat Top of Digesters (2016)	Design	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.



**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>
<b>CAPITAL IMPROVEMENT PROJECTS</b>			
4013-000	Emergency Plan Development (2016) (NCP)	Study	Kick-off meeting held on September 1, 2016; work in progress.

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

**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			
		2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<b>MISCELLANEOUS IMPROVEMENTS 2017</b>			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

<b>INDEPENDENT PROJECTS</b>							
4014-000	Foul Air System Evaluation (2016) (NCP)		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	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			
		2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<b>MISCELLANEOUS IMPROVEMENTS 2015</b>		C	C					
1352	Lighting System Improvements (2014)	C	C					
3501-000	Fire Protection (2013)	C	C					
3502-000	RAS Hypochlorite System (2013)	C	C					
3505-000	Headworks Overflow Pipe Modifications (2015)	C	C					
3506-000	Structural Modifications - Site (2015)	C	C					
3516-000	Disinfection System Upgrade (AWT) (2011)	C	C					
1357	Hypochlorite Tank (AWT) (2013)	C	C					
3518-000	Chlorine Mixer Replacement (2015)	C	C					
3515-000	Existing Export Sludge Wetwell Refurbishment (2015)	C	C					
<b>FACILITY IMPROVEMENTS PACKAGE</b>		P	P	D	D	D	B&A	C
3504-000	Aeration System Modification Design (2015)	P	P	D	D	D	B&A	C
3509-000	Switchgear Replacement Design (2016)	P	P	D	D	D	B&A	C
3514-000	CTP Facility Upgrade Design (2016)	P	P	D	D	D	B&A	C

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

**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			
		2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<b>INDEPENDENT PROJECTS</b>								
4022-000	Influent/Overflow Condition Assessment (2016)	CA						
3552-000	SCADA System Improvements (2017)	C	C					
3553-000	Plant Drainage Improvements (2017)		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			
		2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<b>MISCELLANEOUS IMPROVEMENTS 2016</b>		B&A	C	C	C			
3707-000	Influent Manholes 1 and 2 and Sewer Repair (2016)	B&A	C	C	C			
3708-000	Influent Junction Structure Gate Replacement (2016)	B&A	C	C	C			
3710-000	AWT Water Quality Instrumentation (2016)	B&A	C	C	C			
3712-000	Grit Basin Drop Gate and Weir Replacement (2016)	B&A	C	C	C			
3717-000	Security Fencing (2015)	B&A	C	C	C			
3718-000	Access Bridge Upgrades (2015)	B&A	C	C	C			
3723-000	Recoat Top of Digesters (2016)	B&A	C	C	C			
<b>COGENERATION AND SWITCHGEAR UPGRADE</b>		C	C	C	C			
3715-000	Switchgear Upgrade (2006)	C	C	C	C			
3720-000	Digester Dome Recoating (2014)	C	C	C	C			
1478	Underground Piping Upgrade (2006)	C	C	C	C			
3722-000	Co-Generation System Retrofit (2008)	C	C	C	C			
<b>MISCELLANEOUS IMPROVEMENTS 2017</b>		D	D	B&A	C	C	C	C
3701-000	Secondary Electrical System Rerouting (2014)	D	D	B&A	C	C	C	C
3702-000	Waste Activated Sludge VFD Control Panel (2013)	D	D	B&A	C	C	C	C
3752-000	AWT No.2 Upgrade Design (2017)	D	D	B&A	C	C	C	C
3761-000	External Lighting Upgrade (2017)	D	D	B&A	C	C	C	C
3763-000	Reroute Plant Drains (2017)	D	D	B&A	C	C	C	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			
		2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<b>INDEPENDENT PROJECTS</b>								
3730-000	Primary Gallery Upgrade (2014)				D	D	D	B&A
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	
1410	Aeration System Analysis (2015)	P	P					
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)		CA					
3760-000	Develop Buried Piping Reconstruction Master Plan (2017)	P	P	P				
3762-000	Secondary Access Road CEQA (2017)		ENV	ENV				
3764-000	SCADA System Improvements (2017)		C	C				



# Agenda Item

<b>Budgeted:</b> Yes
<b>Budget amount:</b> \$18,427,870
<b>Line Items:</b> PC 2 Tasks 3201-000, 3204-000, 3205-000, and 3209-000
<b>Legal Counsel Review:</b> No
<b>Meeting Date:</b> January 12, 2017

**TO:** Project Committee 2

**FROM:** Betty Burnett, General Manager

**STAFF CONTACT:** Brian Peck, Director of Engineering

**SUBJECT:** Change Orders to Butier Engineering Construction Management Contract for the J. B. Latham Treatment Plant Facility Improvements Packages 'A' and 'C' Project

## Recommendation

The Engineering Committee recommends that the Board of Directors approve Change Orders 1, 2, and 3 to the construction contract with Gateway Pacific for the J. B. Latham Treatment Plant Facility Improvements Packages 'A' and 'C' Project.

## Change Orders

1. Approve Change Order 1 for the Aeration and Secondary System Improvements (PC 2, Task 3201-000).

CO #	CO Item	Description	Change Order Price	Total Change Order Price*	Status
1	Services During Extended Duration of Construction Contract	Extension resulting from owner requested changes including modifications to variable frequency drive panels for the raw sewage pumps. Other portions of completion delay are related to weather days.	\$16,000.00	\$16,000.00	SOCWA Engineering Committee Recommended

\* Cumulative for specific budget task code.

2. Approve Change Order 2 for the West Side Power System Improvements (PC 2, Task 3205-000).

CO #	CO Item	Description	Change Order Price	Total Change Order Price*	Status
2	Services During Extended Duration of Construction Contract	Extension resulting from owner requested changes including modifications to the transfer switch in the switchboard. Other portions of completion delay are related to weather days and previous change order for the new ATS at the Effluent Pump Station.	\$39,000.00	\$39,000.00	SOCWA Engineering Committee Recommended

\* Cumulative for specific budget task code.

3. Approve Change Order 3 for the Co-Generation Upgrade (PC 2, Task 3209-000).

CO #	CO Item	Description	Change Order Price	Total Change Order Price*	Status
3	Services During Extended Duration of Construction Contract	Extension resulting from owner requested changes related to island mode control for the cogeneration system. Other portions of completion delay are related to contractor requested weather days and San Diego Gas & Electric review of the Interconnection Agreement application.	\$94,000.00	\$94,000.00	SOCWA Engineering Committee Recommended

\* Cumulative for specific budget task code.

**Advisory Status**

Reviewed and recommended by the SOCWA Engineering Committee on December 8, 2016.

**Financial Status**

Original Contract Amount:	_____	\$ 757,700.00
Net change by previous change orders:	_____	\$ 0.00
Contract amount prior to this change order:	_____	\$ 757,700.00
Net increase, decrease due to this change order:	_____	\$ 149,000.00
New contract amount, including this change order:	_____	\$ 906,700.00

The overall project remains within budget. The remaining contingency for the J. B. Latham Treatment Plant Facility Improvements Packages A/C Project prior to the Butier amendment is \$895,000. The adoption of the Butier amendment would leave a contingency of approximately \$748,000 for the project. The revised project ledger is presented in Table 1. The allocation of the change order costs is shown below.

Budget Task Codes	3201-000	3204-000	3205-000	3209-000	
Cost Center	Liquids	Liquids	Common	Solids	Total
Moulton Niguel Water District	\$3,692.80	\$0.00	\$8,724.30	\$20,322.80	\$32,739.90
City of San Juan Capistrano	\$4,923.20	\$0.00	\$11,875.50	\$28,200.00	\$44,998.70
Santa Margarita Water District	\$2,769.60	\$0.00	\$8,915.40	\$26,677.20	\$38,362.20
South Coast Water District	\$4,614.40	\$0.00	\$9,484.80	\$18,800.00	\$32,899.20
<b>Total</b>	<b>\$16,000.00</b>	<b>\$0.00</b>	<b>\$39,000.00</b>	<b>\$94,000.00</b>	<b>\$149,000.00</b>

**Table 1**

Project Cost Ledger: J.B. Latham Treatment Plant Facility Improvements  
 Packages A and C  
 (Millions)

	Aeration and Secondary Improvements	Structural Modifications	West Side Power Sys. Upgrade	Co- Generation Upgrade	Total *
<b>Budget (2016/2017)</b>	<b>7.4</b>	<b>0.7</b>	<b>3.7</b>	<b>6.6</b>	<b>18.4</b>
<b>Budget Task Codes</b>	<b>3201-000</b>	<b>3204-000</b>	<b>3205-000</b>	<b>3209-000</b>	
<u>Actual Bid Costs-</u> <u>Constr.</u>	4.911	0.471	2.556	6.013	13.951
<u>Construction Change</u> <u>Orders</u>	0.058	0.135	0.155	0.148	0.496
<u>Study &amp; Design</u> <u>(Upfront Costs)</u>	1.268	0.000	0.241	0.000	1.509
Contingency	0.575	0.069	0.196	-0.093	0.747
Construction Management	0.595	0.055	0.263	0.463	1.375
Butier CM Amendment	0.016	0.000	0.039	0.094	0.149
San Diego Gas & Electric (SDG&E)	0.000	0.000	0.200	0.000	0.200
<b>Total Project Costs</b>	<b>7.4</b>	<b>0.7</b>	<b>3.7</b>	<b>6.6</b>	<b>18.4</b>
<u>Spending</u>					
Spending	(7.0)	(0.7)	(3.4)	(5.3)	(16.4)
Remaining Spending	(0.4)	(0.0)	(0.3)	(1.3)	(2.0)
<b>Remaining Budget</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>*Grants</b>				<b>0.8</b>	<b>0.8</b>
<b>Net SOCWA Costs</b>	<b>7.4</b>	<b>0.7</b>	<b>3.7</b>	<b>5.8</b>	<b>17.6</b>

\* Excludes budget and costs associated with Diesel Storage Tank and Effluent Pump Station Automatic Transfer Switch.

# Agenda Item

<b>Budgeted:</b> Yes
<b>Budget amount:</b> \$18,427,870
<b>Line Items:</b> PC 2 Tasks 3201-000, 3204-000, 3205-000, and 3209-000
<b>Legal Counsel Review:</b> No
<b>Meeting Date:</b> January 12, 2017

**TO:** Project Committee 2

**FROM:** Betty Burnett, General Manager

**STAFF CONTACT:** Brian Peck, Director of Engineering

**SUBJECT:** Change Orders to Gateway Pacific Construction Contract for the J. B. Latham Treatment Plant Facility Improvements Packages 'A' and 'C' Project

## Recommendation

The Engineering Committee recommends that the Board of Directors approve Change Orders 33, 34, 35 and 36 to the construction contract with Gateway Pacific for the J. B. Latham Treatment Plant Facility Improvements Packages 'A' and 'C' Project.

## Change Orders

1. Approve Change Orders 33, 34, 35 and 36 for the Co-Generation System Improvements (PC 2, Task 1115).

CO #	CO Item	Description	Change Order Price	Total Change Order Price*	Status
33	Split Duct for Second Opening in Wall Between Engine Room and HVAC Room in Energy Building	Existing opening at Energy Building could not be enlarged without affecting structural integrity so duct was divided and second opening created.	\$9,282.92	\$113,134.07	SOCWA Engineering Committee Recommended

\* Cumulative for specific budget task code.

CO #	CO Item	Description	Change Order Price	Total Change Order Price*	Status
34	Remove Lighting Panel LP-3 and Transformer T-3	New cogeneration piping conflicts with access to existing panel LP-3. Panel removed and wired to new Panel LP-CG.	\$8,450.86	\$121,584.93	SOCWA Engineering Committee Recommended
35	Gas Detection for Cogeneration Room	OCFA inspection resulted in request for gas detection equipment to be added in engine room.	\$26,408.12	\$147,993.05	SOCWA Engineering Committee Recommended
36	Contract Time Extension for Inclement Weather	Time extension related to inclement weather. Revised completion date in February 28, 2016. This is a no cost change order.	\$0.00	\$147,993.05	SOCWA Engineering Committee Recommended

\* Cumulative for specific budget task code.

### Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on December 8, 2016.

### Financial Status

Original Contract Amount:	_____	\$ 13,951,363.00
Net change by previous change orders:	_____	\$ 590,847.75
Contract amount prior to this change order:	_____	\$ 14,542,210.75
Net increase, decrease due to this change order:	_____	\$ 44,141.90
New contract amount, including this change order:	_____	\$ 14,586,352.65

The overall project remains within budget. The revised project ledger is presented in Table 1. The allocation of the change order costs is shown below.

Task	1115
Member Agency	Solids
Moulton Niguel Water District	\$9,543.48
City of San Juan Capistrano	\$13,242.57
Santa Margarita Water District	\$12,527.47
South Coast Water District	\$8,828.38
Total	\$44,141.90

**Table 1**

Project Cost Ledger: J.B. Latham Treatment Plant Facility Improvements  
 Packages A and C  
 (Millions)

	Aeration and Secondary Improvements	Structural Modifications	West Side Power Sys. Upgrade	Co- Generation Upgrade	Total *
<b><u>Budget (2016/2017)</u></b>	<b>7.4</b>	<b>0.7</b>	<b>3.7</b>	<b>6.6</b>	<b>18.4</b>
<b><u>Budget Task Codes</u></b>	<b>3201-000</b>	<b>3204-000</b>	<b>3205-000</b>	<b>3209-000</b>	
<u>Actual Bid Costs-</u>					
<u>Constr.</u>	4.911	0.471	2.556	6.013	13.951
<u>Construction Change</u>					
<u>Orders</u>	0.058	0.135	0.155	0.148	0.496
<u>Study &amp; Design</u>					
<u>(Upfront Costs)</u>	1.268	0.000	0.241	0.000	1.509
Contingency	0.591	0.069	0.235	0.000	0.895
Construction Management	0.595	0.055	0.263	0.463	1.375
San Diego Gas & Electric (SDG&E)	0.000	0.000	0.200	0.000	0.200
<b>Total Project Costs</b>	<b>7.4</b>	<b>0.7</b>	<b>3.6</b>	<b>6.6</b>	<b>18.4</b>
<u>Spending</u>					
Spending	(7.0)	(0.7)	(3.4)	(5.3)	(16.4)
Remaining Spending	(0.4)	(0.0)	(0.2)	(1.3)	(2.0)
<b>Remaining Budget</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>*Grants</b>				<b>0.8</b>	<b>0.8</b>
<b>Net SOCWA Costs</b>	<b>7.4</b>	<b>0.7</b>	<b>3.6</b>	<b>5.8</b>	<b>17.6</b>

\* Excludes budget and costs associated with Diesel Storage Tank and Effluent Pump Station Automatic Transfer Switch.

# Agenda Item

<b>Budgeted:</b> Yes
<b>Budget amount:</b> \$1,717,040.00
<b>Line Items:</b> PC 15 Tasks 3501-000, 3502-000, 3505-000, 3506-000, 3531-000, 3515-000, 3516-000, and 3518-000
<b>Legal Counsel Review:</b> No
<b>Meeting Date:</b> January 12, 2017

**TO:** Project Committee 15

**FROM:** Betty Burnett, General Manager

**STAFF CONTACT:** Brian Peck, Director of Engineering

**SUBJECT:** Change Orders to Pascal & Ludwig Construction Contract for the Coastal Treatment Plant Miscellaneous Improvements 2015 Project

## Recommendation

The Engineering Committee recommends that the Board of Directors approve Change Order 4 to the construction contract with Pascal & Ludwig for the Coastal Treatment Miscellaneous Improvements 2015 Project.

## Change Orders

1. Recommend Change Order 4 to the construction contract for the Sodium Hypochlorite System (PC 15, Task 3516-000)

CO #	CO Item	Description	Change Order Price	Cumulative Change Order*	Status
4	Additional FRP Guardrail Protection	Installation of additional FRP guardrail protection at the new Sodium Hypochlorite as recommended by SOCWA's safety hygienist.	\$5,021.00	\$19,208.00	SOCWA Engineering Committee Recommendation

\* Cumulative change order cost for this task code only.

## Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on December 8, 2016.

## Financial Status

Original Contract Amount:	\$ 989,683.00
Net change by previous change orders:	\$ 60,436.00
Contract amount prior to this change order:	\$ 1,050,119.00
Net increase, decrease due to this change order:	\$ 5,021.00
New contract amount, including this change order:	\$ 1,055,140.00



The overall project remains within budget. The overall project remains within budget.

This change order is attributed to PC 15 AWT. The cost is fully allocated to the South Coast Water District.

# Agenda Item

**Budgeted:** Yes

**Budget amount:** \$1,088,250

**Line Item:** PC 2 Tasks 3250-000, 3251-000, 3252-000, and 3253-000

**Legal Counsel Review:** No

**Meeting Date:** January 12, 2017

**TO:** Project Committee 2 Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Brian Peck, Director of Engineering  
**SUBJECT:** Award of Engineering Services Contract for the J. B. Latham Treatment Plant Miscellaneous Improvements 2017 Final Design

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## Summary

This agenda item provides a recommendation for the award of an engineering services contract to Hazen & Sawyer for the final design of the J. B. Latham Treatment Plant Miscellaneous Improvements 2017 Project.

## Background

The J. B. Latham Treatment Plant is a conventional activated sludge treatment plant with a secondary treatment design capacity of 13 MGD. A major upgrade to the Latham Plant (titled the Package A/C Improvements) is scheduled for completion in January, 2017. A second major project (titled the Package B Improvements) is currently in the planning stages. This project is expected to be bid for construction in January 2018.

The J. B. Latham Treatment Plant Facility Improvements 2017 project has been envisioned to address items requiring improvement prior to the implementation of the Package B Improvements Project. The four areas to be addressed in the Facility Improvements 2017 project are listed below:

- Plant 1 Grit Basins. A condition assessment was completed by V&A Consulting Engineers in February, 2017. The assessment identified the following areas of improvement:
  - Replace the corroded aluminum covers
  - Rehabilitate the concrete curbs that support the aluminum covers
  - Blast and coat the interior concrete surfaces of the structure
  - Clean and coat the corroded areas on two 18-inch steel pipes
  - Replace the PVC agitation air piping
  - Remove one slide gate and close the opening
  - Replace two slide gates
  - Install one new slide gate in a new opening.
- Plant 1 Standby Power Generator Replacement. The Plant 1 Standby Power Generator can supply power to the Plant 1 bar screens, screening compactor, raw sewage pumps and odor control scrubber in the event of a power failure. The existing standby power generator is a Caterpillar 415kw, 600 horsepower unit fed by natural gas. The unit is over 35 years old. The generator requires replacement as it has exceeded its useful life. This project is an in-kind replacement to be located in the same spot as the

existing unit. The automatic transfer switch associated with the unit does not requirement work as it was replaced in 2011.

- Effluent Flow Meters. The plant is equipped with two direct propeller flow meters to measure the secondary effluent flow in the effluent pipelines. The accuracy of these meters has been suspect in recent years. This occurrence is believed to be related to the reduction in overall flow in recent years. Changing the type of meter is not believed to be feasible. The SOCWA Operations staff believes that minor modifications to the upstream channel might improve the flow characteristics at the meters. The meters themselves are also to be replaced.
- Effluent Valve Replacement. Replace the butterfly and check valves in vaults located on the Plant 1 and 2 effluent pipelines.

Requests for Proposals

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

- AECOM
- Hazen & Sawyer
- MWH

Proposals were received from AECOM and Hazen & Sawyer.

**Discussion/Analysis**

Comparison of Proposals

A summary of the proposals is presented in Table 1

TABLE 1 - PROPOSAL SUMMARY

<b>Firm</b>	<b>AECOM</b>	<b>Hazen &amp; Sawyer</b>
Project Manager	Todd Shafer	Christopher Thunhorst
Project Engineer	Nick Cooper	-
Principal	Jack Gundarlahalli	Kevin Alexander
Subconsultants	None	None
Qualifications	Team currently working on Oxnard project with many similar elements. AECOM did work on Plant No.2 headworks in 2011.	Proposed team has broad wastewater experience.
QA/QC	Bob Stallings responsible for QA/QC.	Jerry Gantney and Gerry Ratasky identified as technical reviewers.
No. of Drawings	20	18
Total Labor Hours	692	798
Project Schedule	Completion by May 2017	Completion by May 2017
Contract Issues	Indicates a need to negotiate terms	None
Proposal Requirement Compliance	Complied	Complied

The proposed fees for the each firm are as shown in Table 2.

TABLE 2 - PROPOSAL SUMMARY

<b>Firm</b>	<b>AECOM</b>	<b>Hazen and Sawyer</b>
Total Fee	\$105,000	\$122,838

The Engineering Committee for Project Committee 2 reviewed each of the proposals. The proposals indicated that both firms had assembled experience teams. The Engineering Committee recommended award of contract to Hazen & Sawyer. The basis for the recommendation was the level of effort identified for preparing the drawings and specifications.

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

**Advisory Committee Review**

Proposals for engineering services for the J. B. Latham Treatment Plant Miscellaneous Improvements 2017 Final Design were reviewed by the Engineering Committee on December 8, 2016. The Engineering Committee recommended award of the engineering services contract Hazen & Sawyer.

**Fiscal Impact**

The budget status of the two impacted task items for Project Committee 2 is presented in Table 3.

TABLE 3 -BUDGET STATUS

<b>Task</b>	<b>Cost Center</b>	<b>Budget</b>	<b>Expended to Date</b>	<b>Proposed Engineering Contract</b>	<b>Remainder</b>
Plant 1 Grit Basins and Handling (3250-000)	PC 2 Liquids	\$463,500.00	\$0.00	\$52,318.32	\$411,181.68
Effluent Flow Meter Replacement (3251-000)	PC 2 Liquids	\$90,000.00	\$0.00	\$10,158.90	\$79,841.10
Plant 1 Standby Power Generator Replacement (3252-000)	PC 2 Liquids	\$334,750.00	\$0.00	\$37,785.45	\$296,964.55
Effluent System Valve Replacement (3253-000)	PC 2 Liquids	\$200,000.00	\$0.00	\$22,575.33	\$177,424.67
<b>Total</b>		\$1,088,250.00	\$0.00	\$122,838.00	\$965,412.00

The allocation of the project cost to the member agencies is presented in Table 4.

TABLE 4 - ALLOCATION OF COST TO MEMBER AGENCY

	<b>PC 2 Task 3250-000</b>	<b>PC 2 Task 3251-000</b>	<b>PC 2 Task 3252-000</b>	<b>PC 2 Task 3253-000</b>	
Moulton Niguel Water District	\$12,075.07	\$2,344.67	\$8,720.88	\$5,210.39	\$28,351.01
City of San Capistrano	\$16,098.35	\$3,125.89	\$11,626.58	\$6,946.43	\$37,797.25
Santa Margarita Water District	\$9,056.30	\$1,758.51	\$6,540.66	\$3,907.79	\$21,263.26
South Coast Water District	\$15,088.60	\$2,929.83	\$10,897.32	\$6,510.72	\$35,426.48
<b>Total</b>	\$52,318.32	\$10,158.90	\$37,785.45	\$22,575.33	\$122,838.00

The project ledger is presented in Exhibit B.

**Recommendation**

The following action is recommended:

Approval of the award of the engineering services contract to Hazen & Sawyer at a fee of \$122,838.00.

EXHIBIT A  
SCOPE OF SERVICES

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 the SOCWA Administration Building (at the J. B. Latham Treatment Plant) in Dana Point.
- II. Data Collection and Review. FIRM shall review all relevant as-built drawing, shop drawings and operation and maintenance manuals pertinent to the project. FIRM shall interview SOCWA Operations staff to develop necessary regarding the project.
- III. Effluent Flow Metering Evaluation. FIRM shall evaluate performance of proposed meter installation based on piping/channel configuration and hydraulics in upstream channel.
- IV. Implementation Evaluation. FIRM shall prepare an evaluation of the methodology to complete the proposed improvements while minimizing the impact on the treatment plant operations. Information prepared in this task will be used to define the milestones and limitations placed upon the contractor in the specifications.
- V. Technical Memorandum. FIRM shall summarize findings of Task III through IV in a technical memorandum. FIRM shall submit draft memorandum in one unbound hard copy and one electronic (\*.pdf) version. SOCWA shall review and provide comment. FIRM shall address all comments. FIRM shall submit final version of memorandum in one unbound hard copy and one electronic (\*.pdf) version.
- VI. Final Design. FIRM shall develop plans and specifications for the project elements in this RFP. Note that Division 0 of the Specifications is prepared by SOCWA staff.
- VII. 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).
- VIII. Final Design Cost Estimate. FIRM shall provide a detailed cost estimate with the 50% and 95% submittals.
- IX. AQMD Permitting Assistance. FIRM shall provide 16 hours of engineering staff time to assist with the permitting process for the standby power generator.

### Exhibit B

Project Cost Ledger: J.B. Latham Treatment Plant Miscellaneous  
Improvements 2017  
(Millions)

	Plant 1 Grit Basins	Effluent Flow Meters	Plant 1 Standby Power Generator	Effluent System Valves	Total
<b>Budget (2016/2017)</b>	<b>0.464</b>	<b>0.090</b>	<b>0.335</b>	<b>0.200</b>	<b>1.088</b>
<b>Budget Task Codes</b>	<b>3250-000</b>	<b>3251-000</b>	<b>3252-000</b>	<b>3253-000</b>	
<u>Actual Bid Costs- Constr.</u>	0.365	0.060	0.250	0.165	0.840
<u>Construction Change Orders</u>	0.000	0.000	0.000	0.000	0.000
<u>Study &amp; Design (Upfront Costs)</u>	0.052	0.010	0.038	0.023	0.123
Contingency	0.026	0.020	0.022	0.007	0.075
Construction Management	0.020	0.000	0.020	0.005	0.045
Utility/Permitting	0.000	0.000	0.005	0.000	0.005
<b>Total Project Costs</b>	<b>0.5</b>	<b>0.1</b>	<b>0.3</b>	<b>0.2</b>	<b>1.1</b>
<u>Spending</u>					
Spending	0.0	0.0	0.0	0.0	0.0
Remaining Spending	(0.5)	(0.1)	(0.3)	(0.2)	(1.1)
<b>Remaining Budget</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>*Grants</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Net SOCWA Costs</b>	<b>0.5</b>	<b>0.1</b>	<b>0.3</b>	<b>0.2</b>	<b>1.1</b>

# Agenda Item

**Legal Counsel Review:** No

**Meeting Date:** December 12, 2017

**TO:** SOCWA Board of Directors  
**FROM:** Betty Burnett, General Manager  
**STAFF CONTACT:** Sean Peacher, Environmental Compliance Safety Manager  
**SUBJECT:** Davit Base Installation and Removal for SOCWA Treatment Plants

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## Summary

SOCWA is currently utilizing fixed davit bases (in conjunction with portable davit arms) for fall protection purposes throughout SOCWA's three wastewater treatment facilities (PC2, PC15, and PC17). The existing fixed davit base system is due for replacement. SOCWA must replace the davit bases to maintain proper fall protection, safe confined space entry, and required confined space rescue training/operations. The davit bases being utilized presently within SOCWA's wastewater treatment facilities presently do not meet the 2007 American National Standards Institute (ANSI) requirements for fall protection. In addition, parts including additional davit arms are no longer available for purchase to maintain the existing equipment.

## Discussion/Analysis

On August 22, 2016, SOCWA issued a Request for Proposal (RFP), through Planet Bids, for the davit base installation and removal activities. There are a cumulative total of 62 existing wall mount and floor mount davit bases to be removed from the three wastewater treatment facilities. Installation costs include labor, hardware, certification of installation for each davit base (by Registered Engineer or Qualified Person), and training of SOCWA O&M employees on proper use and maintenance of equipment. There are a total of 105 wall mount and floor mount davit bases to be installed within the three wastewater treatment plants.

All new permanent davit bases were previously purchased by SOCWA through a different bidding process and will be supplied to the contractor for installation. A total of seven vendors were invited to submit a proposal, through Planet Bids, for the davit installations and removals.

The prospective bidders include:

- Pascal & Ludwig
- Jameson Engineering
- SS Mechanical Corporation
- Industrial Safety Supply Corporation
- Pacific Rim Fall Protection Inc.
- Gateway Pacific
- Pacific Hydrotech

SOCWA received one cost estimate prior to the proposal submittal date of October 5, 2016. The cost estimate received from Pacific Rim Fall Protection in the amount of \$104,637.24 includes installation by CA Licensed Contractor/Factory Trained Technician and Tuff Built Products Inc Certified Installer (required for warranty/recalls), all Hardware (304 Stainless Steel), Misc Fabrication Costs (12" stainless steel spacers needed for wall mount bases), all labor and related project expenses, and SOCWA employee Authorized User equipment training.



The October 13, 2016 SOCWA Engineering Committee meeting included a presentation regarding a proposal received from Pacific Rim Fall Protection for the above mentioned project. Members of the Engineering Committee requested two items regarding the presentation:

1. Alternative pricing as a check against the proposal provided by Pacific Rim Fall Protection
2. Allocation to the member agencies of the proposed costs

SOCWA staff contacted Pascal & Ludwig (P&L). P&L had been an original recipient of the Davit Base Installation and Removal RFP. The contractor had elected not to submit a proposal due to other bid work coinciding with the deadline for the RFP. SOCWA staff requested that P&L provide estimated pricing to provide a basis of comparison with the Pacific Rim Fall Protection cost estimate received. The comparative pricing was provided to Engineering Committee in the December 8, 2016 meeting and is presented below:

	Removal of Existing Davit Bases	Installation of New Davit Bases	Total
Pacific Rim Fall Protection	\$14,700.00	\$89,937.24	\$104,637.24
Pascal & Ludwig	\$60,000.00	\$97,000.00	\$157,000.00

### Fiscal impact

The Fiscal Year 2016/2017 budget is \$110,000 for the davit base installation and removal activities.

The following tables were presented to Engineering Committee in the December 8, 2016 meeting to show the breakdown of costs to the member agencies. The division of costs is based on the location of the each davit base within each of the treatment plants. The location of the davit base is the basis for assigning the cost of the davit base work to Liquids, Commons or AWT. Table 1 shows the allocation of cost according to Project Committee and Cost Center. Table 2 presents the allocation of the cost to each of the six impacted member agencies.

TABLE 1 - BREAKDOWN OF PACIFIC RIM FALL PROTECTION PROPOSAL

Davit Bases	Facility		No.	Proposed Cost
Removal of Existing	JBLTP	Liquids	21	\$4,979.03
Installation of New	JBLTP	Liquids	40	\$34,261.81
Removal of Existing	CTP	Common	17	\$4,030.65
Installation of New	CTP	Common	27	\$23,126.72
Removal of Existing	CTP	AWT	2	\$474.19
Installation of New	CTP	AWT	2	\$1,713.09
Removal of Existing	RTP	Liquids	22	\$5,216.13
Installation of New	RTP	Liquids	36	\$30,835.63
Removal of Existing	Subtotal		62	\$14,700.00
Installation of New	Subtotal		105	\$89,937.24
<b>Total Cost</b>				<b>\$104,637.24</b>

TABLE 2 - ALLOCATION OF PACIFIC RIM FALL PROTECTION PROPOSED COST

Facility		Proposed Cost	Allocation Of Costs					
			EBSD	CLB	MNWD	CSJC	SMWD	SCWD
JBLTP	Liquids	\$39,240.84			\$9,056.79	\$12,074.4	\$6,792.59	\$11,317.0
CTP	Common	\$27,157.36	\$812.01	\$10,295.3	\$7,943.53			\$8,106.47
CTP	AWT	\$2,187.28						\$2,187.28
RTP	Liquids	\$36,051.75			\$36,051.7			
		\$104,637.24	\$812.01	\$10,295.3	\$53,052.0	\$12,074.4	\$6,792.59	\$21,610.8

**Recommendation**

The Engineering Committee recommends that the Board of Directors award a contract to Pacific Rim Fall Protection in the amount not to exceed \$104,637.24.

# Agenda Item

**Legal Counsel Review:** N/A

**Meeting Date:** January 12, 2017

**TO:** Board of Directors

**FROM:** Betty Burnett, General Manager

**SUBJECT:** Annual Membership in CASA, NACWA, and Contribution to CASA Education Foundation

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Staff seeks the Board of Directors concurrence to submit membership payments to the following organizations: CASA, NACWA and CASA Education Foundation. Staff did not submit funding for these memberships with the FY 2016-17 Budget electing to consider O&M costs against budget at the time the invoices were due. As of the mid-year, Administration is within budget for memberships. Funding is therefore available within the existing budget to pay for these memberships. SOCWA has historically participated as a member in CASA, NACWA and last year SOCWA contributed to the CASA Education Foundation.

## CASA

The California Association of Sanitation Agencies represents California's local wastewater treatment agencies providing leadership, advocacy and industry information for the benefit of its member agencies, legislators and the public. CASA promotes partnerships in clean water and beneficial reuse issues that protect public health and the environment.

SOCWA has been a member in good standing at CASA for many years. SOCWA staff attend training at CASA conferences in policy, management and technology areas for wastewater treatment. CASA working groups for regulatory affairs, biosolids, state and federal legislation and sustainability offer core subjects areas where SOCWA staff participate.

CASA membership for the current fiscal year is \$12,855. Staff recommends participation in CASA as a SOCWA Administration Budget Expense.

## NACWA

The National Association of Clean Water Agencies (NACWA) is the primary advocate at the Federal level for sustainable environmental policies that balance protection and use of the nation's water resources. Information about NACWA and its current efforts is attached. SOCWA has been a long-standing member of NACWA.

Staff recommends continuing membership in NACWA for its importance in representing large urban wastewater treatment entities in federal legislative and regulatory areas. The 2016-17 membership cost is \$23,130.

# Agenda Item

**Legal Counsel Review:** No

**Meeting Date:** January 12, 2017

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

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## **New Business**

### **Finance**

#### **Cash on Hand Verification**

SOCWA staff is continuing to construct the modules in Financial Edge that allow for full tracking of all transactions inside of the financial system. As a part of that work, residual cash representing both unspent capital program deposits from member agencies and operations funding must be allocated to project committees and to specific projects and member agency. To accomplish this next step, staff will be locating and working with a variety of existing and historical records. The staff effort will have assistance and verification from the outside accounting firm Leaf & Cole using an agreed procedures approach.

The procedures will cover the time period starting July 1, 2014 through the close of the 2015-16 fiscal year, June 30, 2016. The work will seek to verify the historical capital spreadsheets which allocate amounts billed and collected as well as expenditures to each of the capital projects. The approach used will test statistical samples of project invoices and expenditures charged by year to arrive at an end or current capital balance. Assurance of relative accuracy will be determined from the consistency of the tested year ending cash balances for 2015 and 2016 with audited totals. Due to time commitments, the project is expected to get underway by early April 2017.

The result of this engagement will support the amount of cash on hand at June 30, 2016 that should be allocated to each on-going capital project and in-turn how that cash should be allocated to each member agency. At the conclusion of the project we will also determine how much cash remains that is not assigned to a particular capital project and will make recommendations on how those funds should be apportioned.

At the conclusion of the work, a report will be submitted to the Member Agency Finance Managers, the SOCWA Finance Committee and the Board.

#### **Budget Schedule FY 2017-2018**

Staff is currently in preparation of the 2017-2018 Draft Budget and the following schedule should be noted by the member agencies and shared with agency Finance Department staffs.

For the SOCWA O&M Budget, the following dates should be noted:

- 2/28/17 Major Cost Drivers, Labor Projections & Key Budget Assumptions to Finance Committee.
- 3/3/17 Draft Budget Distribution to Finance Managers
- 3/8/17 - Finance Managers/Agency - Staff will call to schedule  
3/15/17 review meetings with SOCWA Staff
- 3/28/17 Present Revised Draft Final O&M Budget and Member Agency Q&A to Finance Committee
- 4/6/17 Public Hearing and First Board Workshop, Board Direction
- 5/4/17 Second Board Meeting for Budget Approval

For the Capital Budget, the schedule is:

- 1/12/17 PC 17, PC 15 review Engineering Committee
- 2/9/17 PC 2 review Engineering Committee
- 3/9/17 CIP review Engineering Committee
- 4/6/17 Public Hearing, First Board Workshop
- 5/4/17 Second Board Meeting for Budget Approval

### **Environmental Compliance**

#### **CASA Regulatory Working Group Strategic Planning**

Amber Baylor, SOCWA Environmental Compliance Specialist attended the CASA Regulatory Workgroup's Strategic Planning Meeting in November, 2016. The planning effort resulted in an update to CASA strategies and initiatives for 2017, including:

#### **Strategies:**

- For the Water Committee a focus on four priorities were developed: California nutrient policy, pending California toxicity policy, chemicals of emerging concern, & storm water compliance.
- For the Land Committee a focus on six priorities were developed: sponsorship of a legislative bill (ADC/AB341/SB 1383), post Litigation effects in Kern County, methane as a short lived carbon pollutant, Caltrans compost specifications, Biosolids Technology, and use of Biosolids on fire ravaged lands.

#### **Initiatives:**

- Designate volunteers to take the lead position on identified strategies and direct policies to meet needs of CASA members.
- Meet with EPA Region 9 representatives, SCCWRP, & State Board to align industry objectives and form strategic partnerships with groups inside and outside industry with common interests to amplify efforts.

## Board Concurrence in Funding \$1000 for SCAP Challenge to State application of EPA Toxicity Test "TST"

Attached is a letter from SCAP requesting that its member agencies consider a \$1000 donation toward an upcoming litigation effort challenging the Test of Significant Toxicity ("TST") proposed use by the State as recommended by EPA. The US EPA has failed to follow Administrative Procedures Act adoption procedures in recommending to the States the use of the TST as an alternative to the Whole Effluent Toxicity testing for NPDES permit compliance. The TST is known to produce routine false positive results when applied in a fresh water aquatic species environment testing.

SOCWA would generally prefer the use of the TST for permit compliance testing because the test has not been shown to produce significant false positive results in ocean water environments with ocean species. The salient issue here is that the State Water Board would impose mandatory minimum penalties for Chronic Toxicity exceedances using the TST method if the method remains in the proposed update to the State Board's Toxicity Policy. Again, the problem with the imposing penalties for the TST is that the test is known to produce routine false results and the method was not put through EPA's method approval process. SOCWA staff supports those criticisms as raised by SCAP.

### **Key Points of the Lawsuit:**

- SCAP is challenging the use of the 'TST' method for toxicity testing.
- There are three main ways to measure toxicity. Two approved methods codified in the Code of Federal Regulations use quantitative statistical measures based on chronic toxicity limits (TUc). The other test is the alternative test procedure (ATP) that has approved by the EPA and is qualitative: the TST method which produces a pass/fail answer to toxicity.
- The TST represents an ATP and the lawsuit maintains that the USEPA is mandating the use of the two-concentration TST test for all new NPDES permits for discharge to ocean and inland waterways when the TST was not approved through the APA and incorporated into the CWA 40 C.F.R. 136.

### **Implications for SOCWA:**

On July 9, 2013, the San Juan Creek Ocean Outfall exceeded the chronic toxicity performance goal of 101 TUc established in the NPDES permit order R9-2012-0012. Nautilus Labs, the contract lab who performed the toxicity tests used both the NOEC, the TUc, and the TST methods to evaluate the sample results. Although we exceeded the NOEC and TUc limits the TST method produced a Pass result. If the NPDES permit would have allowed the TST limit the SOCWA results would not triggered the additional toxicity testing frequencies as well as the additional priority pollutant testing that is used to identify the source of the toxic results. The additional testing did not find any evidence as to exceedance of the toxicity limits, but it was costly to conduct and there would have been a savings of public agency funds if the additional priority pollutant testing was not required. SOCWA would like to see a formal EPA rulemaking process that would address the recommended uses for the TST test.

SOCWA intends to request the San Diego Regional Water Quality Control Board for the ability to use the TST method in the analysis of chronic toxicity in the next permit cycle as an additional screening tool and indicator of true toxicity effect; but SOCWA would not welcome the Regional Board using the test to assess penalties for failures due to the potential for the test to indicate a false result.

One important point to note is that the results of the Storm Water Monitoring Council study (conducted by Southern California Coastal Research Program) is due to be released within the next couple of weeks. The results of the study showed false positive toxicity results in control blank samples, proving the statistical bias in the TST test. Also of note is that the SWQCB will be holding a hearing about their Toxicity Plan on December 23, 2016 which may settle some of the concerns brought about in the SCAP/CVCWA lawsuit.

**Recommendation: Staff seeks the Board concurrence to make a contribution to SCAP of \$1000 for the challenge to the State action in using the TST without EPA approval in accordance with the APA; with contribution to come from PC 15, 17, 2, 5 and 24 agencies as a common expense.**

## **Operations & Maintenance**

### Business Emergency Plans transition to EPA's CERS System

Sean Peacher, SOCWA's Compliance Safety Office, and SOCWA Operations Department staff coordinated with County officials to transition SOCWA's business emergency plans from the County's websystem to the EPA's websystem. The process also included a complete review of all emergency plan documents, maps and figures, staff contacts, hazardous materials inventories, and inspections by Orange County Health Department staff.

### New Chief Operator Transition at the Coastal Treatment Plant

Jason Protopappas was promoted to Chief operator of the Coastal Treatment Plant for the retiring Hillary Kelly. Jason has almost 20 years of wastewater treatment experience to the position. Jason holds a Grade V Wastewater Treatment Plant Operator License from the State Water Board. Jason and the Ops Team at CTP have been meeting with SCWD staff regarding this transition to help ensure good communications regard operation of the AWT at CTP.

### Staff preparing for new Engines at JBL

O&M staff has been attending numerous training sessions in preparation of the new engine system coming online in February 2017. The training includes the engine, gas cleaning systems, emission control systems, and the process control equipment. These training sessions will continue through the end of January, 2017.

### Engines Shutdown at RTP

The last two engines at RTP have been permanently shut down as part of a replacement and upgrade project as planned. The new engine is expected to be operational later this Summer. As budgeted, RTP will be purchasing additional electricity during this transition. The engines typically offset about \$30,000 per month in energy costs.

## **Human Resources**

Staff is pleased to welcome Mr. Jason Manning as SOCWA's new Sr. Engineer. Mr. Manning comes to SOCWA with a P.E. in Civil Engineering holding a degree in Chemical Engineering. Mr. Manning has previously worked for Arcadis US, Inc. and brings wastewater treatment and project management experience with him.

Staff would also like to welcome Mr. Fernando Rosas-Duarte as SOCWA's new Operator II, holding a grade III certification. Mr. Duarte comes to SOCWA from The Department of Navy in Camp Pendleton where he was a Wastewater Plant Operator. Mr. Duarte also worked for the City of San Luis, Arizona as a Wastewater Plant Operator.