

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


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

AGENDA

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

Thursday, March 2, 2017
8:30 a.m.

THE BOARD OF DIRECTORS MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E. ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.), PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY’S SECRETARY’S OFFICE AT 949-234-5421 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA (“AUTHORITY OFFICE”). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN 72 HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE BOARD OF DIRECTORS MEETING ROOM.

1. CALL MEETING TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ORAL COMMUNICATIONS

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

4. CONSENT CALENDAR

A. Approval of Minutes

ACTION	The Board will be requested to approve subject Minutes.	
Board of Directors Meeting February 2, 2017.....		1
Board of Directors Meeting October 26, 2016.....		7
Board of Directors Meeting June 9, 2016.....		10
Engineering Committee January 12, 2017.....		14
Budget Workshop May 18, 2016.....		18

B. Financial Matters

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

Monthly Financials Report.....44

a) Summary of Disbursements for December 2016 – Exhibit A.....45

b) Schedule of Funds Available for Reinvestment – Exhibit B.....46

c) Schedule of Cash and Investments – Exhibit C.....47

d) Capital Projects Summary – Exhibit D.....48

Capital Projects Budget vs. Actual Graph – Exhibit D1.....49

e) Budget vs. Actual Expenses – Exhibits E1-E4

Operations/Maintenance & Environmental Safety Costs – Exhibit E1.....50

Engineering Budget vs. Actual Comparison – Exhibit E2.....52

Administration Budget vs. Actual Comparison – Exhibit E3.....53

Information Technology (IT) Budget vs. Actual Comparison – Exhibit E4.....54

C. Operational Reports

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

1) Monthly Operations Report – January 2017.....57

2) Ocean Outfall Discharges.....64

3) Beach/Ocean Monitoring Report.....66

4) Recycled Water Report.....89

5) Pretreatment Report.....93

D. Capital Improvement Program

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

Status Report.....97

E. Project Committee No. 2

1) Approval of Minutes

ACTION The PC2 Board will be requested to approve subject Minutes.

Minutes – May 23, 2016.....113

2) Change Order – Gateway Pacific Construction Contract.....115

ACTION The PC2 Board will be requested to approve Change Orders 37 and 38 to the construction contract with Gateway Pacific for the JB Latham Treatment Plant Facility Improvements Packages ‘A’ and ‘C’ Project.

F. Project Committee No. 15

1) Approval of Minutes

ACTION The Board will be requested to approve subject Minutes.

Minutes – February 16, 2017.....118

Minutes – February 2, 2017.....120

Minutes – April 25, 2016.....122

Minutes – April 7, 2016.....125

Minutes – March 17, 2016.....127

Minutes – March 16, 2016.....129

Minutes – February 26, 2016.....131

2) Change Order – Dudek Design & Environmental Services Contract.....148
ACTION The PC15 Board will be requested to approve Change Order 5 to the design and environmental services contract with Dudek for the Coastal Treatment Plant Export Sludge System Replacement Project.

3) Change Order – Pascal& Ludwig Construction Contract.....151
ACTION The PC15 Board will be requested to approve Change Order 5 to the construction contract with Pascal & Ludwig for the Coastal Treatment Miscellaneous Improvements 2015 Project.

G. Project Committee No. 17

Change Order – Butier Engineering Construction Management Contract.....152
ACTION The PC17 Board will be requested to approve Change Orders 4 and 5 to the construction management contract with Butier Engineering for the Regional Treatment Plant Cogeneration and Switchgear Upgrade Project.

H. Project Committee No.'s 15 & 21

1) Award of Emergency Services Environmental Services for Aliso Canyon Storm Damage Repair.....155
ACTION The PC15 & PC21 Board will be requested to approve the award of the environmental services contract to Dudek at fee of \$94,150.

2) Award of Emergency Services Engineering Services for Aliso Canyon Strom Damage Repair.....166
ACTION The PC15 & PC21 Board will be requested to approve the emergency evaluation and design services contract to TetraTech at a fee of \$140,000.

5. ENGINEERING MATTERS

A. Award of Upgrade Services Contract – J.B. Latham Treatment Plant.....171
ACTION The Board will be requested to approve the award of the upgrade services contract to Andritz at a fee of \$179,436.

6. GENERAL MANAGER'S REPORTS

A. General Manager's Status Report.....173
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 HELD ON
APRIL 6, 2017 AT 8:30 A.M.

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

Board of Directors

February 2, 2017

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

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

Absent:

BILL CAMERON, City of San Clemente	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
DOUG REINHART, Irvine Ranch 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
DINA ASH	Human Resource Analyst
TERI NOSON	Executive Assistant/Assistant Secretary

Also present:

DONALD FROELICH	Moulton Niguel Water District
FRED ADJARIAN	El Toro Water District
DENNIS ERDMAN	South Coast Water District
RICK ERKENEFF	South Coast Water District

Chairman Ferons called the meeting to order at 8:30 a.m. and welcomed everyone present. Director Dunbar 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.

Chairman Ferons referenced the provided newspaper article *Iseman Hits a Milestone* congratulating Chairman Iseman on her fifth term as member of the Laguna Beach City Council and her fourth-term as City of Laguna Beach Mayor.

ACTION TAKEN

No action required.

Consent Calendar

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

Director Collings requested to pull Item 4. A. Minutes for the November 3, 2016 Board of Directors meeting for discussion.

Ms. Burnett requested to pull C. 6) Pretreatment Report for staff comments.

Director Brunhart requested to pull the following items from the Agenda:

Item 4. A. Board of Director Minutes for October 26, 2016, for delayed approval.

Item B. d) Capital Project Summary vs. Actual Graph Exhibit D1 for discussion.

Item D. Capital Improvement Program Status Report for discussion.

Item E. Project Committee No. 15 the Minutes for April 25, 2016, April 7, 2016, March 17, 2016, March 16, 2016, and February 26, 2016 for delayed approval.

ACTION TAKEN

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

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

Item: 4. A. Board of Directors Minutes November 3, 2016

Director Collings noted page 15 of the Agenda book and stated that the Summary of Actions reflected that the Project Committee No. 15 Budget minutes as approved. Director Collings reported that MNWD disputes that the budget was approved and that the required unanimous vote for capital improvement project budget was not achieved, and stated for the record that MNWD was electing a no vote to approve the minutes. Director Collings stated that an option that would be amendable to MNWD would be for the Board to provide a foot note that MNWD disputes that that budget was approved.

Chairman Ferons reported that a no vote was reflected in November 3, 2016, minutes and asked Ms. Giannone to confer. Ms. Giannone concurred with Chairman Ferons that the no vote was reflected in the November 3, 2016 minutes.

ACTION TAKEN

Motion was made by Director Dopudja and seconded by Director Dunbar to approve the Board of Directors Minutes for November 3, 2016.

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

Director Dunbar	Aye
Director Goldman	Aye
Director Miller	Aye
Director Collings	No
Director Reinhart	Absent
Vice Chairman Iseman	Aye
Chairman Ferons	Aye
Director Brunhart	Aye
Director Dopudja	Aye
Director Rebensdorf	Aye

Item: B. d) Capital Project Summary vs. Actual Graph Exhibit D1

Item: D. Capital Improvement Program Status Report

Director Brunhart referenced page 4, Fin Exhibit D-1 and reported that there was \$3.1m with an executed amount of \$714,505 on PC15 CTP and inquired on the short fall in execution.

Mr. Peck reported that several of those items involved miscellaneous improvements project, which at the time of budget for the year was anticipated to go out to bid for that project in July. During the summer staff made a decision to delay the project bidding and project development due to the uncertainty that the PC15 funding was going to be available for capital projects.

Ms. Burnett stated that each of those items were items that were included in plans that were in place for quite a number of years, and; without certainty that there would be deposited capital to meet the plan for spending for the year, the General Manager and engineering staff, out of abundance of caution, delayed the project bidding and developing.

Director Brunhart referenced pages 98, 99, 100 and noting the change of bid dates for the influent gates, from December 2006 to Feb. 2017, and inquired if this was due to a delayed lack of funding.

Mr. Peck reported that the project delay was due to internal staffing and priorities for staffing and that staff needed to address some different issues. The project would be going out to bid next week.

Director Burnhart inquired if that also applied to the other seven projects that were previously listed in December as going out to bid that are now going out in February.

Mr. Peck reported those projects were all under a single package.

Director Burnhart inquired if those projects were delayed for internal work process reasons or because of lack of funding.

Mr. Peck reported that the delay between December and February was due to internal process and from July to December staff delayed the project due to concerned funding.

Director Brunhart inquired if there were any current projects being held up due to lack of funding. Mr. Peck reported no.

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Goldman to approve Item: B. d) Capital Project Summary vs. Actual Graph Exhibit D1, and Item: D. Capital Improvement Program Status Report as submitted.

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

Director Goldman	Aye
Director Miller	Aye
Director Collings	Aye
Director Reinhart	Absent
Vice Chairman Iseman	Aye
Chairman Ferons	Aye
Director Brunhart	Aye
Director Dopudja	Aye
Director Rebensdorf	Aye

Item: C. 6) Pretreatment Report

Ms. Greenwood, provide a summary report referencing the Dental Amalgam Rule and Sewer Diversions as submitted in the Pretreatment Report. A brief open discussion ensued.

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Dunbar to approve Item: C. 6) Pretreatment Report as submitted.

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

General Manager's Report

FY2016-17 Mid-Year Budget Update for Small Internal Capital Items

ACTION TAKEN

There being no objection Chairman Ferons directed that the FY2016-17 Mid-Year Budget Update for Small Internal Capital Items be received and filed as submitted.

General Manager's Status Report

ACTION TAKEN

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

Other Matters

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

Closed Session

There being no objection from the Board, Chairman Ferons announced the Closed would not be held.

Adjournment

There being no further business, Chairman Ferons deferred to Director Brunhart to adjourn the meeting.

Director Brunhart reported that Mr. Bob Moore, former SOCWA Board Director representing South Coast Water District, recently passed away at the age of 92. Director Brunhart provided a summary of Mr. Moore's achievements and noted his long history of dedication to public service.

The SOCWA Board meeting adjourned at 10:50 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 February 2, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

February 2, 2017

<u>DESCRIPTION</u>	<u>MOTION MADE BY</u>	<u>ACTION</u>
Consent Calendar	Miller	Approved
Board of Directors Minutes November 3, 2016	Dopudja	Approved
Capital Project Summary vs. Actual Graph Exhibit D1	Collings	Approved
Capital Improvement Program Status Report	Collings	Approved
Pretreatment Report	Goldman	Approved

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

Board of Directors

October 26, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Wednesday, October 26, 2016 at 9:00 a.m. at the Dana Point Marian Inn, in the Dana Point Room, located at 24800 Dana Point Harbor Drive, Dana Point, California. The following members of the Board of Directors were present:

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	Vice Chairman
DAN FERONS, Santa Margarita Water District	Chairman
ANDY BRUNHART, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
BILL CAMERON, City of San Clemente	Director
MIKE DUNBAR, Emerald Bay Water District	Director

Staff present:

BETTY BURNETT	General Manager/Secretary
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
TERI NOSON	Executive Assistant/Clerk of the Board
JIM BURROR	Director of Operations [arrival 9:35 a.m.]

Also present:

MICHELE TAMAYO	Tamayo Group, Inc.
RICK ERKENEFF	South Coast Water District
HECTOR RUIZ	Trabuco Canyon Water District
JAKE VALLEBREGT	Moulton Niguel Water District
JOHN PIETIG	City of Laguna Beach
FRED ADJARIAN	El Toro Water District
DAVID SHISSLER	City of Laguna Beach
MATT COLLINGS	Moulton Niguel Water District
ROGER BUTOW	Clean Water Now

Chairman Ferons called the meeting to order at 9:02 a.m. and welcomed everyone present.

Public 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.

SOCWA Joint Powers Authority (JPA) Agreement

Ms. Tamayo inquired the consideration of weighted voting of each member agency. An open discussion ensued.

ACTION TAKEN

Based on today's meeting input a motion was made by Director Dopudja and seconded by Director Lopez that the Board would not consider weighted voting at this time.

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

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

The Chairman adjourned the Board meeting for a brief recess at 9:55 a.m.

The Board meeting reconvened at 10:04 a.m.

The Board went into closed session at 10:05 a.m.

CLOSED SESSION

- A. Closed Session will be conducted under Government Code Section 54956.9 for the following purpose:

POTENTIAL LITIGATION – IN 1 MATTER

The Board meeting reconvened at 11:04 a.m.

Board Exercise of Option Under Section 6.4 of the SOCWA JPA Agreement to Respond to MNWD Non-approval of the SOCWA FY 2016-17 Budget; Notice of Withdraw from SOCWA

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Dopudja to direct staff to reagentize the SOCWA Administrative/General budget and individual Project Committee budgets with operation and maintenance capital for consideration at the November 3, 2016 Board of Directors meeting.

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

Chairman Ferons	Aye
Director Goldman	Aye
Director Miller	Aye
Director Lopez	Aye
Director Reinhart	Aye
Director Pietig	Aye
Chairman Dunbar	Aye
Director Brunhart	Aye
Director Dopudja	Aye
Director Cameron	Aye

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 11:12 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Board of Directors of October 26, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Board of Directors

June 9, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Thursday, June 9, 2016 at 8:00 a.m. at Best Western, 34280 Pacific Coast Highway, 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
RICK ERKENEFF, South Coast Water District	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director
DOUG REINHART, Irvine Ranch Water District	Director
BILL CAMERON, City of San Clemente	Director

Staff present:

BETTY BURNETT	General Manager/Secretary
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Also present:

Michelle Tamayo	Tamayo Group, Inc.
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Chairman Feron called the meeting to order at 8:15 a.m. and welcomed everyone present. Director Miller led the Pledge of Allegiance to the Flag of the United States of America.

Public Comments

Chairman Feron 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.

Strategic Workshop

Ms. Tamayo presented the PowerPoint Presentations herewith attached to these minutes. An open discussion ensued throughout the presentation.

ACTION TAKEN


No action required, discussion item only.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Board of Directors of June 9, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

SOCWA Interview Highlights

June 9, 2016



PURPOSE

Get Board & Management Input to:

- ◆ Assess where the organization is today
- ◆ Identify key issues & challenges
- ◆ Clarify where we want to be
- ◆ Develop practical & relevant strategic plan to accomplish specific goals

Organizational Strengths

- ◆ Workforce/Staff
- ◆ Improved M & O
- ◆ Improved morale
- ◆ Good environmental steward
- ◆ GM & supportive Board
- ◆ Core services: treatment, permitting, disposal
- ◆ Project committee structure: can be effective... but contributes to complexity, dysfunction, disintegration

Needs/Challenges

1. Clarify our purpose — what do we do, want to be known for?
2. Anticipate & prepare for future challenges
3. Acknowledge/understand cost allocations & impact on agencies
4. Address voting/equity issue; investigate other models (EWA...)
5. Optimize plant usage
6. Find a way to utilize wastewater as a resource
7. Recycling

Needs/Challenges cont.

8. Continue to focus on “getting our house in order”
9. Clarify what unites us (10 different agencies w/ different needs)
10. Review JPA agreement
11. Review governance model
12. Right-size pay & benefits
13. Bio solids plan
14. Improve communication: Board, Staff, Oral and Written

Vision Question

**Keep to our core business, or ...
look for opportunities to broaden,
benefit the region?**

Priorities

1. Treat wastewater
2. Get our house in order: organizational issues, effective/efficient operations, budget process, permits, maintain environmental record
3. Keep up with industry standards, issues
4. Resolve budget, voting issue
5. Asset management plan for maintenance
6. Innovation
7. Water reuse—sustainability
8. Bio solids plan
9. Research & find grants

Board Effectiveness

3.5 rating on 5 point scale of effectiveness. To be a 5:

- ◆ Collective agreement & clear direction to GM
- ◆ More cohesion, build trust
- ◆ Agree on spending formula, voting issue
- ◆ Open, honest input from all; healthy dialogue; talk about tough stuff
- ◆ Stay on topic, make consensus decisions
- ◆ Stay in our role-policy level
- ◆ Clarify PC vs. Board roles
- ◆ SOCWA hat vs. Agency hat

Workshop Expectations

- ◆ Clear sense of where we are; our purpose
- ◆ Clarity of issues prior to developing strategic plan
- ◆ Decide what direction we want to go
- ◆ Cohesion among Board members: clarify role, build trust
- ◆ Provide clear direction for staff
- ◆ Consensus on what to focus on in next few years

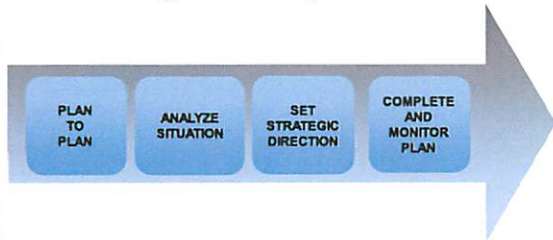
Strategic Planning

- ◆ Planned and thoughtful way of creating an organization's future
- ◆ Organized, systematic planning effort
- ◆ Clarifies current reality
- ◆ Sets the future direction for the organization
- ◆ Provides roadmap for work to be done

Strategic Thinking

- ◆ Looks Forward — “Aim Frame”
- ◆ Critical Assessment — What's working? What's not? What makes sense today?
- ◆ Challenges Conventional Thinking & Practices
- ◆ Explores Possible Options
- ◆ Based on Data and Information, not Assumptions
- ◆ Asks “What if ... ?”

Strategic Planning Process



Some Strategic Planning Tools

- ✓ Environmental Scan
- ✓ Stakeholder Assessment
- ✓ SWOT Analysis
- ✓ Mandates Review
- ✓ Process Mapping
- ✓ Visioning
- ✓ Gap Analysis
- ✓ Affinity Diagramming
- ✓ Budget
- ✓ CIP

Strategic Plan Elements

- ◆ Mission
- ◆ Vision
- ◆ Values
- ◆ Strategic Focus Areas
- ◆ Goals — S.M.A.R.T.
- ◆ Objectives, Action Strategies, Initiatives

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

Engineering Committee

January 12, 2017

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was held on Thursday, January 12 2017, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members were present:

MARC SERNA	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District [exit 9:10 a.m.]
RICK SHINTAKU	South Coast Water District
DAVID SHISSLER	City of Laguna Beach
ERIC BAUMAN	City of San Juan Capistrano [exit 9:10 a.m.]
DENNIS CAFFERTY	El Toro Water District [exit 9:43 a.m.]

Absent:

HECTOR RUIZ	Trabuco Canyon Water District
KEVIN BURTON	Irvine Ranch Water District
DAVE REBENDSORF	City of San Clemente
MICHAEL DUNBAR	Emerald Bay Service District

Staff present:

BRIAN PECK	Director of Engineering
RONI YOUNG-GRANT	Associate Engineer
JASON MANNING	Senior Engineer
JEANETTE COTINOLA	Procurement/Contracts Administrator
JIM BURROR	Director of Operations [arrival 8:45 a.m.]

Also Present:

DENNIS ERDMAN	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District

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.

Review/Approval of Meeting Minutes

ACTION TAKEN

Motion was made by Mr. Bunts and seconded by Mr. Serna to approve the December 8, 2016, Engineering Committee Meeting minutes as submitted.

Motion carried: Aye 6; Nay 0; Abstain 0; Absent 4

Michael Dunbar	Absent
Kevin Burton	Absent
Rick Shintaku	Aye
Marc Serna	Aye
Dave Rebensdorf	Absent

Don Bunts	Aye
Hector Ruiz	Absent
Dennis Cafferty	Aye
David Shissler	Aye
Eric Bauman	Aye

Operations Report

DISCUSSION:

No Operations Report was presented.

ACTION TAKEN

No action taken at this time.

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

DISCUSSION:

Mr. Peck noted that there had been some issues regarding the setting of the relays for the co-generation system. These issues are moving to resolution. The project appears to be on schedule for completion at the end of February, 2017. There are two potential change orders currently being evaluated by Butier Engineering. However, these items are not ready for presentation at this time.

ACTION TAKEN

No action necessary at this time.

J. B. Latham Treatment Plant Facility Improvements Packages A/C SGIP Proposal Review [Project Committee 2]

DISCUSSION:

Mr. Peck noted that SOCWA had received two proposals for firms that are able to monitor the cogeneration system performance. It is required to use a San Diego Gas & Electric approved firm for this work as part of the SGIP program. Both of the proposals involved fees lower than SOCWA's \$25,000 purchase order threshold. SOCWA is therefore acting on this item under its purchase order policy.

ACTION TAKEN

No action necessary at this time.

Regional Treatment Plant Switchgear and Cogeneration Upgrade Construction Project Update [Project Committee 17]

DISCUSSION:

Mr. Peck noted that the new boiler had been started up and the existing co-generation engines had been removed from service prior to December 31, 2016, in accordance with AQMD regulations. Mr. Peck noted that Butier Engineering and Pacific Hydrotech had come to agreement regarding the remaining construction schedule. The project is now scheduled for an August, 2017, completion with start-up of the new co-generation system expected in June, 2017.

Mr. Peck presented Change Order Request Nos. 6 through 8 for the project. Change Order No. 6 involved the repair of piping to an existing fire hydrant. During the excavation for the new gas treatment system the existing underground piping supplying to fire hydrant was

found to be severely corroded. The proposed cost for Change Order No.6 is \$7,671.65. Change Order No. 7 involved the addition of emergency stop buttons for the boiler. Emergency stops for the boiler were added at each entry into the Engine Room per NFPA requirements. The proposed cost for Change Order No.7 is \$16,818.98. Change Order No. 8 is for the addition of a chemical bypass feeder. This feeder will allow conditioning of the water in the closed loop for the boiler system. The proposed cost for Change Order No.8 is \$2,636.11.

Mr. Peck reviewed a proposed amendment for construction management services from Butier Engineering. Mr. Peck noted that the Butier contract ran through October, 2016. Mr. Peck developed a preliminary scope for the contract amendment; Butier countered with an amendment that was over twice the cost. The key difference between the proposals was the amount of time for the inspector. Mr. Peck's scope was based on a half-time inspector; the Butier scope included a full time inspector. Mr. Peck and Butier disagree on the amount of time needed for inspection. Discussion ensued. Several members of the Engineering Committee concurred that a full time inspector did not seem warranted for the work. Mr. Peck is to obtain alternative construction services proposals to present at the February Engineering Committee meeting.

ACTION TAKEN

The present Project Committee No. 17 members recommended Change Orders Nos. 6, 7, and 8 to the construction contract with Pacific Hydrotech for the Regional Treatment Plant Cogeneration and Switchgear Upgrade for action by the Board of Directors.

Regional Treatment Plant Capital Improvement Budget '17/'18 Review

[Project Committee 17]

DISCUSSION:

Mr. Peck reviewed the anticipated additions to the capital improvement budget in Fiscal Year '17/'18. Mr. Peck noted that the center piece project for the year would be a comprehensive project including replacement of the scum skimmers, replacement of the mannich polymer system, upgrades to the DAF system, rerouting of the secondary treatment power supply and replacement of portions of the outdoor lighting system. The project also included contingencies for the Cogeneration and Switchgear Upgrade Project. Mr. Peck noted that the projects for upgrades to AWT No.2 and the aeration system would be included in the Fiscal Year '18/'19 budget.

ACTION TAKEN

Project Committee 17 Engineering Committee staff members were asked to provide any comments regarding the proposed additions to budget by the March Engineering Committee meeting.

Coastal Treatment Plant Facility Improvements Plan Review

[Project Committee 15]

DISCUSSION:

Mr. Peck presented the memorandum "Evaluation of Facility Improvements at the Coastal Treatment Plant". This memorandum was prepared by SOCWA staff as an executive summary to the work done by CH2MHill. Mr. Peck reviewed (a) the goals of the project; (b) the history of the facility; (c) the assumptions regarding capacity ownership; (d) the selection of a secondary treatment process; (e) basin utilization, and (f) anticipated project costs. Mr. Peck

discussed how the proposed project improvements would relate to the future modifications to recycled water production. Discussion ensued.

ACTION TAKEN

No action necessary at this time.

Coastal Treatment Plant Capital Improvement Budget '17/'18 Review

[Project Committee 15]

DISCUSSION:

Mr. Peck reviewed the Ten Year Plan at the end of the "Evaluation of Facility Improvements at the Coastal Treatment Plant" memorandum. Mr. Peck noted that there had been discussion with individual Project Committee 15 members regarding whether or not the Ten Year Plan reflected all of the plant assets that had reached the end of their use life. Mr. Peck directed the Committee's attention to the first page of the Ten Year Plan which showed the anticipated additions to the capital improvement budget in Fiscal Year '17/'18. Mr. Peck noted the Facility Improvements line item is to cover only the design portion of the project. Mr. Peck indicated that he would provide the cost loading budget prior to the next Engineering Committee meeting.

ACTION TAKEN

Project Committee 15 Engineering Committee staff members were asked to provide any comments regarding the proposed additions to budget by the March Engineering Committee meeting.

Coastal Treatment Export Sludge System Project Update

[Project Committee 15]

DISCUSSION:

Mr. Peck indicated that SOCWA was currently reviewing a change order proposal from Dudek, This item is not ready for presentation at this time.

ACTION TAKEN

No action necessary at this time.

Adjournment

There being no further business, Mr. Peck adjourned the meeting at 9:56 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 January 12, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Board of Directors

Budget Workshop

May 18, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on Wednesday, May 18, 2016 at 12:00 p.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	Chairman
FRED ADJARIAN, El Toro Water District	Alternate Director
RAY MILLER, City of San Juan Capistrano	Director
JOONE LOPEZ, Moulton Niguel Water District	Director
TONI ISEMAN, City of Laguna Beach	Director
DAN FERONS, Santa Margarita Water District	Vice Chairman
RICK ERKENEFF, South Coast Water District	Director
BILL CAMERON, City of San Clemente	Director
STEPHAN DOPUDJA, Trabuco Canyon Water District	Director

Absent:

DOUG REINHART, Irvine Ranch Water District	Director
SCOTT GOLDMAN, El Toro Water District	Director

Staff present:

BETTY BURNETT	General Manager/Secretary
BRIAN PECK	Director of Engineering
BRENNON FLAHIVE	Environmental Compliance Administrator
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller

Also present:

DAVID REBENS DORF	City of San Clemente
CAROLYN RATHBONE	South Coast Water District
ANDY BRUNHART	South Coast Water District
DENNIS CAFFERTY	El Toro Water District
NEELY SHAHBAKHTI	El Toro Water District
HECTOR RUIZ	Trabuco Canyon Water District
MATT COLLINGS	Moulton Niguel Water District
TREVOR AGRELIUS	Moulton Niguel Water District

Chairman Dunbar called the meeting to order at 12:00 p.m. and welcomed everyone present. Director Miller led the Pledge of Allegiance to the Flag of the United States of America.

Oral Comments

Chairman Dunbar 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.

ACTION TAKEN

No action required.

Budget Workshop – Review of Proposed SOCWA FY 2016/17 Capital & Operating Budget

The PowerPoint presentation *SOCWA Budget Workshop 2016/2017 Fiscal Year* is herewith attached to these minutes. An open discussion ensued throughout the presentation.

ACTION TAKEN

No action required, information item only.

Adjournment

There being no further business, Chairman Dunbar adjourned the meeting 2:00 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Budget Workshop of May 18, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

SOCWA Budget Workshop 2016/2017 Fiscal Year

Workshop Objectives

- Review Proposed FY 2016 – 2017 Budget
 - Per Board Instructions Finance Managers and Agency Representatives Budget Review Completed
- Highlights of 2015–2016
- Future Objectives 2016–2017
- Budget Overview 2016–2017
- Department Budgets & Objectives

2015–2016 Accomplishments

▶ Financial

- ❑ Created a Financial System
- ❑ Avoid Over-Collecting and Large Refunds
 - March 2016 - O&M Expenditures
 - O&M 67.1 %
 - IT 77.9%
 - Engineering 52.8%
 - Administration 70.8%
- ❑ PARS Savings; Fixed Retirement/Medical issues
- ❑ Purchasing & Contracting

3

2015–2016 Accomplishments

- ▶ Get our Engine Running Smoothly
 - Streamlining Improvements
 - Maintenance Management/Tracking,
 - HR Improvements
 - Consolidated Positions & Reorganized Departments
 - Successful Retirements & Hiring
 - Safety Program

4

2016-2017 Goals Continuous Improvements to Run Smoothly

- Focus on Efficiency
 - Spending
 - Hiring
 - Technology
- Focus on Cost Containment / Control
 - Plan for Next MOU and Consider Benefits
 - Utilize Technology to Gain More Work Hours
 - Cross Training and Skills Improvements
 - Capital Program Decisions

5

Fiscal Year Budget Comparison

2015 - '16	\$18,601,624	
<u>2016 - '17</u>	<u>\$19,623,760</u>	
□ Growth	\$ 1,022,136	
□ Increase Drivers (more than in '15/'16)		
▪ Payroll (cola)	\$ 290,575	3% Merit & 1.%
▪ O&M	\$ 352,520	Engines, Electricity
▪ Mgt. Services	\$ 187,024	Projects, Permitting
▪ Legal & Audit	\$ 93,512	"Prior", Capital, Permits
▪ IT	\$ 71,228	Tech Improvements

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Management Support Services

□ Administration

FY '15 - '16 \$292,000

FY '16 - '17 \$215,004

□ Engineering

FY '15 - '16 \$ 0

FY '16 - '17 \$ 39,996

□ Operations & Maintenance + Environmental Compliance

FY '15 - '16 \$ 70,000

FY '16 - '17 \$294,024

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Management Support Services

□ Administration

- Strategic Planning
- Contracting Practices Improvements
- Web-site support
- Public Information & Outreach to Electeds (Regional and State)
- SRF Loan and Grant Opportunities
- Real Property Valuation to support Asset Evaluations

□ Engineering

- Outside General Engineering Services

□ Operations & Environmental Compliance

- Engine start up testing and emissions
- Permitting renewals - NPDES, Recycled H2O, Storm Water
- Tabware new module implementation
- CTP Road issues, Community Outreach
- Outside Technical Services

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SOCWA 5 Year Budget by Member Agency

FY 2015-16	FY 2016-17	Change %	FY 2017-18	Change %	FY 2018-19	Change %	FY 2019-20	Change %	FY 2020-21	Change %	Total 5 Years
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SOCWA by Member Agency

City of Laguna Beach	1,990,298	2,229,831	12.0%	2,313,198	3.7%	2,399,812	3.7%	2,495,288	4.0%	2,579,389	3.4%	12,017,455
City of San Clemente	143,305	115,987	-19.1%	145,692	25.6%	141,249	-3.0%	141,220	0.0%	145,013	2.7%	689,132
City of San Juan Capistrano	2,238,795	2,398,517	7.1%	2,402,729	0.2%	2,462,955	2.5%	2,531,287	2.8%	2,630,799	3.9%	12,426,336
El Toro Water District	868,212	954,342	9.9%	1,002,103	5.0%	1,044,915	4.3%	1,089,693	4.3%	1,119,448	2.7%	5,210,455
Emerald Bay Service District	80,822	90,157	11.6%	93,102	3.3%	96,599	3.8%	100,297	3.8%	103,694	3.4%	483,848
Irvine Ranch Water District	241,964	193,398	-20.1%	215,940	11.7%	235,903	9.2%	236,986	0.5%	243,236	2.6%	1,125,431
Moulton Niguel Water District	8,006,227	8,341,242	4.2%	8,396,105	0.7%	8,684,577	3.4%	9,051,742	4.2%	9,365,642	3.5%	43,839,402
Santa Margarita Water District	1,769,400	1,881,531	6.3%	1,888,505	0.4%	1,936,049	2.5%	1,986,164	2.6%	2,060,847	3.8%	9,753,128
South Coast Water District	3,236,962	3,391,854	4.8%	3,449,468	1.7%	3,563,592	3.3%	3,686,908	3.5%	3,822,794	3.7%	17,914,612
Trabuco Canyon Water District	25,640	26,900	4.9%	27,254	1.3%	27,670	1.5%	28,591	3.3%	29,190	2.1%	139,606
Total SOCWA	18,601,828	19,623,760	5.5%	19,934,096	1.6%	20,593,320	3.3%	21,348,176	3.7%	22,100,052	3.5%	103,599,404

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SOCWA 5 Year Cost Base Prioritized by Major Expenditures

	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	Total 5 Years
Payroll Costs Including Fringe Benefits	9,227,000	9,517,575	9,898,351	10,294,363	10,706,039	11,134,283	51,550,610
Chemicals	1,642,500	1,613,112	1,690,400	1,771,400	1,856,400	1,945,500	8,876,812
Utilities	1,714,900	2,067,420	1,617,172	1,638,760	1,718,752	1,802,460	8,844,564
Biosolids Hauling and Disposal	1,632,900	1,524,604	1,594,596	1,668,104	1,745,304	1,826,404	8,359,012
Environmental & Safety	1,538,905	1,507,141	1,535,896	1,587,004	1,590,524	1,623,184	7,843,749
Maintenance - Equip. & Facilities	1,087,000	1,118,296	1,151,992	1,186,592	1,222,104	1,258,800	5,937,784
IT	499,000	570,228	582,840	595,788	609,036	622,584	2,980,476
Management Support Services	362,000	549,024	555,652	564,096	573,184	582,012	2,823,968
Permits	494,900	488,020	485,508	515,872	526,116	534,272	2,549,788
Contract Services - Misc	349,000	291,912	371,028	320,536	392,460	340,464	1,716,400
Engineering Misc	295,000	335,000	328,604	337,336	345,516	353,884	1,700,340
Facilities	212,650	214,816	221,304	227,820	234,508	241,528	1,139,976
Audit & Legal	92,000	185,512	188,048	190,760	194,148	196,996	955,464
Grit Hauling	110,600	113,200	118,796	124,704	131,000	137,496	625,196
Engineering transfer to Capital	(483,243)	(490,331)	(509,947)	(530,343)	(551,563)	(573,627)	(2,655,810)
Other Miscellaneous	19,623,760	18,231	103,856	100,528	54,648	73,812	351,075
Total SOCWA Cost Base	38,398,872	19,623,760	19,934,096	20,593,320	21,348,176	22,100,052	103,599,404
Cost Drivers	16,843,205	17,348,148	17,488,407	18,146,223	18,839,123	19,590,631	91,412,531
% Total Cost Base	43.9%	88.4%	87.7%	88.1%	88.2%	88.6%	88.2%

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Headcount and Payroll Costs

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Headcount						
Department	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	2020-21
Operations						
Current	38	39	40	41	42	40
Retirees (half year)	(5)	(2)			(2)	(1)
New Hires (half year)	5	2				
New Hire (full year)	1	1	1	1		
Total Operations	39	40	41	42	40	39
Engineering						
Current	2	2	3	3	3	3
New Hire	1	1				
Total Engineering	3	3	3	3	3	3
Environmental Compliance & Safety						
Current	10	10	9	9	9	9
Retirees (full year)	(1)					
New Hire (full year)						
Total Operations	10	10	9	9	9	9
IT						
Current	1	1	1	1	1	1
Administration						
Current	7	7	7	7	7	7
Total	60	61	61	62	60	59
FY 2015-16 Budget	60	61	61	61	61	61

Payroll Costs						
Inflation, 3% Average Merit and 1.5% COLA						
Department	FY 2015-16	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	2020-21
Operations	5,919	6,118	6,362	6,617	6,882	7,158
Engineering	681	668	695	723	751	781
Environmental Compliance & Safety	1,363	1,416	1,473	1,532	1,593	1,656
Administration and IT	1,264	1,316	1,368	1,423	1,480	1,539
Total	9,227	9,518	9,898	10,295	10,706	11,134
% Change	0.2%	3.2%	4.0%	4.0%	4.0%	4.0%

SOCWA Cost Base	18,602	19,624	19,934	20,593	21,348	22,100
Payroll Cost Content	49.6%	48.9%	49.7%	50.0%	50.2%	50.4%

Notes
 (A) Environmental Compliance/Safety 1 position in 16/17 filled in current year @ 1/2 time.
 (B) FY 2015/16 Budget numbers reflect a correction.

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Operations Department



13

Operations & Maintenance

- ▶ Primary Budget Changes
 - Inflation adjustments (range 3%(general) to 5%(energy))
 - Increased power and gas costs at JBL and RTP for engine outage (23% JBL and 51% RTP)
 - SCADA system upgrades at JBL – \$150,000
 - O&M Budget now includes costs segregated to the individual Plants that are identifiable (moved out of general admin):
 - Legal – \$78,000
 - Management support services – \$112,000
 - Travel and Technical Conferences – \$22,000
 - Training – \$61,000
 - Memberships – \$8,000

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Project Committee 2

- Savings:
 - Polymer usage decrease projected based on lower solids loadings, saving \$31,000 (no change from last year with increases in polymer costs)
- Increases:
 - Gas costs increased for engine being off for Co-gen replacement project \$20,000
 - Inflation increases for other utilities
 - \$12,000 for new landscaping contract
 - Identified administrative costs added in PC2
- New costs:
 - JBL SCADA server replacement project \$150,000

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Project Committee 15

- Savings:

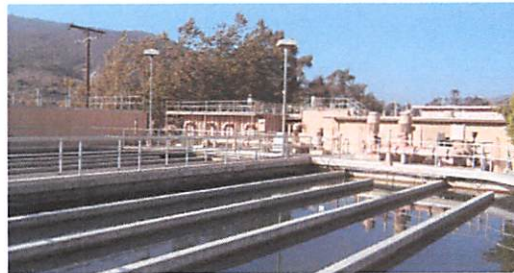
Landscape budget line item lower by \$49,000 due to work completed in 15-16

- Increases:

Inflation and utility noticed increases
Identified administrative costs added in PC2

- New costs:

No new programs



17

Project Committee 17

Savings:

Budget lower due to digester cleanings completed in 15-16 (paid for biannually) \$60,000

Reduced Biosolids (\$25,000) due to lower loadings and ETWD reductions

Increases:

Power and Gas costs increased for engine being off for Co-gen replacement project (carry over from past FY)

Inflation and utility noticed increases
Identified administrative costs added

New costs:

No new programs



18

O&M Costs Carryover from '15-'16

- ▶ PC2
 - Due to delay on the engine replacement project Electrical Costs (cushion for down time) shifted to FY16-17 \$860,000
 - Stanley security upgrades in the amount of \$110,000 (small internal capital project)
- ▶ PC15
 - Biosolids Contingency fund \$125,000
 - SCADA Costs in the amount of \$150,000 (IT Direct)
 - Landscaping improvements for fire protection \$25,000 (March OCFA Wildlands Assessment)
- ▶ PC17
 - Electrical Costs (cushion for down time) \$676,000
 - Landscaping improvements for fire protection \$31,000 (March OCFA Wildlands Assessment)

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O&M Staffing Review

20

O&M Succession Planning Update

- ▶ 5 Retirements in FY15-16
 - 13% of O&M Work Force (39 FTE)
- ▶ Future Retirements (next 5 years)
 - 12 eligible for retirement today
 - 17 eligible over next 3 years
 - 3 estimated retirements next year
 - Attracting candidates with an interested in entry level
 - Positioning SOCWA to provide training
 - Note: today 25% current workforce under 3 years w/ SOCWA



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O&M Succession Planning Update

- ▶ Goal 1 – Meet State requirements for Certified Operators
- ▶ Goal 2 – Retain plant knowledge before retirements
- ▶ Goal 3 – Ensure that staffing levels are appropriate for the size and complexity of the SOCWA system



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16-'17 O&M Staffing Level Plan

Year	PC 2 (JBL)	PC 3A	PC 5 (SJCOO)	PC 15 (CTP)	PC17 (RTP)	PC 24 (ACOO)	Total
FY14-15	12.49	4.88	0.13	7.82	15.61	0.08	41.00
FY15-16	13.34	0.50	0.11	7.95	17.06	0.05	39.00
FY16-17	13.99	0.00	0.11	8.18	17.67	0.05	40.00
FY17-18	14.99	0.00	0.12	8.17	17.69	0.05	41.00
FY18-19	14.99	0.00	0.12	8.23	18.63	0.05	42.00
FY19-20	13.99	0.00	0.11	8.13	17.72	0.05	40.00
FY20-21	13.99	0.00	0.11	7.85	17.00	0.05	39.00
FY21-22	13.99	0.00	0.11	7.85	17.00	0.05	39.00

No changes

23

Quality Maintenance Program

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Highlights of FY 2015–2016 Managed Maintenance Program

- ▶ Pumps and other driven equipment with Preventative Maintenance (PM) programs:
 - 2539 PM tasks
 - 210 Equipment failures (Corrective) – Ratio 10:1
 - 13 Callbacks failures reoccurred – 6%
- ▶ Lifecycle Engineering indicates that an effective program is at least 6:1
- ▶ Callbacks should range between 3% and 10%



Maintenance Accomplishments

- ▶ 140 staff driven projects to repair or upgrade equipment.
- ▶ In addition:
 - 60 pump projects (20% of all pumps)
 - 47 valve projects
 - 24 meter projects (20% of all meters)
 - Annual calibration of all billing meters
 - 4 emergency projects (3 leaks from aging water lines– 1 chemical tank leak)



26

Tabware Improvements

- ▶ System software upgrade
- ▶ Multiple training sessions (all staff trained)
- ▶ Created and Implemented hierarchy for efficiency in system usage
- ▶ Entering new equipment maintenance tasks with links to electronic manuals
- ▶ Capturing historical data such as existing manuals
- ▶ Review and QA/QC of planned maintenance instructions

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Maintenance Staff Training

- ▶ Confined space entry and rescue training – new
- ▶ ICS NIMS/SEMS (FEMA) training – new w/all
- ▶ Hand tool ergonomics – new
- ▶ CTP arc flash training – once every 3 years
- ▶ Bloodborne pathogen training – new
- ▶ SDS online – loading, training and label printing – new
- ▶ 1 new Class A truck driver
- ▶ 3 new certified crane operators

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Environmental Compliance



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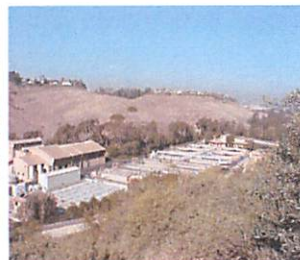
Environmental Compliance Budget

<u>Fiscal Year Budget</u>	<u>15/16</u>	<u>16/17</u>
PC 12 – Recycle Water	\$191,176	\$203,020
PC 5 – SJCOO	\$454,650	\$360,764
PC 24 – ACOO	\$405,624	\$259,092
PC 8 – PT Program	\$ 22,850	\$ 22,436
Total Budget	\$1,538,905	\$1,368,420

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Treatment Plant Costs

Fiscal Year Budget	<u>15/16</u>	<u>16/17</u>
Outside Lab Services	\$33,250	\$35,700
Safety Supplies	\$71,700	\$91,500
Laboratory Supplies	\$73,000	\$75,508
Permits Plants	\$87,900	\$75,020
MNWD Supply & Services	\$22,000	\$23,996



31

NPDES Permit Renewal

Consultant Services – Permit Renewal:

- ▶ SOCWA has most complicated permits in State and both permits are renewed at the same time
- ▶ Cost of this service is half of ten years ago
- ▶ Consultant focuses on permit changes & avoiding unnecessary, costly permit conditions
- ▶ Consultant help during the 2012 renewal led to many permit improvements:
 - no chlorination provisions
 - reduced offshore monitoring (Quarterly to Semi-annual)
 - changed permit Limits to "Performance Goals"
 - reduced shoreline monitoring



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AQMD Compliance & Emissions Testing

Inspection & Maintenance Plans must be submitted and approved by SCAQMD

- ▶ Engine Emission Source Testing (2 per Engine)
- ▶ Continuous Emissions Monitoring System Certification
- ▶ Portable monitoring testing equipment



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Industrial Stormwater Compliance

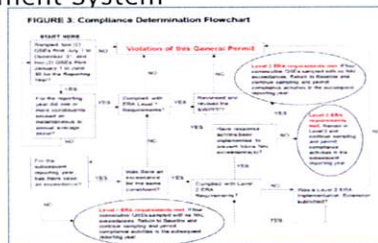
- ▶ The new Statewide General Order went into effect on July 1, 2015
- ▶ SOCWA facilities were required to monitor for nutrients due to receiving water exceedances of surface water quality objectives
- ▶ This year's facility stormwater results are above compliance levels
- ▶ State certified consultant is required
- ▶ Consultant to survey the sites & develop the compliance plan



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Compliance Department Focus Permits, Permits, Permits

- ▶ Recycled Water WDR Permit – filing by September 30, 2016
- ▶ Aliso Creek and San Juan Creek Ocean Outfall permit renewal applications must be submitted by November 30, 2016
- ▶ JBL & RTP Engine Projects Air Quality Permits add many conditions, we will develop a compliance plan to ensure all conditions are met
- ▶ Continued Environmental Management System Implementation
- ▶ Continued Safety Program update



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Environmental Compliance Staffing Update

- ▶ Currently have a good mix of senior and junior staff (total staff=10)
- ▶ Recently filled the pretreatment manager position at a savings
- ▶ Over the last several years we have filled Lab Tech I position with Sampler/Lab Aide at a lower pay rate
- ▶ We will continue to focus on knowledge transfer through expansion of the Environmental Management System

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Update Cost Allocation Working Group

37

Cost Allocation Workshops

- Workshops I to IV held with Allocation Working Group Participants
- Strong participation by staff of the Member Agencies
- Draft Workshop Report Prepared
- Consensus Reached on Some Items
- Cost Impacts Reviewed
- Final Workshop Pending

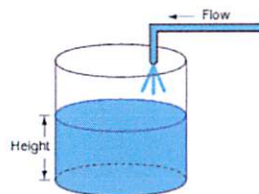
38

Benefits of Regional Cooperation

□ Tangible Benefits of Regional Cooperation

○ Core Services – The Unavoidable

- Wastewater treatment,
- Permitting,
- Pretreatment,
- Laboratory services,
- Compliance,
- Biosolids handling & management,
- Regional participation



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Benefits of Regional Cooperation

□ Cooperative Benefits of Core Services

- Flexibility in treatment options and backup operating systems
- Sharing of Influent (for the AWT users)
- Sharing of Outfalls
- Managing Expertise in Core Areas available to all agencies:
 - Broad Regulatory Experience
 - Pretreatment
 - NPDES Permitting
 - Data Collection & Reporting (CWIQS reports)

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Workshop Consensus

- ▶ Full-time continuous metering of upstream of the JBL Plant:
 - ✓ Permanent metering structure for CSJC and SMWD/MNWD sewers and inflow to the JBL facility;
 - ✓ Prior to permanent metering, SOCWA would outsource temporary full-time, year-round monitoring for CSJC and SMWD/MNWD sewers;
 - ✓ Every 5 years the MNWD collection system should be separately monitored for MNWD's actual contribution to the SMWD/MNWD sewer in coordination with SMWD/MNWD;
 - ✓ SMWD should also report daily flow and load monitoring of sewer discharges from 3A to J.B. Latham Plant with SMWD to provide data on the correct split between MNWD and SMWD (Project Committee 2).

41

Workshop Consensus

- ✓ The Permit fees for the Pretreatment Program are levied as a fixed charge. The invoice for these fees should be allocated directly to the Pretreatment Program as a part of the PC 8 Budget (moved out of PC 24) and shared on a fixed cost basis (Project Committee 8).
- ✓ Outfall engineering costs should be allocated based on ownership capacity as these costs are incurred to further the useful life of the asset.
- ✓ Outfall "tie in" discharges should be considered for cost impact in the cost of use study: These add on discharges have associated permitting, reporting and monitoring costs (Project Committees 5 and 24).

42

Workshop Consensus

- ✓ Prepare a scope of work for a cost of service study for the treatment plants and processes and get proposals to fund that study during FY 2016-17 (All Project Committees). If the study is cost effective it will be conducted during FY 2016-17.
- ✓ Allocate Director Meeting Fees to the Individual Agencies (if paid by SOCWA). Agency staff do not receive separate fees for meeting attendance.

43

Workshop Consensus

- ✓ Consider institutional changes to address stranded capacity after completion of engineering studies at Latham and Coastal Treatment Plants (Project Committees 2 and 15).

44

Open Items – Further Discussion

- ✓ Move the J. B. Latham Treatment Plant Effluent Pump Station (EPS) costs to PC 2 and aligning the pump station ownership capacities to PC 2 Liquids ownership capacity. This would match the owner capacity of the pump station as rebuilt (1980's and later in 1993) and update the capital contribution percentages and align with PC 2 liquids ownership.

45

Open Items – Further Discussion

- ✓ Consider the Cost Impact of the Following:
 - Update the water use allocations at the treatment facilities (Project Committees 2, 15, and 17).
 - Update Regional and Coastal Treatment Plant bleach use allocations for budget based on system changes (Project Committee 15 and 17).
 - Update odor control allocations based on sources of foul air volumes for the Latham and Regional Treatment Plants (Project Committees 2 and 17).
 - Implement to fairly allocate the costs.

46

Open Items – Further Discussion

- ✓ Allocation of SOCWA Administrative Costs
 - Current Method Based on Federal Cost Accounting Standards (% of O&M to the total O&M).
 - Six other alternative approaches reviewed in Working Group.
 - Two more approaches discussed in Workshop IV.
 - Implement change to fairly allocate the costs.
- ✓ Approve Report to the Board of Directors

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Agenda Item

Legal Counsel Review: N/A

Meeting Date: March 2, 2017

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Approval of Financial Matters – January 31, 2017

Summary/Discussion

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

- a) Summary of Disbursements
 - For Month of January 2017 (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 the month of January 2017, disbursements totaled \$1,488,797 and are summarized in the attached Exhibit A. The attached Exhibits B, C, D and E are informational reports only.

Recommendation

Staff recommends the Board of Directors:

- 1) Ratify the Summary of Disbursements for the period from January 1, 2017 through January 31, 2017 (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)

Exhibit A

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

	Actual
General Fund	(\$380,213)
PC 2 - Jay B. Latham Plant	(414,667)
PC 3 - SOCWA Plant/PCA AWT	0
PC 5 - San Juan Creek Ocean Outfall	(9,337)
PC 8 - Pretreatment Program	(6,016)
PC 12 SO - Water Reclamation Permits	(1,691)
PC 15 - Coastal Treatment Plant/AWT	(103,176)
PC 17 - Joint Regional Wastewater Reclamation	(564,922)
PC 21 - Effluent Transmission Main	(258)
PC 24 - Aliso Creek Ocean Outfall	(8,515)
Total	(\$1,488,797)

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

as of January 31, 2017

CASH IN BANK: (BEGINNING BAL.)	\$	1,366,653
L.A.I.F. FUNDS: (BEGINNING BAL.)		9,307,150
PAYMENTS IN TRANSIT(Has not Cleared Bank)		893,147
RECEIPTS:		2,803,214
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION		(1,488,797)
		\$ 12,881,368

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

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

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

Betty Burnett
General Manager

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

South Orange County Wastewater Authority
Schedule of Cash and Investments
as of January 31, 2017

MVA	\$ 4,893,737	(A)
A/P Checking	384,677	(B)
Payroll Checking	78,133	(C)
State LAIF	7,524,821	(D)
Total Cash in Bank	12,881,368	
Petty Cash	1,600	(E)
Total Operating Cash	12,882,968	
OPEB Trust	3,730,913	(F)
Total Cash and Investments	\$ 16,613,881	

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
January 31, 2017**

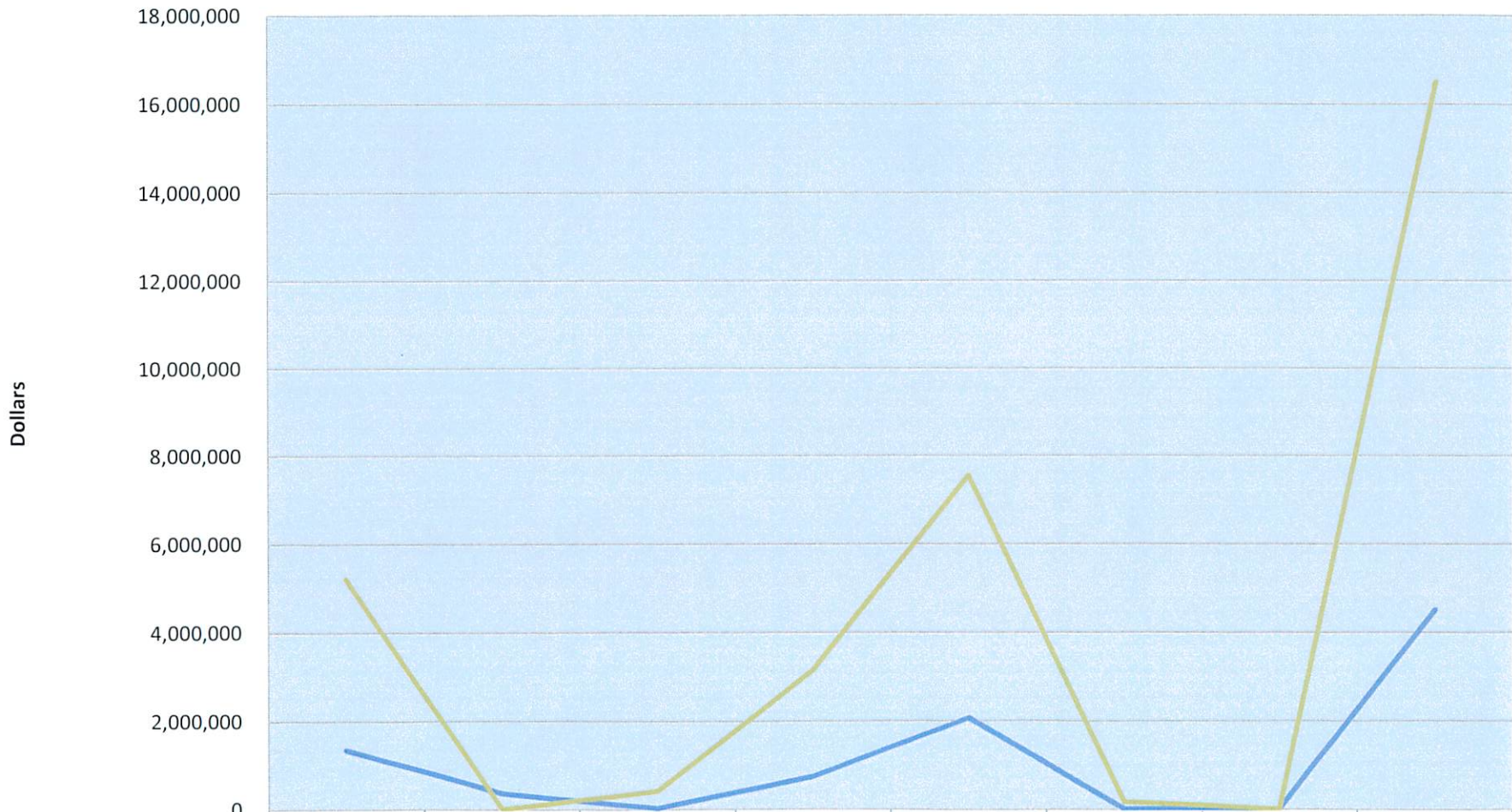
FY 2016-17 Budget vs. Actual Spending						
Description	Capital Budget	Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collected
PC 2-JB Latham	5,211,980	1,345,240	3,866,740	25.8%	4,194,380	4,194,380
PC 3A	0	355,487	(355,487)	0.0%	0	0 (1)
PC 5-San Juan Creek Outfall	414,437	19,380	395,057	4.7%	138,974	138,974
PC 15-Coastal	3,149,813	732,768	2,417,045	23.3%	1,965,393	1,444,145 (2)
PC 17-Regional	7,551,483	2,059,918	5,491,565	27.3%	5,605,862	5,605,862
PC 21 Effluent Transmission	159,719	279	159,440	0.2%	55,347	55,347
PC 24 Aliso Creek Outfall	0	472	(472)		0	0
Total Large Capital	16,487,432	4,513,544	11,973,888	27.4%	11,959,956	11,438,708
Non-Capital Engineering	891,500	100,590	790,910	11.3%	717,451	717,451
Small Internal Capital	1,254,100	579,492	674,608	46.2%	940,575	940,575
Total Capital	18,633,032	5,193,626	13,439,406	27.9%	13,617,982	13,096,734

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

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

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

Large Capital Projects Exhibit D-1 Budget vs. Actual Year-to-Date 01/31/2017



Spent - YTD	1,345,240	355,487	19,380	732,768	2,059,918	279	472	4,513,544
Capital Budget 16-17	5,211,980	0	414,437	3,149,813	7,551,483	159,719	0	16,487,432

South Orange County Wastewater Authority
O & M & Environmental, Safety Costs Summary
Year-to-Date as of January 31, 2017

	FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe					
5000--***	Regular Salaries-O&M	4,249,384	2,222,753	2,026,631	52.3%
5001--***	Overtime Salaries-O&M	79,080	67,160	11,920	84.9%
5306--***	Scheduled Holiday Work	50,700	18,795	31,905	37.1%
5401--***	Fringe Benefits IN to PC's & Depts.	3,017,080	1,578,154	1,438,926	52.3%
5700--***	Standby Pay	137,588	38,350	99,238	27.9%
	Total Payroll Costs	7,533,832	3,925,212	3,608,620	52.1%

(1)

Other Expenses

5002--***	Electricity	1,809,012	692,289	1,116,723	38.3%
5003--***	Natural Gas	167,304	78,689	88,615	47.0%
5004--***	Potable & Reclaimed Water	59,208	26,927	32,281	45.5%
5005--***	Co-generation Power Credit	(450,004)	(201,611)	(248,393)	44.8%
5006--***	Chlorine/Sodium Hypochlorite	542,404	228,987	313,417	42.2%
5007--***	Polymer Products	646,504	280,142	366,362	43.3%
5008--***	Ferric Chloride	251,800	132,181	119,619	52.5%
5009--***	Odor Control Chemicals	167,404	66,451	100,953	39.7%
5010--***	Other Chemicals - Misc.	5,000	0	5,000	0.0%
5011--***	Laboratory Services	35,700	23,421	12,279	65.6%
5012--***	Grit Hauling - 21A	113,200	42,828	70,372	37.8%
5013--***	Landscaping	160,000	127,985	32,015	80.0%
5014--***	Engineering - Misc.	335,000	113,497	221,503	33.9%
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	124,951	145,457	46.2%
5021--***	Small Vehicle Expense - 31A	19,444	11,700	7,744	60.2%
5022--***	Miscellaneous Expense	16,804	4,169	12,635	24.8%
5023--***	Office Supplies - All	33,604	18,504	15,100	55.1%
5024--***	Petroleum Products	58,400	13,484	44,916	23.1%
5025--***	Uniforms	34,408	19,950	14,458	58.0%
5026--***	Small Vehicle Fuel - 37A	33,704	8,740	24,964	25.9%
5027--***	Insurance - Property/Liability	110,188	130,292	(20,104)	118.2%
5028--***	Small Tools & Supplies	63,128	34,160	28,968	54.1%
5030--***	Trash Disposal	4,808	1,683	3,125	35.0%
5031--***	Safety Supplies	91,500	60,830	30,670	66.5%
5032--***	Equipment Rental	7,204	40	7,164	0.6%
5033--***	Recruitment	0	600	(600)	0.0%
5034--***	Travel Expense/Tech. Conferences	40,016	8,289	31,727	20.7%
5035--***	Training Expense	62,496	23,008	39,488	36.8%
5036--***	Laboratory Supplies	75,508	30,258	45,250	40.1%
5037--***	Office Equipment	21,404	7,342	14,062	34.3%
5038--***	Permits	488,020	447,049	40,971	91.6%
5039--***	Membership Dues/Fees	12,012	5,395	6,617	44.9%
5040--***	Natural Gas - 11-EPS - PC 5	396	0	396	0.0%
5041--***	Electricity - 10-EPS - PC 5	31,500	12,214	19,286	38.8%
5042--***	Contract Services - 29-EPS - PC 5	4,104	0	4,104	0.0%
5044--***	Offshore Monitoring - 20A	40,008	14,749	25,259	36.9%
5045--***	Offshore Biochemistry - 20B	0	11	(11)	0.0%
5046--***	Effluent Chemistry - 20C	52,004	13,846	38,158	26.6%
5047--***	Access Road Expenses	45,400	9,287	36,113	20.5%

(2)

(3)

South Orange County Wastewater Authority
O & M & Environmental, Safety Costs Summary
Year-to-Date as of January 31, 2017

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	658,362	866,242	43.2%	
5050--**-**	Contract Services Generators - 29A	19,704	17,942	1,762	91.1%	(4)
5052--**-**	Janitorial Services	50,008	12,459	37,549	24.9%	
5053--**-**	Contract Serv - Digester Cleaning - 29E	0	0	0	0.0%	
5054--**-**	Diesel Truck Maint - 31B	29,512	18,285	11,227	62.0%	(5)
5055--**-**	Diesel Truck Fuel - 37B	12,200	3,632	8,568	29.8%	
5056--**-**	Maintenance Equip. & Facilities (Solids) 41-A	311,500	134,700	176,800	43.2%	
5057--**-**	Maintenance Equip. & Facilities (Liquids) 41-B	530,400	297,705	232,695	56.1%	
5058--**-**	Maintenance Equip. & Facilities (Common) 41-C	60,300	50,513	9,787	83.8%	(6)
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	42,743	14,857	74.2%	(7)
5061--**-**	Mileage	4,952	2,633	2,319	53.2%	
5067--**-**	Port Cleaning	0	0	0	0.0%	
5068--**-**	MNWD Potable Water Supplies & Svcs.	23,996	11,336	12,660	47.2%	
5069--**-**	Misc-Capital-Dilution & Metering Study	65,004	0	65,004	0.0%	
5077--**-**	IT Direct	150,004	77,403	72,601	51.6%	(8)
17-5101-01-00-00	Employee Recognition	0	625	(625)	0.0%	
5105--**-**	Co-Generation Power Credit - Offset	450,004	201,611	248,393	44.8%	
02-5301-01-00-00	Vehicle Pay	\$0.00	\$161.54	(\$161.54)	0.0%	
17-5302-01-03-00	Longevity Bonus	0	2,600	(2,600)	0.0%	
5303--**-**	Group Insurance Waiver	0	3,447	(3,447)	0.0%	
5305--**-**	Medicare Tax Payments for Employees	0	8,108	(8,108)	0.0%	
5309--**-**	Operating Leases	7,004	2,960	4,044	42.3%	
5705--**-**	Monthly Car Allowance	37,320	19,158	18,162	51.3%	
5802--**-**	Shipping/Freight	0	409	(409)	0.0%	
6500--**-**	IT Allocations in to PC's & Depts.	577,252	242,734	334,518	42.0%	
	Total Other Expenses	9,930,492	4,476,668	5,453,824	45.1%	
	Total Expenses	17,464,324	8,401,880	9,062,444	48.1%	

- (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) Employee boots and online training for the year is completed and expenses will be lower for the remainder of the year
- (4) Most work is done at the beginning of the fiscal year. Expenses will be minimal for the rest of the year.
- (5) Completed annual services and repairs.
- (6) Several air conditioner units failed and were replaced.
- (7) Equipment ordered for winter maintenance projects.
- (8) 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 January 31, 2017**

Exhibit E-2

		FY 2016-17 Original Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
-5000-*-00	Regular Salaries-O&M	103,896	58,246	45,650	56.1%
-5401-*-00	Fringe Benefits IN to PC's & Depts.	73,764	41,296	32,468	56.0%
	Total Payroll Costs	177,660	99,541	78,119	56.0%
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	11,400	0	11,400	0.0%
01-5039-03-00-00	Membership Dues/Fees	1,200	629	571	52.4%
01-5061-03-00-00	Mileage	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	9,625	5,375	64.2%
01-5705-03-00-00	Monthly Car Allowance	5,820	2,423	3,397	41.6%
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	10,286	33,742	23.4%
	Total Other Expenses	119,340	30,327	89,013	25.5%
	Total Expenses	297,000	129,868	167,132	43.8%

**South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration
For the Period Ended January 31, 2017**

Exhibit E-3

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5306-04-00-00	Scheduled Holiday Work	0	495	(495)	0.0%
01-5401-04-00-00	Fringe Benefits IN to PC's & Depts.	484,884	270,526	214,538	55.8%
01-6000-04-00-00	Regular Salaries-Admin & IT	682,932	381,022	301,910	55.8%
01-6001-04-00-00	Overtime Salaries-Admin & IT	19,308	10,907	8,401	56.5%
	Total Payroll Costs	1,187,124	662,950	524,174	48.6%
Other Expenses					
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	73,705	141,299	34.3%
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	11,922	84,186	12.4%
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	4,512	10,488	30.1%
01-6311-04-00-00	Mileage	708	345	363	48.7%
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	37,509	84,663	30.7%
01-6601-04-00-00	Shipping/Freight	0	1,043	(1,043)	0.0%
01-6705-04-00-00	Monthly Car Allowance	12,000	6,923	5,077	57.7%
	Total Other Expenses	675,312	183,454	491,858	27.2%
	Total Expenses	1,862,436	846,405	1,016,031	45.4%

**South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
For the Period Ended January 31, 2017**

Exhibit E-4

		FY 2016-17 Budget	Actual	(Over)/Under Budget	% Expended	
Salary & Fringe						
01-5401-05-00-00	Fringe Benefits IN to PC's & Depts.	52,572	11,608	40,964	22.1%	
01-6000-05-00-00	Regular Salaries-Admin & IT	74,052	16,349	57,703	22.1%	(1)
01-6001-05-00-00	Overtime Salaries-Admin & IT	2,004	118	1,886	5.9%	
	Total Salary & Fringe	128,628	28,074	100,554	21.8%	
Other Expenses						
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	\$31,112	\$26,032	54.4%	
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	\$67,535	\$41,485	61.9%	
01-6305-05-00-00	IT Professional Services	241,500	\$94,904	\$146,596	39.3%	
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	\$262,454	\$307,774	46.0%	
	Total Expenses before Allocation	698,856	\$290,529	\$408,327	41.6%	
IT Allocations (Out) to PC's & Depts						
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(698,856)	(\$290,529)	(\$408,327)	41.6%	
		(698,856)	(\$290,529)	(\$408,327)	41.6%	
		(698,856)	(\$290,529)	(\$408,327)	41.6%	

(1) Employee resigned, contractor is temporary replacement.

Agenda Item

Meeting Date: March 2, 2017

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

Summary/Discussion

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

1) Monthly Operational Report

A six (6) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing calculation used by SOCWA for billing the agencies. Other items include important statistics for regulatory compliance, visitations by the public to the treatment works, and other vendor interactions. The information is broken down by facility and by member agency.

2) SOCWA Ocean Outfall Discharges by Agency

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

3) Beach Ocean Monitoring Report

4) Recycled Water Report

5) Pretreatment Report

Fiscal impact

No change

Recommendation

Receive and file the operational reports.

Monthly Operational Report

SOCWA Operational Report January, 2017

Excursion, Complaint, and Violation Events

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

(a) A JBL violation occurred from not meeting the 85% TSS removal requirement from the January 22nd extreme winter storm event followed by a 2-hour power outage under high flow conditions.

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd)	2.82	8.90	7.16	1.14	20.02
Effluent (mgd)	3.18	7.29	7.16	1.98	19.61
Peak Flow (mgd)	5.11	31.27	20.00	9.44	65.82
Influent BOD (mg/l)	397	286	266	320	
Influent TSS (mg/l)	392	337	567	346	
Effluent BOD (mg/l)	8.2	5.2	8.9	9.2	
Effluent TSS (mg/l)	10.1	10.7	14.3	14.6	
Effluent Turbidity (NTU)	3.4	5.8	7.4	11.7	

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.03	1.61		1.65
Days of Operation (days)	1	25		
Total Flow (million gallons)	1.1	50.0		51.1
Plant Irrigation (million gallons)	0.10	0.00	0.24	
AWT Time Online (%)	100.0	95.0		

Wastewater Unit Definitions

mgd = million gallons per day

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

NTU = Nephelometric Turbidity Units

SOCWA Operational Report January, 2017 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		763.1	0.0	763.1
Nursery Products (tons)		501.8	628.9	1,130.7
Prima Deshecha (tons)		66.6	85.2	151.8
Other: _____ (tons)		0.0	0.0	0.0
Total Processed (tons)		1,331.5	714.1	2,045.6

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	294	579	455	1,328
Corrective Maintenance	64	215	149	428

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	2	2
Member Agency	0	0	0	0
Residents	0	0	0	0
Others	13	25	45	70
Tours #/Visitors	0	1	1	2

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	14.6	NA	NA	14.6

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.1	NA	NA	0.1
Power (kWh)	212,788	615,958	525,423	1,354,169
Natural Gas (Dth)	492	NA	9,071	9,563
Digester Gas (scfm)		0(1)	0(1)	0
Digester Gas Power Savings		(1)		

(1) Engine removed from service as planned for replacement.

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 January, 2017 (cont'd)

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

Agency	CTP (mgd)	CTP (%)	RTP (mgd)	JBL (mgd)	JBL (%)	Total (mgd)
CLB	1.700	60.04%				1.70
EBSB	0.057	2.02%				0.06
SCWD	1.075	37.94%		1.695	23.67%	2.77
MNWD	0.000	0.00%	8.90	1.400	19.55%	10.30
CSJC				2.086	29.13%	2.09
SMWD				1.981	27.66%	1.98
Total	2.832	100.00%	8.90	7.162	100.00%	18.89

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.70	8.66%	1.70	
EBSB				0.06	0.29%	0.06	
SCWD	1.70	11.71%		1.42	7.22%	3.11	Includes Desalters
MNWD	1.40	9.67%		7.29	37.10%	8.69	
ETWD				4.04	20.59%	4.04	Direct Outfall Only
CSJC	2.09	14.41%				2.09	Includes Desalter
SMWD	6.02	41.58%				6.02	Includes Chiquita
CSC	3.27	22.62%				3.27	Direct Outfall Only
IRWD				5.14	26.15%	5.14	Direct Outfall Only
Total	14.47	100.00%	15.63	19.64	100.00%	34.12	

SOCWA Operational Report January, 2017 (cont'd)

FY Flow/Solids Summary-Billing

Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSJC	4.00	30.77%	3.19	38.02%	2.086	29.13%	2.03	29.18%
MNWD	3.00	23.08%	1.40	16.69%	1.400	19.55%	1.43	20.57%
SCWD	3.75	28.85%	2.00	23.84%	1.695	23.67%	1.68	24.26%
SMWD	2.25	17.31%	1.80	21.45%	1.981	27.66%	1.80	25.98%
Total	13.00	100.00%	8.39	100.00%	7.162	100.00%	6.94	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%	5,715	22.98%	5,093	21.57%
MNWD	8,340	21.62%	5,270	20.36%	5,908	23.76%	5,913	25.04%
SCWD	7,715	20.00%	5,304	20.49%	4,884	19.64%	5,139	21.76%
SMWD	10,946	28.38%	6,695	25.86%	8,360	33.62%	7,471	31.63%
Total	38,573	100.00%	25,889	100.00%	24,867	100.00%	23,616	100.00%

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

Agency	Own (%)	Variable Budget (mgd)	Variable Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	Month EPS Outfall Flow (mgd)	Month EPS Outfall Flow (%)
CSC	16.62%	3.00	17.13%	3.27	22.62%		
CSJC	11.08%	3.83	21.87%	2.09	14.41%	2.09	29.13%
MNWD	15.51%	2.42	13.82%	1.40	9.67%	1.40	19.55%
SCWD	12.47%	2.67	15.25%	1.70	11.71%	1.70	23.67%
SMWD	44.32%	5.59	31.92%	6.02	41.58%	1.98	27.66%
Total	100.00%	17.51	100.00%	14.47	100.00%	7.16	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 January, 2017 (cont'd)

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

Project Committee No. 5 - Outfall (SJCOO)

Agency	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)	FY Avg EPS Outfall Flow (mgd)	FY Avg EPS Outfall Flow (%)
CSC	2.256	20.35%		
CSJC	2.118	19.10%	2.03	29.18%
MNWD	1.536	13.86%	1.43	20.57%
SCWD	1.686	15.21%	1.68	24.26%
SMWD	3.490	31.48%	1.80	25.98%
Total	11.086	100.00%	6.94	100.00%

Project Committee No. 15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	2.54	37.91%	1.960	60.61%	1.700	60.04%	1.711	58.24%
EBSD	0.20	2.99%	0.061	1.89%	0.057	2.02%	0.051	1.73%
SCWD	2.00	29.85%	1.213	37.51%	1.075	37.94%	1.177	40.04%
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%	2.832	100.00%	2.939	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	0.0120	0.0120	0.13%	0.0119	0.15%
EBSD	0.00044	0.005%	0.0000	0.0004	0.0004	0.00%	0.0004	0.00%
SCWD	0.00871	0.103%	0.0000	0.0076	0.0076	0.08%	0.0082	0.10%
ETWD	0.01719	0.204%	0.0000	0.0163	0.0163	0.18%	0.0141	0.18%
MNWD	8.40541	99.521%	8.9003	0.0588	8.9591	99.60%	7.8825	99.56%
Total	8.44583	100.000%	8.9003	0.0951	8.9954	100.00%	7.9170	100.00%

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

SOCWA Operational Report January, 2017 (cont'd)

FY Flow/Solids Summary (cont'd)

Project Committee No. 17 Solids (RTP)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Total Month (lbs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	4,728	12.95%	167,054	12.63%	147,034	12.37%
EBSD	295	0.59%	147	0.40%	5,631	0.43%	4,396	0.37%
SCWD	4,480	8.96%	2,926	8.02%	105,560	7.98%	100,823	8.48%
ETWD	10,200	20.41%	5,903	16.17%	226,499	17.13%	176,284	14.83%
MNWD	29,395	58.82%	22,801	62.46%	817,476	61.83%	760,480	63.96%
Total	49,975	100.00%	36,505	100.00%	1,322,220	100.00%	1,189,016	100.00%

Project Committee No. 24 (ACOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.000%	1.49	13.32%	1.700	8.66%	1.711	17.01%
EBSD	0.780%	0.06	0.54%	0.057	0.29%	0.051	0.50%
ETWD	16.302%	2.89	25.83%	4.044	20.59%	2.486	24.72%
IRWD	15.760%	2.62	23.41%	5.136	26.15%	2.164	21.51%
MNWD	43.848%	2.96	26.45%	7.287	37.10%	2.914	28.96%
SCWD	12.310%	1.17	10.46%	1.419	7.22%	0.734	7.30%
Total	100.000%	11.19	100.00%	19.644	0.00%	10.061	100.00%

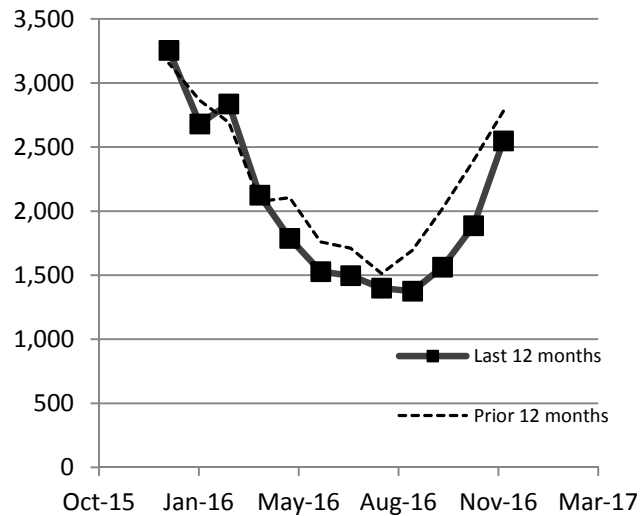
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report January, 2017

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.70	8.66%	1.70
EBSD			0.06	0.29%	0.06
SCWD	1.70	11.71%	1.42	7.22%	3.11
MNWD	1.40	9.67%	7.29	37.10%	8.69
ETWD			4.04	20.59%	4.04
CSJC	2.09	14.41%			2.09
SMWD	6.02	41.58%			6.02
CSC	3.27	22.62%			3.27
IRWD			5.14	26.15%	5.14
Total	14.47	100.00%	19.64	100.00%	34.12
or Acre-Feet per year equivalent					38,211

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

Jan-17	3,184
Dec-16	2,549
Nov-16	1,886
Oct-16	1,564
Sep-16	1,376
Aug-16	1,399
Jul-16	1,496
Jun-16	1,528
May-16	1,788
Apr-16	2,125
Mar-16	2,837
Feb-16	2,681
Total	24,413



Beach/Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

January 2017

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	MGD	inches
	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	
01/01/17	3.035	13.0	<0.1	<0.1	3.910	19.0	4.9	<0.1	7.230	7.7	7.0	0.1	3.240	13.1	12.0		0.418	0.370	0.003	18.206	
01/02/17	3.173	13.0	8.3	<0.1	4.024	14.0	5.8	<0.1	5.710	8.7	5.0	0.3	3.104	8.0	9.0	0.1	0.420	0.371	0.001	16.803	0.01
01/03/17	3.050	15.0	8.6	<0.1	2.796	12.8	6.5	<0.1	6.990	10.3	6.0	0.1	3.038	10.2	7.0	<0.1	0.421	0.370	0.007	16.672	
01/04/17	3.276	4.2	2.7	<0.1	3.389	11.0	6.6	<0.1	5.390	8.5	4.0	0.2	3.305	6.7	6.0	<0.1	0.422	0.387	0.001	16.170	
01/05/17	3.431	11.0	5.6	<0.1	2.751	9.4	5.1	<0.1	5.590	6.9	4.0	0.1	2.983	8.3	11.0	0.1	0.422	0.388	0.006	15.571	0.39
01/06/17	3.452	9.0	4.6	<0.1	3.506	17.4	5.6	<0.1	4.770	7.2	3.0	0.1	3.130	7.6	10.0	<0.1	0.423	0.451	0.002	15.734	0.01
01/07/17	3.309	11.0		<0.1	3.896	21.0	1.7	<0.1	4.530				3.038				0.421	0.505	0.002	15.701	
01/08/17	3.129	8.0	6.2	<0.1	3.775	20.6	3.1	<0.1	4.660	6.4	6.0	<0.1	3.017	10.1	10.0		0.422	0.504	0.003	15.510	
01/09/17	3.131	10.0	5.6	<0.1	4.086	9.8	1.7	<0.1	6.310	9.4	6.0	0.3	3.024	6.7	7.0	<0.1	0.422	0.504	0.003	17.480	0.33
01/10/17	3.408	10.0	4.2	<0.1	2.842	9.6	2.9	<0.1	8.190	10.0	5.0	0.2	2.950	4.4	6.0	0.1	0.421	0.465	0.005	18.281	
01/11/17	3.352	11.0	3.5	<0.1	3.565	11.8	7.7	<0.1	6.580	9.2	5.0	0.2	2.906	5.6	6.0	<0.1	0.414	0.465	No Flow	17.282	0.14
01/12/17	4.441	16.0	6.4	0.1	4.125	10.0	4.3	<0.1	8.400	9.8	4.0	0.1	2.950	10.0	9.0	0.1	0.001	0.324	0.004	20.245	1.13
01/13/17	5.011	21.0	6.5	<0.1	4.151	8.6	5.3	<0.1	9.350	10.8	6.0	0.3	3.161	10.3	10.0	0.2	0.369	0.467	0.119	22.628	
01/14/17	2.930	15.0		<0.1	4.027	12.8	5.6	<0.1	8.590				2.621				0.429	0.466	No Flow	19.063	0.01
01/15/17	3.034	19.0	6.2	<0.1	3.659	16.6	2.4	<0.1	7.040	7.4	7.0	<0.1	2.846	10.1	11.0		0.430	0.465	0.004	17.478	
01/16/17	3.034	19.0	6.9	0.2	2.946	4.8	2.8	<0.1	5.480	9.8	7.0	0.1	3.094	7.7	8.0	<0.1	0.429	0.465	0.003	15.451	
01/17/17	3.476	18.0	6.2	0.1	3.876	6.0	5.7	<0.1	8.260	9.7	4.0	0.1	3.105	9.9	7.0	<0.1	0.422	0.464	0.005	19.608	
01/18/17	3.886	20.0	8.2	0.2	3.421	7.4	2.9	<0.1	7.970	6.3	3.0	0.1	3.010	12.3	10.0	0.1	0.436	0.463	0.002	19.188	0.01
01/19/17	3.883	24.0	5.4	0.2	4.043	9.2	3.9	<0.1	9.560	5.9	3.0	0.3	2.990	6.8		0.2	0.429	0.428	0.002	21.335	0.91
01/20/17	4.531	21.0	7.4	0.1	4.445	10.8	6.7	<0.1	7.170	5.2	3.0	0.2	3.353	11.6	8.0	<0.1	0.429	0.426	0.002	20.356	1.20
01/21/17	5.861	12.0		<0.1	3.894	14.6	5.6	<0.1	8.830				3.586				0.430	0.356	0.005	22.962	0.11
01/22/17	6.165	12.0	6.2	0.1	4.949	8.8	4.0	<0.1	6.620	6.0	4.0	<0.1	3.219	16.6	11.0		0.429	0.373	0.003	21.758	2.54
01/23/17	5.836	18.0	9.0	<0.1	5.346	17.2	3.4	<0.1	13.680	89.6	24.0	<0.1	4.236	26.2	7.0	<0.1	0.429	0.225	0.011	29.763	0.34
01/24/17	5.672	12.0	7.7	<0.1	5.350	18.8	5.1	<0.1	11.890	5.9	3.0	<0.1	3.980	7.6	5.0	0.1	0.429	0.132	0.008	27.461	
01/25/17	5.897	18.0	6.0	<0.1	5.215	17.4	4.1	<0.1	7.750	8.2	5.0	0.2	3.781	7.9	7.0	0.1	0.389	0.135	0.005	23.172	
01/26/17	6.077	22.0	7.8	<0.1	2.807	11.2	5.2	<0.1	7.220	7.2	4.0	0.2	3.204	5.9	4.0	0.1	0.396	0.135	0.003	19.842	
01/27/17	6.006	23.0	9.3	<0.1	5.855	15.2	8.1	<0.1	6.760	5.8	2.0	0.2	3.120	6.9	7.0	0.1	0.110	0.041	0.003	21.895	
01/28/17	5.906	22.0		<0.1	5.796	14.6	9.3	<0.1	5.760				3.120				0.350	0.297	0.002	21.231	
01/29/17	5.906	22.0	7.5	0.1	5.997	18.6	5.1	<0.1	6.510	5.3	4.0	0.1	3.155	14.1	9.0	<0.1	0.427	0.304	0.002	22.301	
01/30/17	6.054	20.0	9.1	<0.1	4.405	14.2	3.0	<0.1	6.670	6.8	4.0	<0.1	3.143	19.0		<0.1	0.428	0.295	0.005	21.000	
01/31/17	6.262	21.0	7.2	<0.1	2.510	26.2	10.9	<0.1	6.440	5.3	3.0	<0.1	3.073	10.5	8.0	<0.1	0.428	0.311	0.003	19.027	
AVG	4.375	15.8	6.6	<0.1	4.044	13.5	5.0	<0.1	7.287	10.7	5.2	<0.2	3.177	10.1	8.2	<0.1	0.395	0.366	0.007	19.651	
TOTAL	135.61				125.36				225.90				98.48				12.25	11.35	0.224	609.17	7.13

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: January 2017
 REPORT DUE: March 1 2017
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High tide 1037
 Weather: Drizzle
 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	01/02/17	1101	<20	<20	<3	None	None	None	None	Green	57	Clear		
S4	01/02/17	1045	<20	<20	<3	None	None	None	None	Green		Clear		
S5	01/02/17	1029	20	<20	<3	None	None	None	None	Green		Clear		
S6	01/02/17	1014	20	<20	<3	None	None	None	None	Green		Clear		
WEST	01/02/17	1010	<20	<20	<3	None	None	None	None	Green		Clear		
S7	01/02/17	1000	<20	<20	<3	None	None	None	None	Green	58	Clear		
S8	01/02/17	945	100	40	100	None	None	None	None	Green		Slightly Turbid		
S9	01/02/17	942	700	50	90	None	None	None	None	Green		Slightly Turbid		
ACM1	01/02/17	935	800	100	100	None	None	None	None	Green		Slightly Turbid		
S10	01/02/17	915	<20	<20	<3	None	None	None	None	Green		Slightly Turbid		
S11	01/02/17	900	30	20	3	None	None	None	None	Green		Slightly Turbid		
S12	01/02/17	850	20	<20	<3	None	None	None	None	Green	59	Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: January 2017
 REPORT DUE: March 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 1442

Weather: Overcast

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	01/11/17	1130	50	20	20	None	None	None	None	Green	62	Turbid		
S4	01/11/17	1120	10	<20	20	None	None	None	None	Green		Turbid		
S5	01/11/17	1110	10	10	10	None	None	None	None	Green		Turbid		
S6	01/11/17	1055	10	30	10	None	None	None	None	Green		Turbid		
WEST	01/11/17	1050	20	20	5	None	None	None	None	Green		Turbid		
S7	01/11/17	1045	40	20	20	None	None	None	None	Green		Turbid		
S8	01/11/17	1100	50	<20	10	None	None	None	None	Green	60	Turbid		
S9	01/11/17	1140	30	30	20	None	None	None	None	Green		Slightly Turbid		100
ACM1	01/11/17	1120	<20	10	10	None	None	None	None	Green		Slightly Turbid		100
S10	01/11/17	1110	60	20	10	None	None	None	None	Green		Slightly Turbid		
S11	01/11/17	1055	40	<20	30	None	None	None	None	Green		Slightly Turbid		
S12	01/11/17	1045	50	20	8	None	None	None	None	Green	60	Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: January 2017
 REPORT DUE: March 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 1108

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	01/16/17	746	40	30	<3	None	None	None	None	Green	59	Slightly Turbid		
S4	01/16/17	803	<40	<40	5	None	None	None	None	Green		Slightly Turbid		
S5	01/16/17	815	30	<40	<3	None	None	None	None	Green		Slightly Turbid		
S6	01/16/17	832	20	20	<3	None	None	None	None	Green	59	Slightly Turbid		
WEST	01/16/17	835	<40	20	<3	None	None	None	None	Green		Slightly Turbid		
S7	01/16/17	836	<40	<40	5	None	None	None	None	Green		Slightly Turbid		
S8	01/16/17	953	<40	30	3	None	None	None	None	Green		Slightly Turbid		
S9	01/16/17	946	30	20	<3	None	None	None	None	Green	60	Slightly Turbid		
ACM1	01/16/17	940	40	20	5	None	None	None	None	Green		Slightly Turbid		
S10	01/16/17	912	<40	<40	<3	None	None	None	None	Green	60	Slightly Turbid		
S11	01/16/17	906	20	<40	3	None	None	None	None	Green		Slightly Turbid		
S12	01/16/17	926	30	<40	<3	None	None	None	None	Green		Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: January 2017
 REPORT DUE: March 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 0730

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	01/26/17	735	30	40	8	None	None	None	None	Green	60	Slightly Turbid		
S4	01/26/17	1030	<20	<20	3	None	None	None	None	Green		Slightly Turbid		
S5	01/26/17	1015	30	<20	<3	None	None	None	None	Green		Slightly Turbid		
S6	01/26/17	910	20	<20	10	None	None	None	None	Green		Slightly Turbid		
WEST	01/26/17	905	20	40	<3	None	None	None	None	Green		Slightly Turbid		
S7	01/26/17	855	40	20	7	None	None	None	None	Green		Slightly Turbid		
S8	01/26/17	850	90	30	5	None	None	None	None	Green		Slightly Turbid		
S9	01/26/17	840	600	100	20	None	None	None	None	Brown		Slightly Turbid		
ACM1	01/26/17	830	1,000	300	80	None	None	None	None	Brown		Turbid	Flowing	
S10	01/26/17	950	<20	<20	3	None	None	None	None	Green		Slightly Turbid		
S11	01/26/17	940	5	<20	7	None	None	None	None	Green		Slightly Turbid		
S12	01/26/17	820	5	<20	7	None	None	None	None	Green	60	Slightly Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: January 2017
 REPORT DUE: March 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 0950

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	01/30/17	825	20	9	2	None	None	None	None	Green		Clear		
S4	01/30/17	810	9	<20	2	None	None	None	None	Green		Slightly Turbid		
S5	01/30/17	750	9	9	20	None	None	None	None	Green	57	Slightly Turbid		
S6	01/30/17	1020	<20	<20	<4	None	None	None	None	Green		Clear		
WEST	01/30/17	1015	<20	<20	<4	None	None	None	None	Green		Clear		
S7	01/30/17	1010	<20	40	<5	None	None	None	None	Green		Slightly Turbid		
S8	01/30/17	1000	<20	<20	<3	None	None	None	None	Blue		Clear		
S9	01/30/17	855	9	20	5	None	None	None	None	Green	58	Slightly Turbid	Flowing	
ACM1	01/30/17	905	<20	<20	<3	None	None	None	None	Green		Clear	Flowing	
S10	01/30/17	915	<20	<20	<5	None	None	None	None	Green		Slightly Turbid		
S11	01/30/17	920	9	<20	2	None	None	None	None	Green		Clear		
S12	01/30/17	930	5	10	1	None	None	None	None	Green	58	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.

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: January 2017

REPORT DUE: March 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: Low Tide 707

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	01/04/17	4	<2	<2	800	0	0	
A-1	Mid depth	01/04/17	10	<10	<10				
A-2	Surface	01/04/17	<2	2	<2	748	0	0	
A-2	Mid depth	01/04/17	<10	10	<10				
A-3	Surface	01/04/17	6	2	<2	752	0	0	
A-3	Mid depth	01/04/17	20	<10	<10				
A-4	Surface	01/04/17	4	2	18	805	0	0	
A-4	Mid depth	01/04/17	10	10	140				
A-5	Surface	01/04/17	2	8	<2	758	0	0	
A-5	Mid depth	01/04/17	20	10	<10				
B-1	Surface	01/04/17	20	12	<2	740	0	0	
B-1	Mid depth	01/04/17	20	20	<10				
B-2	Surface	01/04/17	2	<2	<2	813	0	0	
B-2	Mid depth	01/04/17	<10	<10	<10				
N1	Surface	01/04/17	8	2	<2	835	0	0	
N2	Surface	01/04/17	4	4	<2	833	0	0	
N3	Surface	01/04/17	<2	2	<2	831	0	0	
N4	Surface	01/04/17	<2	4	<2	829	0	0	
N5	Surface	01/04/17	<2	<2	4	827	0	0	
N6	Surface	01/04/17	4	<2	<2	825	0	0	
N7	Surface	01/04/17	4	4	4	820	0	0	

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

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

ACOO Permit Order No. R9-2012-0013							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
There were no water quality violations during this reporting period.							



**SOCWA and MEMBER AGENCY FACILITIES
ACOO Spill / Overflow Report Log - 2017
Order No. R9-2012-0013 ~ NPDES Permit No. CA0107611**

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
SOCWA	Regional Treatment Plant	60	Tertiary Effluent	Broken 3WHP 1" reclaimed water line due to a broken elbow. Spill was contained and pumped back to the plant.	None	N/A	1/11/2017
SOCWA	Regional Treatment Plant	124,320	Secondary Effluent	One of two applied reclaimed water effluent pumps failed. These pumps push water from the reclaimed water effluent pond to the reclaimed water reservoirs. The single pump could not keep up with the demand thus leading to a spill from the pond. All flows were diverted to the outfall while the applied pump was repaired. Sandbags were placed around the overflow in an effort to contain secondary water in the pond.	Sulphur Creek Aliso Creek Pacific Ocean	1/23/2017	1/22/2017

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

January 2017

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC	SCWD	SJCOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	Desalter FLOW MGD	Desalter FLOW MGD	FLOW MGD	Fall inches
01/01/17	8.390	15.8	12.7		3.131				2.640				1.590				No Flow	No Flow	13.700	
01/02/17	7.200	11.9	9.5	0.2	2.890	10.7	8.0	<0.1	2.720	15.6	13.0	<0.1	1.482	7.6	7.0	<0.1	No Flow	No Flow	12.450	0.01
01/03/17	7.760	16.5	10.3	<0.1	3.170	8.4	6.0	<0.1	3.330	26.0	10.5	<0.1	1.663	1.6	8.0	<0.1	No Flow	No Flow	13.760	
01/04/17	7.300	11.0	5.3	0.1	2.874	7.9	5.0	<0.1	2.860	14.0	13.5	0.1	1.609	4.4	4.0	<0.1	No Flow	No Flow	12.410	
01/05/17	7.040	13.9	8.0	0.1	2.430	13.8	9.0	<0.1	2.350	15.2	11.2	0.1	1.606	4.0	4.0	<0.1	No Flow	No Flow	12.410	0.39
01/06/17	7.330	11.8	7.6	<0.1	3.350	11.9	9.0	<0.1	3.760	16.0	9.5	<0.1	1.565	3.2	5.0	<0.1	No Flow	No Flow	13.500	0.01
01/07/17	7.330				2.653				3.230				1.488				No Flow	No Flow	13.500	
01/08/17	7.140	15.6	11.7		3.010				3.750				1.581				No Flow	No Flow	13.170	
01/09/17	7.300	12.7	9.7	0.1	3.360	13.2	10.0	<0.1	4.330	21.6	10.8	0.1	1.718	4.4	9.0	<0.1	No Flow	No Flow	13.900	0.33
01/10/17	7.380	13.3	8.3	0.1	2.750	11.8	9.0	<0.1	4.120	13.2	10.6	0.2	1.684	6.8	8.0	<0.1	No Flow	No Flow	14.330	
01/11/17	6.910	12.0	9.2	<0.1	2.960	12.6	9.0	<0.1	3.370	15.2	11.9	0.1	1.562	6.4	5.0	<0.1	No Flow	No Flow	13.170	0.14
01/12/17	7.140	12.4	7.3	0.1	2.830	9.5	7.0	<0.1	3.800	14.4	12.4	<0.1	1.617	3.6	3.0	<0.1	No Flow	No Flow	14.030	1.13
01/13/17	9.150	9.7	6.6	0.2	4.510	15.2	11.0	<0.1	5.370	9.2	7.3	0.1	1.832	7.6	5.0	<0.1	No Flow	No Flow	18.480	
01/14/17	7.700				3.620				5.170				1.627				No Flow	No Flow	15.540	0.01
01/15/17	7.460	4.9	6.2		3.200				3.890				1.620				No Flow	No Flow	14.100	
01/16/17	7.210	9.9	7.5	0.1	3.270	11.2	9.0	<0.1	3.320	19.6	12.0	<0.1	1.549	3.6	10.0	<0.1	No Flow	No Flow	13.360	
01/17/17	7.370	13.7	7.8	0.1	2.810	8.3	6.0	<0.1	3.360	16.0	11.5	<0.1	1.495	2.0	10.0	<0.1	No Flow	No Flow	13.560	
01/18/17	6.870	9.3	6.7	0.1	2.740	9.7	7.0	<0.1	3.470	12.0	10.2	<0.1	1.382	14.8	7.0	<0.1	No Flow	No Flow	13.610	0.01
01/19/17	6.510	11.1	6.4	0.1	3.350	8.8	6.0	<0.1	4.290	18.0	7.3	<0.1	1.688	2.4	7.0	<0.1	No Flow	No Flow	14.050	0.91
01/20/17	7.420	9.9	6.8	0.1	2.687	14.0	10.0	<0.1	4.900	10.8	12.0	<0.1	1.524	2.8	6.0	<0.1	No Flow	No Flow	14.870	1.20
01/21/17	9.540				4.410				5.590				2.231				No Flow	No Flow	19.560	0.11
01/22/17	7.750	5.4	4.5		3.660				4.960				1.892				No Flow	No Flow	16.080	2.54
01/23/17	14.560	83.9	25.5	0.1	5.550	11.9	9.0	<0.1	8.170	28.8	13.0	<0.1	2.690	4.4	10.0	<0.1	No Flow	No Flow	28.290	0.34
01/24/17	9.940	14.4	10.2	0.1	4.330	12.8	9.0	<0.1	6.770	20.0	13.0	<0.1	2.110	4.4	12.0	<0.1	No Flow	No Flow	22.820	
01/25/17	8.060	12.1	13.4	0.1	3.700	12.4	9.0	<0.1	4.140	15.2	11.0	<0.1	1.836	3.6	4.0	<0.1	No Flow	No Flow	18.910	
01/26/17	8.170	6.7	5.0	0.1	3.200	11.8	9.0	<0.1	3.950	12.8	14.3	0.1	1.504	4.4	8.0	<0.1	No Flow	No Flow	17.960	
01/27/17	7.920	11.6	6.2	0.1	3.449	9.8	7.0	<0.1	3.730	8.0	12.3	0.1	1.673	5.2	8.0	<0.1	No Flow	No Flow	17.180	
01/28/17	7.210				2.270				3.460				1.579				No Flow	No Flow	16.010	
01/29/17	7.270	12.3	8.8		3.080				3.800				1.648				No Flow	No Flow	16.310	
01/30/17	7.320	13.5	10.4	0.1	3.170	10.4	8.0	<0.1	3.570	24.0	12.5	1.8	1.689	2.4	10.0	<0.1	No Flow	No Flow	16.090	
01/31/17	8.630	9.2	7.7	0.1	3.090	9.4	7.0	<0.1	2.980	12.4	9.5	0.2	1.610	2.0	9.0	<0.1	No Flow	No Flow	17.440	
AVG	7.880	14.2	8.9	<0.1	3.274	11.2	8.1	<0.1	4.037	16.3	11.3	<0.2	1.689	4.6	7.2	<0.1	0.000	No Flow	15.631	
TOTAL	244.280				101.504				125.150				52.344				0.000	No Flow	484.550	7.13

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: January 2017
 REPORT DUE: March 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 0545

Weather: Overcast

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	01/03/17	915	40	<40	20	None	None	None	None	Green		Slightly Turbid		
S1	01/03/17	920	<40	<40	100	None	None	None	None	Green		Turbid		
S2	01/03/17	830	40	40	400	None	None	None	None	Green	57	Slightly Turbid		
DSB5	01/03/17	822	>=200	90	72	None	None	None	None	Green		Turbid	Flowing	
S3	01/03/17	930	<40	<40	20	None	None	None	None	Green		Turbid		50
DSB4	01/03/17	925	<40	<40	40	None	None	None	None	Green		Slightly Turbid		
S5	01/03/17	940	20	<40	2	None	None	None	None	Green		Clear		
DSB1	01/03/17	945	<40	<40	<4	None	None	None	None	Green	59	Clear		
SJC1	01/03/17	840	<200	<200	20	None	None	None	None	Green	58	Slightly Turbid	Flowing	200

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: January 2017
 REPORT DUE: March 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 0643

Weather: Drizzle

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	01/10/17	905	>=1,100	700	840	None	None	None	None	Green	57	Turbid		
S1	01/10/17	850	480	100	>=20	None	None	None	None	Green		Turbid		
S2	01/10/17	935	220	200	1,600	None	None	None	None	Green		Turbid		
DSB5	01/10/17	949	>=7,800	2,400	>=3,900	None	None	None	None	Green		Turbid	Flowing	
S3	01/10/17	840	290	100	96	None	None	None	None	Green	58	Turbid		
DSB4	01/10/17	838	240	100	72	None	None	None	None	Green		Turbid		
S5	01/10/17	835	600	220	90	None	None	None	None	Green		Turbid		
DSB1	01/10/17	830	100	200	82	None	None	None	None	Green	59	Turbid		
C1	01/10/17	858	3,500	2,700	4,600	None	None	None	None	Green		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: January 2017
 REPORT DUE: March 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 1100

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	01/16/17	0850	200	70	90	None	None	None	None	Green	60	Turbid		
S1	01/16/17	0900	110	20	60	None	None	None	None	Green		Turbid		
S2	01/16/17	0820	160	40	100	None	None	None	None	Green	59	Turbid		
DSB5	01/16/17	0812	360	160	200	None	None	None	None	Green		Turbid	Flowing	
S3	01/16/17	0910	160	20	40	None	None	None	None	Green		Turbid		
DSB4	01/16/17	0905	90	50	49	None	None	None	None	Green		Turbid		
S5	01/16/17	0920	130	70	22	None	None	None	None	Green	60	Turbid		
DSB1	01/16/17	0925	70	40	30	None	None	None	None	Green		Turbid		
C1	01/16/17	0840	640	540	180	None	None	None	None	Green		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: January 2017
 REPORT DUE: March 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 0657

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							
S0	01/25/17	0845	>=370	630	1,500	None	None	None	None	Brown		Turbid		
S1	01/25/17	0857	>=470	90	420	None	None	None	None	Brown		Turbid		
S2	01/25/17	0835	>=200	200	540	None	None	None	None	Brown		Turbid		
DSB5	01/25/17	0805	>=5,000	800	6,200	None	None	None	None	Brown	54	Turbid		
S3	01/25/17	0900	100	100	500	None	None	None	None	Brown		Turbid		
DSB4	01/25/17	0912	100	70	200	None	None	None	None	Brown		Turbid		
S5	01/25/17	0925	200	70	280	None	None	None	None	Brown	58	Turbid		
DSB1	01/25/17	0930	700	<100	140	None	None	None	None	Brown		Turbid		
C1	01/25/17	0848	>=4,400	300	1,400	None	None	None	None	Brown		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: January 2017
 REPORT DUE: March 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 0950

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	01/30/17	856	400	80	90	None	None	None	None	Green	58	Slightly Turbid		
S1	01/30/17	847	40	20	60	None	None	None	None	Green		Slightly Turbid		
S2	01/30/17	912	40	<40	30	None	None	None	None	Green		Slightly Turbid		
DSB5	01/30/17	921	>1,500	760	400	None	None	None	None	Green		Slightly Turbid		
S3	01/30/17	840	40	20	7	None	None	None	None	Green	58	Slightly Turbid		
DSB4	01/30/17	842	50	20	7	None	None	None	None	Green		Slightly Turbid		
S5	01/30/17	835	20	<40	<4	None	None	None	None	Green		Slightly Turbid		
DSB1	01/30/17	828	20	<40	7	None	None	None	None	Green		Slightly Turbid		
C1	01/30/17	858	>1,400	200	300	None	None	None	None	Green	58	Slightly Turbid	Flowing	

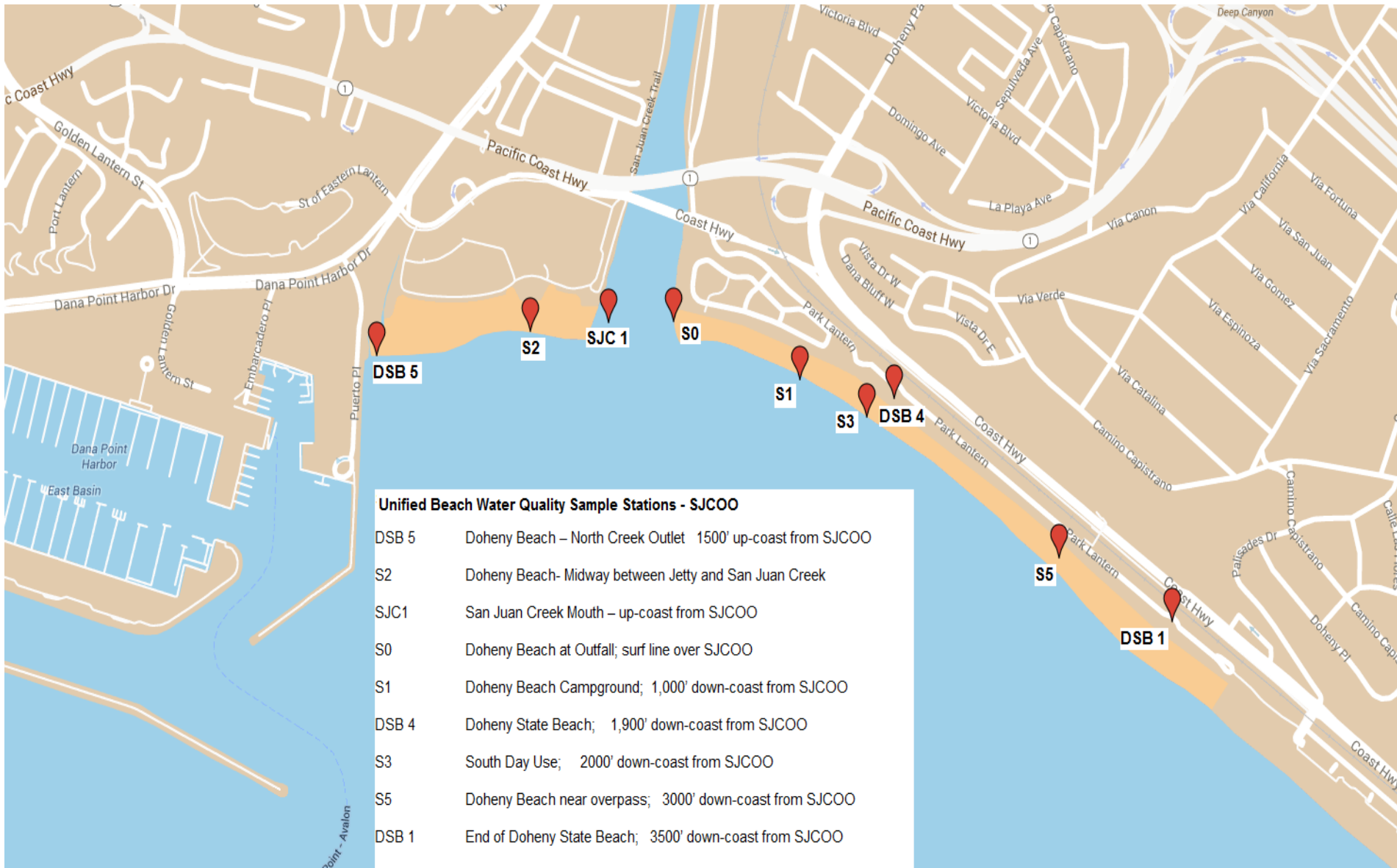
RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

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: January 2017

REPORT FREQUENCY: Monthly

REPORT DUE: March 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: Low Tide 707

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	01/04/17	<2	<2	<2	928	0	0	0 - None
A-1	Mid depth	01/04/17	<10	10	<10				1 - Mild
A-2	Surface	01/04/17	<2	<2	<2	930	0	0	2 - Moderate
A-2	Mid depth	01/04/17	<10	<10	<10				3 - Severe
A-3	Surface	01/04/17	<2	<2	<2	936	0	0	
A-3	Mid depth	01/04/17	<10	<10	<10				
A-4	Surface	01/04/17	196	138	2	1000	0	0	
A-4	Mid depth	01/04/17	30	30	<10				
A-5	Surface	01/04/17	210	82	<2	943	0	0	
A-5	Mid depth	01/04/17	20	<10	<10				
B-1	Surface	01/04/17	2	<2	2	921	0	0	
B-1	Mid depth	01/04/17	<10	<10	10				
B-2	Surface	01/04/17	<2	<2	<2	953	0	0	
B-2	Mid depth	01/04/17	<10	<10	<10				
N1	Surface	01/04/17	<2	<2	<2	915	0	0	
N2	Surface	01/04/17	<2	<2	<2	911	0	0	
N3	Surface	01/04/17	<2	<2	<2	908	0	0	
N4	Surface	01/04/17	4	2	<2	904	0	0	
N5	Surface	01/04/17	<2	<2	<2	901	0	0	
N6	Surface	01/04/17	<2	<2	<2	859	0	0	

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

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

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



**SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2017
Order No. R9-2012-0012 ~ NPDES Permit No. CA0107417**

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
SOCWA	JB Latham Plant	100	Primary	High flows experienced at the plant.	N/A	N/A	01-22-17

Recycled Water Report

**Compliance Summary Report
Recycled Water Permit
2017**

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

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Jan 31, 2017

Constituent	Units	12-month Avg Maximum Permit Limit	IRWD-LAWRP 12-month Average	ETWD-WRP 12-month Average	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average
			*	**							***
TDS	mg/L	1000	803	916	988	929	906	985	990	1,026	869
Chloride	mg/L	375	162	192	249	191	201	281	221	236	230
Sulfate	mg/L	400	233	233	279	294	275	264	295	310	270
Sodium	mg/L	None	154	160	200	158	145	223	178	185	165
Alkalinity	mg/L	None	-	-	-	-	-	-		265	186
Adjusted SAR	Ratio	None	4.93	-	5.78	4.57	4.17	6.05	5.11	4.43	4.47
Iron	mg/L	0.3	0.017	0.012	0.037	0.203	0.123	0.117	0.18	0.215	0.125
Manganese	mg/L	0.05	0.019	0.002	0.012	0.022	0.033	0.024	0.057	0.060	0.044
MBAS	mg/L	0.5	0.07	0.02	0.06	0.33	0.33	0.20	0.33	0.10	0.10
Boron	mg/L	0.75	0.35	0.287	0.352	0.293	0.333	0.378	0.30	0.325	0.27
Fluoride	mg/L	None	0.63	1.750	0.27	1.063	0.88	1.40	0.99	0.95	0.80
Total Organic Carbon	mg/L	None	9.1	-	8.5	8.5	9.7	8.6	11.0	11.5	10.5

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

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

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

TDS 910 mg/L

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

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

SOCWA Service Area Recycled Water Production (Ac-Ft) - 2017

Agency	Facility or Region	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Annual Totals
CSJC ¹	3-A Plant/MNWD	0.00												0.00
CSJC ²	Chiquita/SMWD	0.30												0.30
CSJC ³	Non-Domestic Well	3.18												3.18
ETWD	Region 8	27.67												27.67
IRWD														
⁴	IRWD - 8	2.71												2.71
⁴	IRWD - 9	1.11												1.11
SCWD	SOCWA CTP	3.32												3.32
MNWD	JRP	153.48												153.48
	3-A Plant	0.00												0.00
⁵	CTP	-1.25												-1.25
SMWD	Oso Creek	151.60												151.60
	Chiquita	197.02												197.02
	Nichols	1.73												1.73
TCWD	RRWRP	52.88												52.88
TOTALS		594.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	594.70

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

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

³ Denotes nondomestic groundwater produced from wells used for landscape irrigation.

⁴ IRWD production is from recycled water production, nonpotable water wells, and surface water impoundments

⁵ Denotes transfer of recycled water from SCWD (SOCWA CTP) for use in the MNWD service area. Not counted as additional production.

Note: All of ETWD reclaimed water produced and used in Region 8.

NR = No Report

Pretreatment Report

Agenda Item

Legal Counsel Review: N/A

Meeting Date: March 2, 2017

TO: SOCWA Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report, January 2017 and February 2017
San Juan Creek Ocean Outfall
NPDES Permit #CA0107417 Order #R9-2012-0012
Aliso Creek Ocean Outfall
NPDES Permit #CA0107611 Order #R9-2012-0013

Summary of Program Activities

SOCWA Staff continues to utilize the CA Manufactures Directory to perform its industrial waste survey (IWS) and identify potential industry requiring a permit to discharge wastewater.

- o Federal pretreatment regulations require SOCWA to 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's 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. **This Rule has not been published yet.** The status of the Dental Amalgam Rule remains very unclear. The final rule was pulled from the January 24 *Federal Register*, in response to the Trump Administration's "Regulatory Freeze Pending Review" memo. The Natural Resources Defense Council (NRDC) has now filed a lawsuit challenging EPA's decision to withdraw the final rule from the *Federal Register*, saying that this was a violation of the Administrative Procedures Act. SOCWA will be following this case, and we'll let you know as soon as we hear anything about the fate of this rule.

- o In the meantime, SOCWA aims to ensure that adequate IWS procedures are in place moving forward. On February 10, 2017, SOCWA Staff sent out emails to the following MA's and/or their Cities to obtain City listings of dental offices and to confirm that SOCWA periodically receives Water Will Serve Notices and/or Business Licensing Information: **ETWD** (City of Laguna Woods), **IRWD** (City of Lake Forest), **SCWD** (City of Dana Point), **CLB, CSC, CSJC, MNWD** (Cities of Aliso Viejo, Laguna Hills, and Laguna Niguel).

SOCWA Staff finished its 2016 Pretreatment Annual Report and submitted all portions to the State Water Board via electronic reporting (CIWQS) on February 14, 2017 (due March 1, 2017). All MA's will receive a copy of the Report which includes:

- o 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.
- o Influent and effluent priority pollutant data from each of the eight treatment plants.

Inspection Related Activities

SOCWA Staff conducted the following inspections on the following date:

- MNWD - Crown Valley Community Project on January 26, 2017 – conducted in response to January 22, 2017 rain event and termination of permit.
- MNWD – Dairy Fork Wetland Project on January 26, 2017 – conducted in response to January 22, 2017 rain event.
- MNWD - Alliance Residential Project on January 26, 2017 – conducted in response to January 22, 2017 rain event.
- SMWD & IRWD – Applied Medical on February 6, 2017 - conducted in regards to process wastewater discharges less than (<) 100 gallons per day – SOCWA Staff evaluated three new processes and their associated discharges to determine whether permitting is necessary. SOCWA issued three BMP Letters in response related to each site to ensure that adequate measures are implemented prior to and during the discharge to the sewer.
- CLB – Seven Degrees Art Studio on February 15, 2017 - SOCWA Staff inspected a groundwater wet well with sump pump associated with the property groundwater drainage system which presently flows to concrete storm drain channel. Inspection conducted in regards to a recent SWD Permit Application to connect the groundwater discharge to the sanitary sewer.

Permit Related Activities

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

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

CSC-2-008 – SWD Permit for SDG&E – SOCWA Staff has prepared a draft Special Wastewater Discharge (SWD) Permit for review to allow for the discharge of water accumulated in and collected from utility vaults within the jurisdiction of the CSC. As of January 11, 2017, the draft permit is currently under review of SDG&E Staff. Once comments are received, SOCWA will send CSC the final draft for review and signature.

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 and voice message on February 9, 2017 that a new agreement will be on the SCWD Committee and E&O agenda in March 2017.** SOCWA Staff has prepared a new draft permit which makes Dana Point the responsible party. Dana Point is in charge of the operations and maintenance of the diversion site, as of August 1, 2016.

- In anticipation of a rain event, the diversion was closed on September 19, 2016. Since Permit language states that the diversion is to be closed from October 15, 2016, through April 15th 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 and voice message on February 9, 2017 that a new agreement will be on the SCWD Committee and E&O agenda in March.** SOCWA Staff has prepared a draft 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 and voice message on February 9, 2017 that a new agreement will be on the SCWD Committee and E&O agenda in March.** 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.

**Summary of Activities and Types of IUs in the SOCWA Service Area.
 YTD through February 15, 2017.**

MA		Events	Permit	NIWD	BMP	FSE	OSE	Closed	Enforcement	# of IUs
CLB	(S)	1	3	2	5	8	111	0	0	129
CSC	(M)	0	5	35	18	181	1283	0	0	1522
CSJC	(S)	0	2	27	59	137	1669	0	0	1894
ETWD	(M)	0	3	98	0	262	134	0	0	497
EBSD	(U)	0	1	0	0	0	0	0	0	1
IRWD	(S)	0	3	51	21	63	920	0	0	1058
MNWD	(S)	15	6	125	40	600	2031	2	0	2802
SMWD	(S)	10	5	20	20	176	718	0	0	939
SCWD	(S)	0	14	33	7	148	184	0	0	386
TCWD	(S)	0	11	0	0	7	33	0	0	51
SOCWA	(S)	1	3	0	0	0	0	0	0	3
Totals		14	56	391	166	1580	7081	2	0	9282
Dentist (All)										380
										Total Known IUs 9662

(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: March 2, 2017

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Capital Improvement Program Status Report

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

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

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
3213-000	Water System Piping Improvements (2014)	Design	Study completed. Remaining work is part of the Package 'B' Improvements.
3201-000	Aeration/Secondary Upgrade (2009)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has substantially completed the aeration improvements.
3214-000	4MGD Diversion Flow Meter & Control Structure (2012)	Design	Part of the Package 'B' Improvements.
3212-000	East Primary Influent Channel Repair (2015)	Design	Part of the Package 'B' Improvements.
3202-000	Preliminary and Primary Treatment Improvements (Package "B") (2016)	Design	Technical Memoranda No.2 and No. 3 have been submitted for SOCWA staff review.
3203-000	Effluent Standby Generator ATS Replacement (2016)	Design	Gateway Pacific is currently working on installation of new auto transfer switch. Completion expected in March, 2017.
3252-000	Plant 1 Standby Power Generator Replacement (2017)	Design	Kick-off meeting held with Hazen & Sawyer on February 9, 2017.
3251-000	Effluent Flow Meter Replacement (2017)	Design	Kick-off meeting held with Hazen & Sawyer on February 9, 2017.
3250-000	Plant 1 Grit Basin Improvements (2017)	Design	Kick-off meeting held with Hazen & Sawyer on February 9, 2017.
3253-000	Effluent System Valve Replacement (2017)	Design	Kick-off meeting held with Hazen & Sawyer on February 9, 2017.
3204-000	Facility Improvements - Structural Repair (2015)	Constuction	Part of the Package 'A/C' Improvements. Gateway Pacific has substantially completed the structural improvements.

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

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT COMMON			
3218-000	Energy Building Roof Reconstruction (2015)	Design	Part of the Package 'B' Improvements.
3206-000	Diesel Storage Tank (2016)	Design	Installation of the new storage tank has been substantially completed.
4014-000	Foul Air System Evaluation (2016) (NCP)	Study	The kickoff meeting for the project was 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	Purchase Order issued to Hazen & Sawyer.
CAPITAL IMPROVEMENT PROJECT SOLIDS			
3209-000	Facility Improvements - Co-Generation Reconstruction (2015)	Construction	Part of the Package 'A/C' Improvements. Gateway Pacific currently installing the controls for the new co-generation system. Project completion anticipated in March, 2017.
3272-000	Dewatering System Controls Upgrade (2017)	Construction	Award of contract to Andritz to be recommended at March 2, 2017, SOCWA Board Meeting.
4002-000	Dewatering System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued; proposals due March 28, 2017.
4003-000	Heating System Condition Assessment (2017) (NCP)	Condition Assessment	RFP for engineering services to be issued; proposals due March 28, 2017.
3210-000	Facility Improvements - Solids Area (2015)	Design	Technical Memoranda No.2 and No. 3 have been submitted for SOCWA staff review.

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

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

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

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

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

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

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

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
3553-000	Plant Drainage Improvements (2017)	Design	RFP for design services to be issued in March, 2017.
3554-000	Odor Scrubber Bleach Tank Replacement (2017)	Design	Project completed by Operations Department.
4015-000	Conceptual Building Design (2017) (NCP)	Study	RFP for engineering services to be issued; proposals due March 30, 2017.
3503-000	Scrubber Upgrade (2013)	Construction	Part of the Miscellaneous Improvements 2017 project current out to bid; bid opening on March 22, 2017.
CAPITAL IMPROVEMENT PROJECT AWT			
3516-000	Disinfection System Upgrade (AWT) (2011)	Construction	This item is part of the Miscellaneous Improvements 2015 project. Pascal & Ludwig has completed the installation of the process equipment.
1357	Hypochlorite Tank (AWT) (2013)	Construction	The new tank has been installed.
3562-000	AWT Applied Water Pump Replacement (2017)	Bidding	Part of the Miscellaneous Improvements 2017 project current out to bid; bid opening on March 22, 2017.
4006-000	Effluent Equalization System Condition Assessment (2017) (NCP)	Condition Assessment	Condition assessment completed in January; SOCWA staff is awaiting report.
4007-000	Contact Basins Condition Assessment (2017) (NCP)	Condition Assessment	Condition assessment completed in January; SOCWA staff is awaiting report.
3517-000	AWT Backwash Water Pump Replacement (2016)	Bidding	Part of the Miscellaneous Improvements 2017 project current out to bid; bid opening on March 22, 2017.
3518-000	Chlorine Mixer Replacement (2015)	Construction	This item is part of the Miscellaneous Improvements 2015 project; the work is substantially complete.

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

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
3701-000	Secondary Electrical System Rerouting (2014)	Design	RFP has been distributed; proposals due on March 2, 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 March 2, 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)	Construction	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)	Construction	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
3752-000	AWT No.2 Upgrade Design (2017)	Design	The project kick-off meeting with Carollo Engineers was held on January 26, 2017.
201717RL1	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)	Condition Assessment	Project has been awarded to V&A consultants; assessments to be performed in December, 2017.

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

Task Code	Description	Phase	Status
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
1410	Aeration System Analysis (2015)	Study	Draft memorandum 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 April, 2017.
CAPITAL IMPROVEMENT PROJECT COMMON			
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 was held on January 10, 2017.
3761-000	External Lighting Upgrade (2017)	Design	Draft memorandum submitted by Hazen & Sawyer.
3763-000	Reroute Plant Drains (2017)	Construction	Project being performed by SOCWA Operations staff.
3762-000	Secondary Access Road CEQA (2017)	Permitting	SOCWA reviewing proposal from Dudek for CEQA services.
3764-000	SCADA System Improvements (2017)	Construction	Project underway by SOCWA Operations Dept.
3717-000	Security Fencing (2015)	Construction	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
3718-000	Access Bridge Upgrades (2015)	Construction	This is part of the RTP Miscellaneous Improvements 2016 Project. The project is in the shop drawing phase.
CAPITAL IMPROVEMENT PROJECT SOLIDS			
3720-000	Digester Dome Recoating (2014)	Construction	Pacific Hydrotech has substantially completed this work.
1478	Underground Piping Upgrade (2006)	Construction	Pacific Hydrotech has substantially completed this work.
3722-000	Co-Generation System Retrofit (2008)	Construction	Pacific Hydrotech completed boiler start-up in December, 2016.
3723-000	Recoat Top of Digesters (2016)	Construction	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>
CAPITAL IMPROVEMENT PROJECTS			
4013-000	Emergency Plan Development (2016) (NCP)	Study	Project review meeting held on February 23,2017.

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

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

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

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

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

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

Task Code	Description	Fiscal Year 16/17		Fiscal Year 17/18			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2015		C					
1352	Lighting System Improvements (2014)	C					
3501-000	Fire Protection (2013)	C					
3502-000	RAS Hypochlorite System (2013)	C					
3505-000	Headworks Overflow Pipe Modifications (2015)	C					
3506-000	Structural Modifications - Site (2015)	C					
3516-000	Disinfection System Upgrade (AWT) (2011)	C					
1357	Hypochlorite Tank (AWT) (2013)	C					
3518-000	Chlorine Mixer Replacement (2015)	C					
3515-000	Existing Export Sludge Wetwell Refurbishment (2015)	C					
FACILITY IMPROVEMENTS PACKAGE		P	D	D	D	B&A	C
3504-000	Aeration System Modification Design (2015)	P	D	D	D	B&A	C
3509-000	Switchgear Replacement Design (2016)	P	D	D	D	B&A	C
3514-000	CTP Facility Upgrade Design (2016)	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			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2017		B&A	C	C	C	C	
3507-000	East Primary Influent Gates (2015)	B&A	C	C	C	C	
3508-000	Grit System Knife Gate Valve Replacement (2015)	B&A	C	C	C	C	
3510-000	Grating Rebate and Concrete Repair Between Aeration Basins and Primary Basins (2016)	B&A	C	C	C	C	
3512-000	Grating Rebate and Concrete Repair Between HW Building and Primary Basins (2016)	B&A	C	C	C	C	
3550-000	Export Sludge Pump Addition (2017)	B&A	C	C	C	C	
3554-000	Odor Scrubber Bleach Tank Replacement (2017)	B&A	C	C	C	C	
3503-000	Scrubber Upgrade (2013)	B&A	C	C	C	C	
3562-000	AWT Applied Water Pump Replacement (2017)	B&A	C	C	C	C	
3517-000	AWT Backwash Water Pump Replacement (2016)	B&A	C	C	C	C	
EXPORT SLUDGE SYSTEM REPLACEMENT		ENV	B&A	C	C	C	C
1367	Export Sludge Line Repair & Rip Rap (R - 2) (2012)	ENV	B&A	C	C	C	C
3534-000	Export Sludge System (1997)	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 17/18					
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
INDEPENDENT PROJECTS							
4022-000	Influent/Overflow Condition Assessment (2016)						
3552-000	SCADA System Improvements (2017)	C					
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			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLANEOUS IMPROVEMENTS 2016		C	C	C			
3707-000	Influent Manholes 1 and 2 and Sewer Repair (2016)	C	C	C			
3708-000	Influent Junction Structure Gate Replacement (2016)	C	C	C			
3710-000	AWT Water Quality Instrumentation (2016)	C	C	C			
3712-000	Grit Basin Drop Gate and Weir Replacement (2016)	C	C	C			
3717-000	Security Fencing (2015)	C	C	C			
3718-000	Access Bridge Upgrades (2015)	C	C	C			
3723-000	Recoat Top of Digesters (2016)	C	C	C			
COGENERATION AND SWITCHGEAR UPGRADE		C	C	C			
3715-000	Switchgear Upgrade (2006)	C	C	C			
3720-000	Digester Dome Recoating (2014)	C	C	C			
1478	Underground Piping Upgrade (2006)	C	C	C			
3722-000	Co-Generation System Retrofit (2008)	C	C	C			
MISCELLANEOUS IMPROVEMENTS 2017		D	D	D	D	B&A	C
3701-000	Secondary Electrical System Rerouting (2014)	D	D	D	D	B&A	C
3702-000	Waste Activated Sludge VFD Control Panel (2013)	D	D	D	D	B&A	C
3730-000	Primary Gallery Upgrade (2014)	D	D	D	D	B&A	C
3761-000	External Lighting Upgrade (2017)	D	D	D	D	B&A	C

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

Task Code	Description	Fiscal Year 16/17		Fiscal Year 17/18			
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
INDEPENDENT PROJECTS							
3704-000	Odor Control Scrubber Control Panel No. 1 (2013)						
201617RL3	Influent Junction Structure and Pipe Condition Assessment (2016) (NCP)		CA	CA			
201717RL1	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)				CA	CA	
1410	Aeration System Analysis (2015)	P					
201617RL5	Primary Influent Channel Condition Assessment (2016) (NCP)	CA					
3760-000	Develop Buried Piping Reconstruction Master Plan (2017)	P	P				
3762-000	Secondary Access Road CEQA (2017)	ENV	ENV				
3764-000	SCADA System Improvements (2017)	C	C				
3763-000	Reroute Plant Drains (2017)	C					
3752-000	AWT No.2 Upgrade Design (2017)	D	D				

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

Project Committee No. 2

May 23, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 2 was held on Monday, May 23, 2016 at 2:30 p.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the SOCWA Board of Directors were present:

JOONE LOPEZ, Moulton Niguel Water district	Director
DAN FERONS, Santa margarita Water District	Director
RAY MILLER, City of San Juan Capistrano	Director
RICK ERKENEFF, South Coast Water District	Director

Staff present:

BETTY BURNETT	General Manger/Secretary
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone

Also present:

GEORGE PETERSON	Zephyr
BRENNON FLAHIVE	Environmental Compliance Administrator
JIM BURROR	Director of Operations

Chairman Erkeneff called the meeting to order at 2:30 p.m. and welcomed everyone present.

Public Comments

There were no comments received.

Agreement for Use of Storm Water Pump Station – 34202 Del Obispo Development (Zephyr)

Mr. Peterson provided a brief summary of the history of the property negotiations, MOU and current proposed agreement. An open discussion ensued.

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Miller to move approval of the Project Committee No. 2 Board of the proposed agreement and provide General Manager authority to execute the agreement.

Motion carried:	Aye 8; Nay 0; Abstain 0; Absent 2.	
	Chairman Ferons	Aye
	Director Lopez	Aye
	Director Miller	Aye
	Director Erkeneff	Aye

Closed Session

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

Adjournment

There being no further business, Chairman Erkeneff adjourned the meeting at 4:26 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 2 of May 23, 2016, and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

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

Agenda Item

Budgeted: Yes

Budget amount: \$18,427,870

Line Items: PC 2 Tasks 3201-000, 3204-000, 3205-000, and 3209-000

Legal Counsel Review: No

Meeting Date: March 2, 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 37 and 38 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 37 for the Secondary Treatment System Improvements (PC 2, Task 3201-000).

CO #	CO Item	Description	Change Order Price	Total Change Order Price*	Status
37	Add Overhead Conduit and Wire to Secondary Drive Motors	Existing wire and conduit to Plant 1 secondary sludge collector drives were found to be unusable.	\$12,949.66	\$73,620.75	SOCWA Engineering Committee Recommended

* Cumulative for specific budget task code.

2. Approve Change Order 38 for the Plant 2 Power Supply Improvements (PC 2, Task 3205-000)

CO #	CO Item	Description	Change Order Price	Total Change Order Price*	Status
38	Install Underground Pull-box at Site of Plant 2 Switchgear.	SOCWA requested that an underground pull-box be installed at location of demolished Plant 2 switchgear to allow future use of original conduits to Plant 2 Blower Building.	\$7,639.78	\$162,238.81	SOCWA Engineering Committee Recommended

* Cumulative for specific budget task code.

Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on February 9, 2017.

Financial Status

Original Contract Amount:	_____	\$ 13,951,363.00
Net change by previous change orders:	_____	\$ 634,989.65
Contract amount prior to this change order:	_____	\$ 14,586,352.65
Net increase, decrease due to this change order:	_____	\$ 20,589.44
New contract amount, including this change order:	_____	\$ 14,606,942.09

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	3201-000	3205-000	Total
Member Agency	Liquids	Common	
Moulton Niguel Water District	\$2,988.78	\$1,709.02	\$4,697.80
City of San Juan Capistrano	\$3,984.61	\$2,326.31	\$6,310.92
Santa Margarita Water District	\$2,241.59	\$1,746.45	\$3,988.04
South Coast Water District	\$3,734.68	\$1,857.99	\$5,592.68
Total	\$12,949.66	\$7,639.78	\$20,589.44

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 *
Budget (2016/2017)	7.4	0.7	3.7	6.6	18.4
Budget Task Codes	3201-000	3204-000	3205-000	3209-000	
<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>	0.074	0.135	0.162	0.148	0.519
<u>Study & Design</u>					
<u>(Upfront Costs)</u>	1.268	0.000	0.241	0.000	1.509
Contingency	0.576	0.069	0.235	0.001	0.880
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
Total Project Costs	7.4	0.7	3.7	6.6	18.4
<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)
Remaining Budget	0.0	0.0	0.0	0.0	0.0
*Grants				0.8	0.8
Net SOCWA Costs	7.4	0.7	3.7	5.8	17.6

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

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

Project Committee No. 15

February 16, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on Thursday, February 16, 2017 at 1:00 p.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

JOHN PIETIG	City of Laguna Beach
ANDY BRUNHART	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District
TONI ISEMAN	City of Laguna Beach [exit 1:05 p.m.]

Absent:

JOONE LOPEZ	Moulton Niguel Water District
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Also present:

PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
ALLISON BURNS	Emerald Bay Service District
PHIL KOHN	City of Laguna Beach
ART KIDMAN	South Coast Water District
JEREMY JUNGREIS	Rutan & Tucker

Chairman Dunbar called the meeting to order at 1:00 p.m. and welcomed everyone present.

Public Comments

Chairman Dunbar asked if members of the public desired to address the Board, or desired to reserve addressing the PC 15 Board during the meeting regarding any times on the Agenda.

There were no public comments received.

The Board meeting went into Closed Session at 1:05 p.m.

Closed Session

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

POTENTIAL LITIGATION – IN 1 MATTER

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

The Board meeting reconvened at 3:40 a.m.

Report Out of Closed Session

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

Adjournment

There being no further business, Director Dunbar adjourned the meeting at 3:41 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of February 16, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

February 2, 2017

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on Thursday, February 2, 2017 at 7:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

JOHN PIETIG	City of Laguna Beach
ANDY BRUNHART	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District

Absent:

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

Also present:

BETTY BURNETT	General Manager
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
PHIL KOHN	City of Laguna Beach
ART KIDMAN	South Coast Water District
JEREMY JUNGREIS	Rutan & Tucker [via conference call]

Chairman Dunbar called the meeting to order at 7:30 a.m. and welcomed everyone present.

Public Comments

Chairman Dunbar asked if members of the public desired to address the Board, or desired to reserve addressing the PC 15 Board during the meeting regarding any times on the Agenda.

There were no public comments received.

Chairman Dunbar reported that Mr. Jeremy Jungreis would be participating via telephone conference.

The Board meeting went into Closed Session at 7:32 a.m.

Closed Session

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

POTENTIAL LITIGATION – IN 1 MATTER

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

The Board meeting reconvened at 8:28 a.m.

Report Out of Closed Session

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

Adjournment

There being no further business, Director Dunbar adjourned the meeting at 8:30 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of February 2, 2017, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

April 25, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on Monday, April 25, 2016 at 2:00 p.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

TONI ISEMAN	City of Laguna Beach
JOONE LOPEZ	Moulton Niguel Water District
RICK ERKENEFF	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District

Also present:

BETTY BURNETT	General Manager
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
TERI NOSON	Clerk of the Board/Executive Assistant
RICHARD LAMPRECHT	Laguna Niguel LDS Stake
SCOTT SMITH	San Clemente LDS Stake
CARLOS N. OLVERA	Dana Point Ward
DOUG HARLINE	Dana Point Ward
ERIC ALLEN	LDS Church
FRED ADJARIAN	El Toro Water District
DENNIS ERDMAN	South Coast Water District
DAN FERONS	Santa Margarita Water District
MATT COLLINGS	Moulton Niguel Water District
DON FROLICH	Moulton Niguel Water District
SCOTT COLTON	Moulton Niguel Water District
RICHARD FIORE	Moulton Niguel Water District
PAUL COOK	Irvine Ranch Water District
STACY BLACKWOOD	OC Parks
SCOTT MAYER	County of Orange

Director Dunbar called the meeting to order at 2:05 p.m. and welcomed everyone present. Director Lopez led the Pledge of Allegiance to the Flag of the United States of America.

Chairman Dunbar thanked everyone present for their time dedicated to AWMA Bridge matter and noted SOCWA staff's time and energy into putting this meeting together.

Chairman Dunbar provided comments clarifying misconceptions, misperceptions and misinformation; and, addressed the issue of a meeting before the full SOCWA Board. Mr. Dunbar stated that as the SOCWA Chair he had determined that the full Board was not required. This was due to the fact that only the four (4) Project Committee No. 15 members would be voting on the AWMA Bridge matter. SOCWA is the legal entity, however, the SOCWA Project Committees control the 'purse strings' and payments.

Regarding negotiating a resolution to the AWMA Bridge matter, Chairman Dunbar stated that SOCWA will not negotiate in public and staff has been directed accordingly. However, due to the nature of the matter and the various statements on both sides, legal counsel is present to

address the indemnity and liability issue in open session. There will be an open and closed session at this meeting.

Chairman Dunbar stated that he has appreciated comments from others and noted that there were still matters to be determined regarding indemnity and liability.

Chairman Dunbar noted that there was the perception that SOCWA has negotiated in bad faith. Chairman Dunbar reported that this was not the case and stated legal counsel for respective parties was negotiating for their clients, and negotiators have a difference of opinion.

Chairman Dunbar addressed the misconception that ‘SOCWA was maybe bluffing and it was not really going to close the bridge. Chairman Dunbar stated that was not the case, and reported that he was willing to close the bridge and understood that to be the opinion of other PC 15 Directors.

AWMA Bridge

Ms. Burnett provided a brief summary regarding the AWMA Bridge, and Ms. Giannone provided brief comments regarding indemnification and risk transfer.

Public Comments

Comments were received, regarding item 3. AWMA Bridge, from Scott Smith, Richard Lamprecht, Carlos Olvera, Doug Harline, Eric Allen, and Scott Mayer. The County Representatives asked that Ms. Lopez take over negotiations for SOCWA.

Director Lopez inquired for clarity of the record that there was a staff recommendation for the AWMA bridge item. Director Lopez also stated her preference for assuming negotiations for SOCWA.

Chairman Dunbar reported that the possible action by the Project Committee No. 15 is that Project Committee No. 15 approves the terms for a transfer agreement with the County and delegates authority to the Chair and General Manager to enter into and execute a transfer agreement in accordance to Project Committee No. 15 direction. Chairman Dunbar clarified for the record his recommendation that parties assigned to negotiate for SOCWA not be changed at this time. An open discussion ensued.

The Chairman adjourned the Board meeting for a brief recess at 3:00 p.m.

The Board meeting reconvened at 3:10 p.m. and went into Closed Session at 3:11 p.m.

Closed Session

- A. Closed Session will be conducted under Government Code Section 54956.9 for the following purpose:

POTENTIAL LITIGATION

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

- B. A Closed Session will be conducted under Government Code Section 54956.8 to: Confer with Real Property Negotiators – Price and Terms, conveyance of AWMA Bridge to County of Orange.

PROPERTY: The AWMA Bridge is located at: the Intersection of AWMA Road and Alicia Parkway at the entrance to the County’s Woods Canyon/Aliso Canyon Wilderness Park(s).

NEGOTIATING PARTIES: SOCWA, County of Orange/Scott Mayer
SOCWA NEGOTIATOR: Board President, General Manager
UNDER NEGOTIATIONS: Price/Terms of Payment

Mr. Dunbar called a recess in the closed session at 3:15 p.m. in order that Mrs. Burnett would speak with County Representative Scott Mayer and SCWD Counsel Art Kidman to discuss a possible compromise on indemnification language. Closed Session reconvened at 3:25 p.m.

- C. Report Out of Closed Session
The Board meeting reconvened at 3:30 p.m.

Report Out of Closed Session

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

AWMA Bridge

ACTION TAKEN

Motion was made by Director Lopez and seconded by Director Erkeneff to approve the *Agreement Regarding Aliso Water Management (AWMA) Bridge and AWMA Road – North Section* with a modification to the indemnification as compromised between the County Representative and Mrs. Burnett and the final agreement will be completed by SOCWA Counsel and County Counsel.

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

Director Lopez	Aye
Director Iseman	Aye
Chairman Dunbar	Aye
Director Erkeneff	Aye

Adjournment

There being no further business, Director Dunbar adjourned the meeting at 3:33 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of April 25, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

April 7, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on Thursday, April 7, 2016 at 10:30 a.m. at the SOCWA Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

TONI ISEMAN	City of Laguna Beach
JOONE LOPEZ	Moulton Niguel Water District
RICK ERKENEFF	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District

Also present:

BETTY BURNETT	General Manager
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
JIM BURROR	Director of Operations

Director Dunbar called the meeting to order at 10:55 a.m. and welcomed everyone present.

Public Comments

There were no public comments received.

AWMA Bridge

Ms. Burnett provided a brief summary regarding the AWMA Bridge.

Closed Session

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

POTENTIAL LITIGATION

Pursuant to Government Code Section 54956.9 Closed Session will be conducted to confer with legal counsel RE: potential litigation in 2 matters.

Report Out of Closed Session

Mr. Dunbar reported that PC 15 did meet in closed session to discuss some terms for conveyance of the AWMA Bridge. Agency representatives do have a frame work that all PC15 members agree to, that frame work is in line with what the County has offered, there are some clarifications that we would like, but we are moving forward, the good news is we are following the basic framework of the County. You have our assurance of that and the direction was unanimous by all PC15 members.

We will be sending the information through the official negotiating team which is Mrs. Burnett and myself to the County. Should you have any questions, you can direct them to us. We all have agreed that we will convene with each other and keep each other informed.

Adjournment

There being no further business, Director Dunbar adjourned the meeting at 11:25 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of April 7, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

March 17, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on Thursday, March 17, 2016 at 10:00 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

TONI ISEMAN	City of Laguna Beach [via conference call]
LARRY LIZOTTE	Moulton Niguel Water District
RICK ERKENEFF	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District

Staff present:

BETTY BURNETT	General Manager/Secretary
TERI NOSON	Executive Assistant/Clerk of the Board

Also present:

BILL MEADERS	LDS Church
JACOB DOWSE	LDS Church
JIM KING	LDS Church
DAVE DOYLE	City of Aliso Viejo
RICHARD GARDNER	Public

Director Dunbar called the meeting to order at 10:01 a.m. and welcomed everyone present.

Public Comments

Mr. Meaders requested that SOCWA not close the AWMA Bridge tomorrow and work with the Church and County to find an alternative resolution to the bridge access.

Mr. Gardner expressed concerns regarding the closure and safety of the AWMA Bridge as well as repercussions of the AWMA Bridge closure and SOCWA's reputation and requested long-term solutions regarding the AWMA Bridge, access roads and Woods Canyon Regional Park.

AWMA Bridge

Ms. Burnett provided a brief overview of the history of the AWMA bridge matter and highlighted safety concerns to keep the public safe when using the bridge. An open discussion ensued.

The Board went into closed session at 11:25 a.m.

Closed Session

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

POTENTIAL LITIGATION – IN 2 MATTERS

Pursuant to Government Code Section 54956.9 Closed Session will be conducted to confer with legal counsel RE: potential litigation in two (2) matters.

The Board meeting reconvened at 10:19 a.m.

Report Out of Closed Session

Chairman Dunbar deferred report out of closed session comments to Ms. Burnett.

Ms. Burnett reported that there was a Board of Supervisors meeting on March 22, 2016, and that SOCWA would send the Board of Supervisors a letter stating that the March 22nd Board of Supervisors meeting must have an agenda item for that meeting providing SOCWA with a 45 day indemnity to keep the bridge open. Further, that SOCWA is not interested in an extension of time beyond the 45 days. Further the letter would include that Board of Supervisor member Lisa Bartlett has to meet with the SOCWA Board representatives (Mrs. Burnett and Mike Dunbar) before the March 22nd Board of Supervisors Meeting as well as the CEO Frank Kim to hear SOCWA concerns. If the Board of Supervisors complies with that initial request for the 45 days extension, within the 45 days there has to be an agreement back on the Board of Supervisors agenda as worked out between the two parties. This will keep the one-way open on the bridge and during that time SOCWA will provide a guard on the bridge.

Chairman Dunbar reported that the bridge will remain open and if SOCWA did not hear from the County and it is not on the Board of Supervisors agenda for the March 22nd meeting, the bridge will close that evening.

Ms. Burnett suggested that the Mr. Dowse and member of the LDS Church reach out to member Lisa Bartlett of the Board of Supervisors and request that she meet with SOCWA, and reach out to all of the Supervisors as to the need for South County.

Chairman Dunbar thanked Mr. Dowse and members of the LDS Church for attending the meeting and looked forward to working with them and the County.

Adjournment

There being no further business, Director Dunbar adjourned the meeting at 12:02 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of March 17, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

March 16, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on Wednesday, March 16, 2016, at 1:00 p.m. at the Church of Jesus Christ of Latter-day Saints, 28291 Alicia Parkway, Laguna Niguel, California. The following members of Project Committee No. 15 were present:

TONI ISEMAN	City of Laguna Beach
LARRY LIZOTTE	Moulton Niguel Water District
RICK ERKENEFF	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District

Staff present:

BETTY BURNETT	General Manager
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
JEFF HOSKINSON	Bowie, Arneson, Wiles & Giannone
JIM BURROR	Director of Operations
DAN WHEELER	Superintendent of Operations & Maintenance
HILLARY KELLY	Chief Operator, Coastal Treatment Plant
TERI NOSON	Executive Assistant/Clerk of the Board

Also present:

CHRIS TOWNSEND	Townsend & Associates
GREG STAPLEY	Church - Local
ROBERT DAVIS	LDS Church - Local
NATE WORTHERN	LDS Church
DEAN OSSOLA	LDS Church - Local
JIM KING	LDS Church Facilities
BILL MEADERS	Kirton McConkie
MARILYN SMITH	AVAC
LISA NAEGELE	AVAC
GARY KURTZ	Public
NANCY KURTZ	Public
MATT COLLINGS	Moulton Niguel Water District
JACOB DOWSE	Church of Jesus Christ of Latter-day Saints
RICHARD COARDALER	Public
MIKE POURARYAN	Public – City of Laguna Niguel
SHARON HICKENSON	Church – Boy Scouts
CARL NELSON	Public
MIKE BALSAMO	Public
BOB BRYAN	Public
GREG SLOAN	Park User
WAYNE SMITH	Public

Director Dunbar called the meeting to order at 1:10 p.m. and welcomed everyone present. Director Dunbar welcomed the public to provide comments regarding the AWMA Bridge.

Public Comments

The following members of the public provided comments and concerns regarding the closure and restrictive use of the AWMA Bridge: Nancy Kurtz, Greg Stapley, Jacob Dowse, Richard Gardner, Carl Nelson and Mike Balsamo.

AWMA Bridge

Ms. Burnett and Mr. Townsend provided a background summary of the AWMA Bridge. Director Dunbar, Director Iseman, Director Lizotte and Director Erkeneff welcomed questions and provided brief comments.

During the open discussion portion of the meeting, Mrs. Burnett and Mr. Dunbar left the meeting to attend a simultaneous closed door meeting arranged by the County of Orange with representatives of the LDS Church, the City of Aliso Viejo, The City of Laguna Niguel, County representatives of various departments including Parks, and School District representatives.

ACTION TAKEN:

Information Item, no action required.

Adjournment

There being no further business, Director Dunbar adjourned the meeting at 1:49 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of March 16, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Project Committee No. 15

February 26, 2016

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on Friday, February 26, 2016, at 10:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

TONI ISEMAN	City of Laguna Beach [via conference call]
LARRY LIZOTTE	Moulton Niguel Water District
RICK ERKENEFF	South Coast Water District
MIKE DUNBAR	Emerald Bay Service District

Staff present:

BETTY BURNETT	General Manager
PAT GIANNONE	Bowie, Arneson, Wiles & Giannone
JIM BURROR	Director of Operations

Also present:

RICK SHINTAKU	South Coast Water District
DENNIS ERDMAN	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District

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

Public Comments

There were no public comments received.

AWMA Bridge Closure Plan

Ms. Burnett reviewed the AWMA Bridge Closure plan as well as the provided letter handout from the LDS Church.

Mr. Burror provided the PowerPoint presentation *AWMA Bridge February 26, 2016*, which are herewith attached to these minutes. An open discussion ensued.

The Chairman adjourned the Board of Directors Meeting for a five (5) minute recess at 11:20 a.m.

The Board meeting reconvened at 11:25 a.m. and went into closed session at 11:26 a.m.

Closed Session

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

POTENTIAL LITIGATION – IN 1 MATTER

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

Report Out of Closed Session

No action taken.

Adjournment

There being no further business, Director Dunbar adjourned the meeting at 12:15 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 15 of February 26, 2016, and approved by the Board of Directors of the South Orange County Wastewater Authority.

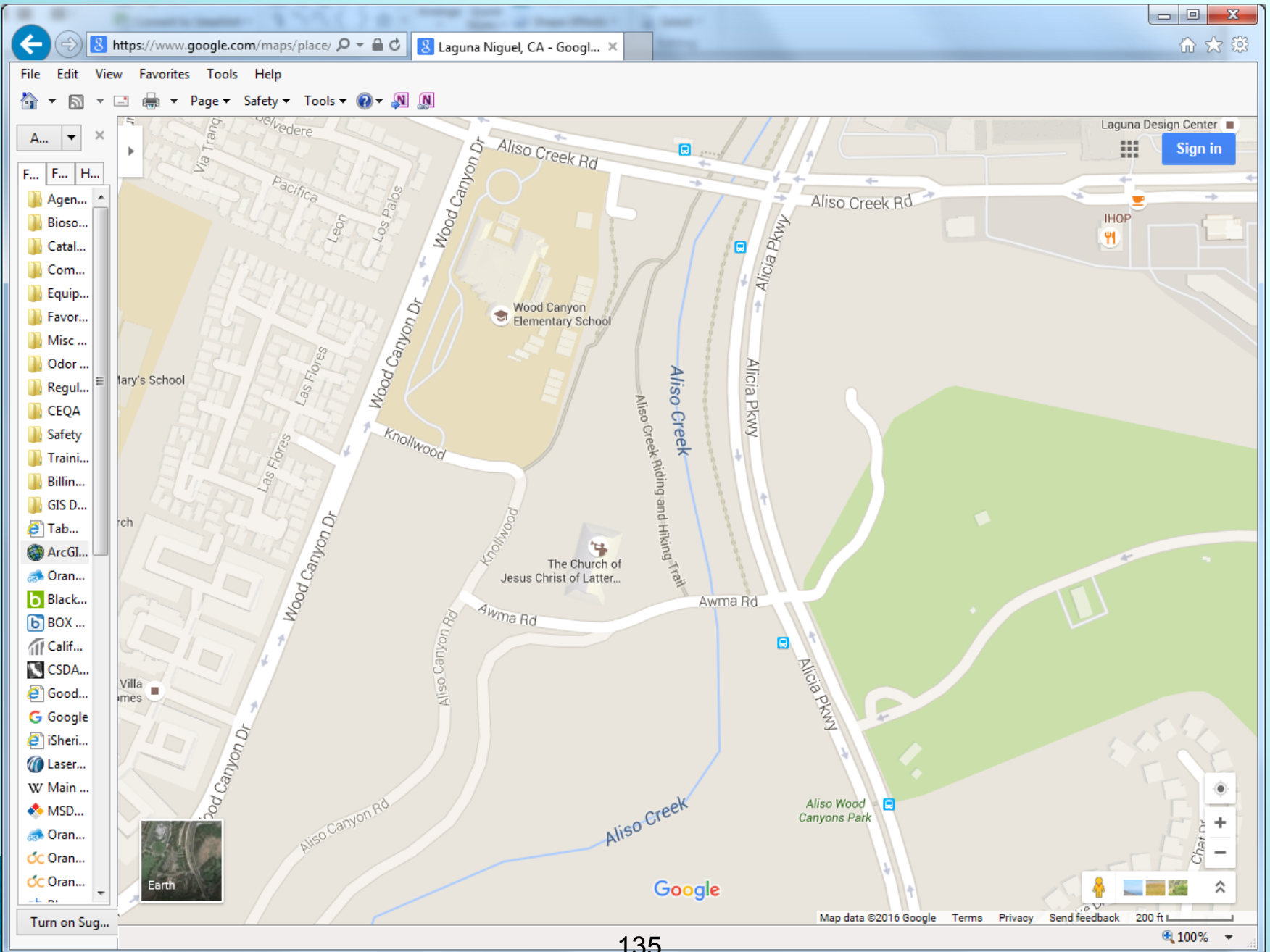
Betty C. Burnett, General Manager / Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

AWMA Bridge

February 26, 2016

AWMA Bridge and Vicinity





Closure Options

- ▶ Option 1 – Do nothing \$0 (maintain liability exposure)
- ▶ Option 2A – Temporary gated access for SOCWA and Church – no public
 - \$10,000 setup – construction and signage
 - \$2,000 per week for security guard
- ▶ Option 2A+2B – Permanent gated access for SOCWA and Church – no public
 - \$15,000 immediate temporary measures from Option 2A lasting for one month
 - \$45,000 for long-term permanent facilities

Closure Options (cont'd)

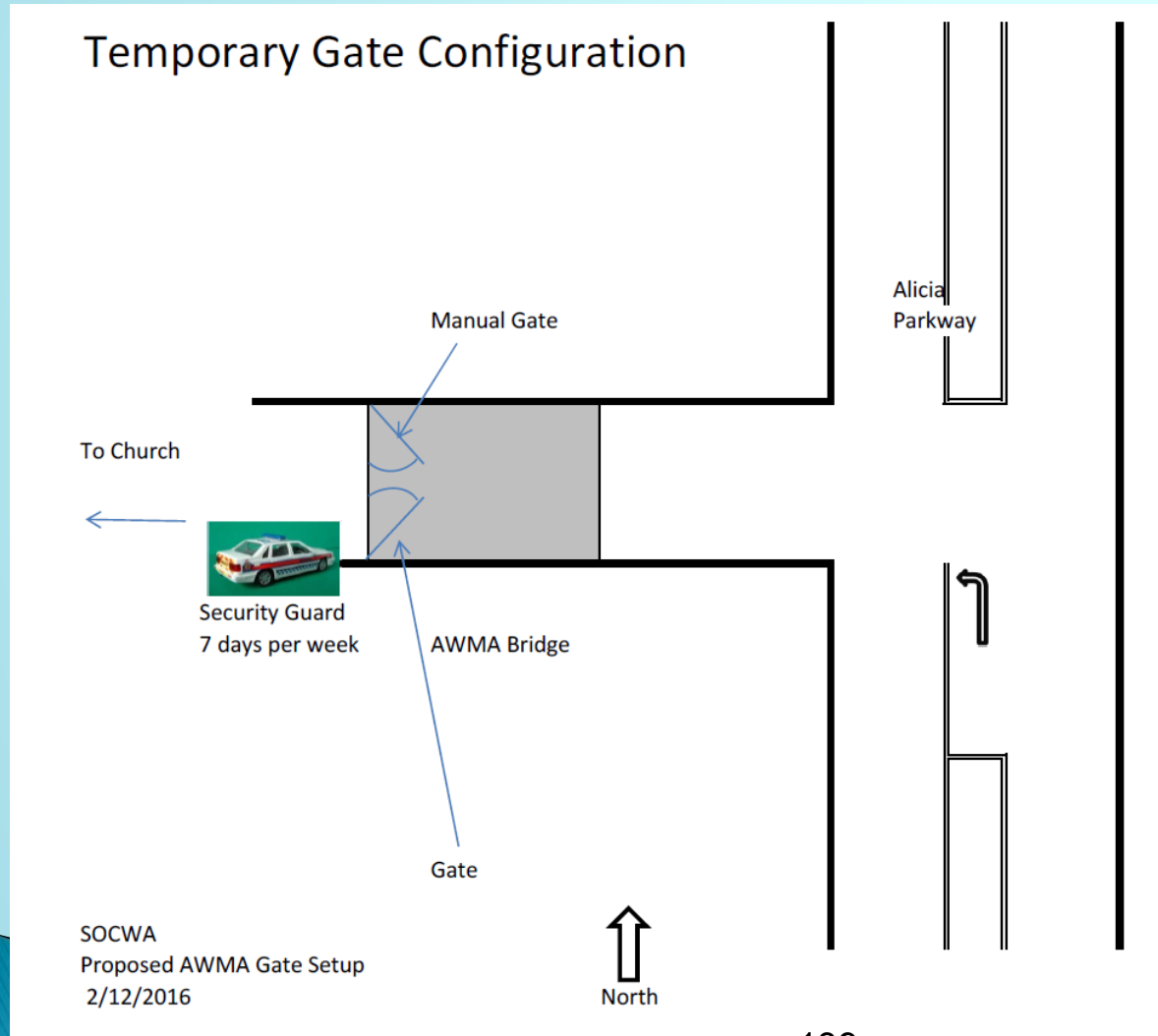
- ▶ Option 3A – Temporary full closure – no access
 - \$10,000 setup – construction and signage
- ▶ Option 3A+3B – Permanent full closure – no access
 - \$10,000 immediate temporary measures outlined in Option 3A
 - \$50,000 long-term permanent facilities and street modifications (includes approval processes with City to modify Alicia Parkway median)

Option 1 – Do nothing



One-way traffic only

Option 2A - Temporary Gate

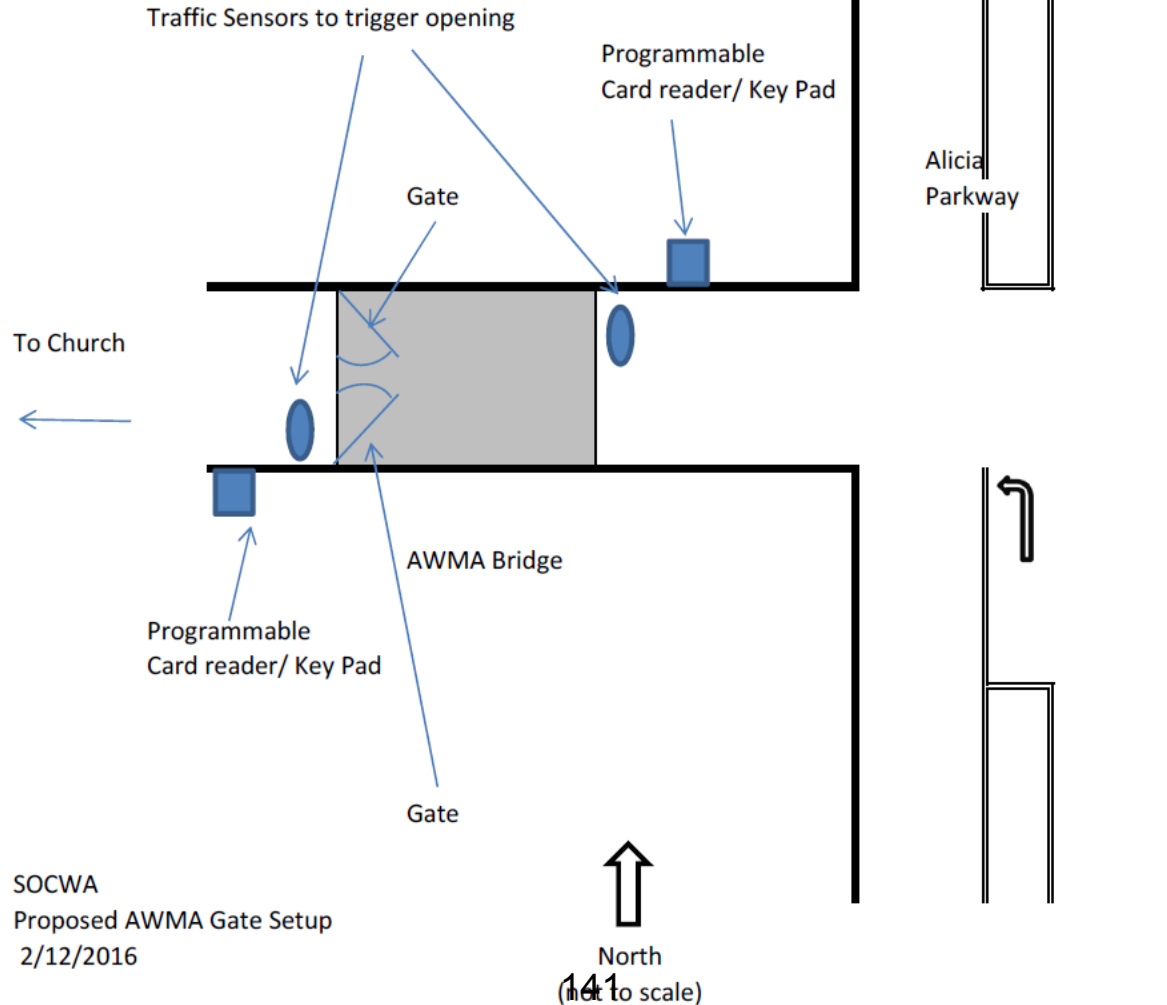


Option 2A - Temporary Gate



Option 2B – Permanent Gate

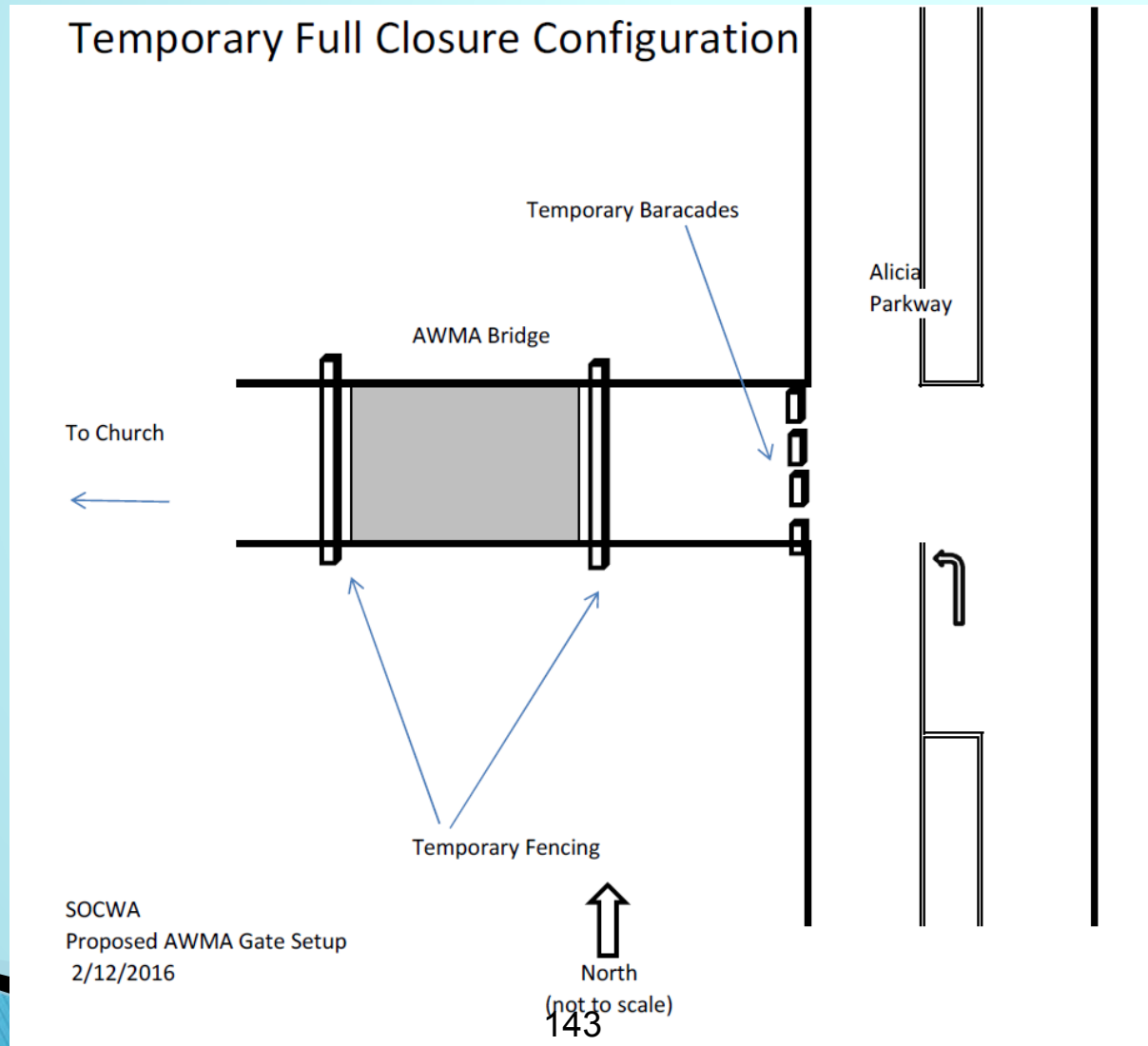
Permanent Gate Configuration



Option 2B – Permanent Gate



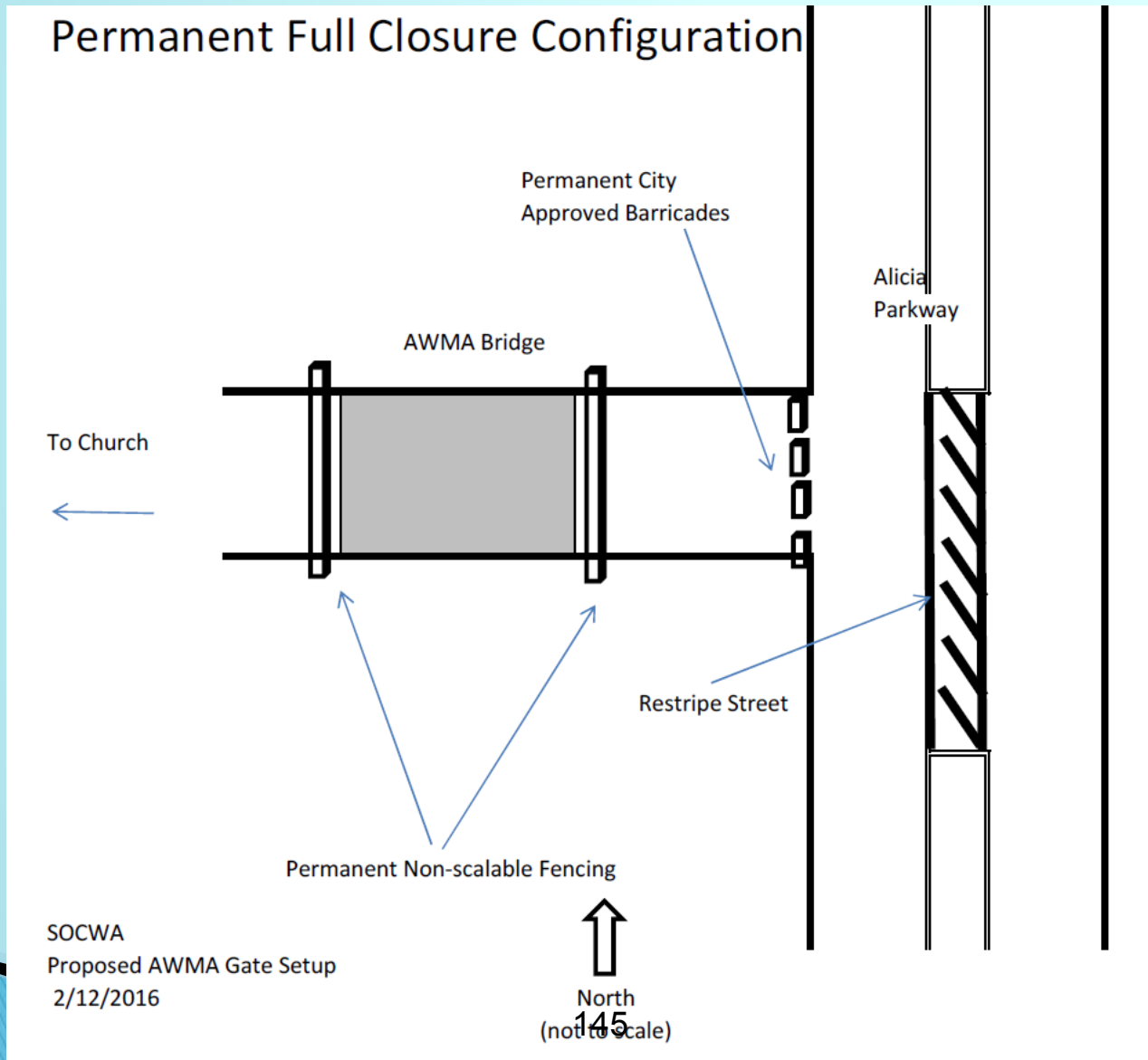
Option 3A - Temporary Full Closure



Option 3A – Temporary Full Closure



Option 3B – Permanent Full Closure



Option 3B – Permanent Full Closure



Recommendation

- ▶ Direct staff to proceed with Option 2A+2B
 - Access for SOCWA and Church
- ▶ Establish a budget of \$60,000

Agenda Item

Budgeted: Yes
Budget amount: \$8,611,233.00
Line Items: PC 15, Task 3534-000
Legal Counsel Review: No
Meeting Date: March 2, 2017

TO: Project Committee 15

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Change Order to Dudek Design and Environmental Services Contract for the Coastal Treatment Plant Export Sludge System Replacement Project

Recommendation

The Engineering Committee recommends that the Board of Directors approve Change Order 5 to the design and environmental services contract with Dudek for the Coastal Treatment Plant Export Sludge System Replacement Project.

Change Orders

1. Recommend Change Order 5 to the design and environmental services contract with Dudek for the Coastal Treatment Plant Export Sludge System Replacement Project (PC 15, Task 3534-000).

CO #	CO Item	Description	Change Order Price	Total Change Order Price	Status
5	Additional Environmental Review/Permitting Services	Additional services per Dudek amendment request dated November 8, 2016. Services include (i) Endangered Species consultation, (ii) continued 404 Nationwide Permit processing, (iii) Habitat and Monitoring Plan revisions and (iv) final review of CDP conditions.	\$53,550.00	\$100,900.00	SOCWA Engineering Committee Recommended

Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on February 9, 2017.

Financial Status

Original Contract Amount:	_____	\$	445,958.00
Net change by previous change orders:	_____	\$	47,400.00
Contract amount prior to this change order:	_____	\$	493,358.00
Net increase, decrease due to this change order:	_____	\$	53,550.00
New contract amount, including this change order:	_____	\$	546,900.00

The budgetary impact on Project Committee 15 Task 3534-000 is presented in Table 1. The overall project remains within budget.

**TABLE 1
PROJECT BUDGET STATUS
PROJECT COMMITTEE 15, TASK 3534-000
Thursday, February 09, 2017**

BUDGET (PC 15, TASK 3534-000) as of July 1, 2016	\$ 8,611,233.00
BUDGET (PC 15, TASK 3533-000) as of July 1, 2016*	\$ 75,000.00
TOTAL BUDGET EXPORT SLUDGE	\$ 8,686,233.00

FUNDS EXPENDED OR COMMITTED		
PHASES 1, 2 AND 3	1998 - 2000	\$1,013,291.66
ARROYO REPAIR	2000	\$12,486.78
ACES	2001 -2003	\$3,518.82
FORCE MAIN ALIGNMENT STUDY	2005 - 2007	\$109,616.66
ROAD ALIGNMENT STUDY	2008 -2010	\$82,029.12
EIR AND PRELIMINARY DESIGN REPORT	2010 - 2013	\$549,610.00
FORCE MAIN REPAIR	2010 - 2011	\$189,308.95
AWMA ROAD ACCESS BRIDGE	2010 - 2012	\$114,326.76
STREAMBED PROTECTION AND ANALYSIS	2008 - 2013	\$213,769.00
CEQA SUPPORT	2012 - 2013	\$28,311.00
EXPORT SLUDGE EQUALIZATION BASIN PRELIMINARY DESIGN	2012 - 2013	\$291,057.00
LEGAL	2010 - 2013	\$19,634.50
MISCELLANEOUS	2010 - 2013	\$34,970.04
	TOTAL	\$2,661,930.29

EXPORT SLUDGE EQUALIZATION DESIGN-BUILD PROJECT	
DESIGN-BUILD CONTRACT (Pascal & Ludwig)	\$3,687,469.96
Pascal & Ludwig Purchase Order for Handrailing	\$8,094.00
CONSTRUCTION SERVICES (Carollo)	\$169,825.00
TOTAL	\$3,865,388.96

EXPORT SLUDGE PIPELINE DESIGN AND PERMITTING PROJECT	
DESIGN PERMITTING CONTRACT	\$493,358.00
TOTAL REMAINING	\$61,351.56
TOTAL EXPENDED	\$432,006.44

ADDITIONAL EXPENDITURES (Surveying; Geotechnical; Road; Creek Evaluation)	\$185,000.00
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EXPENDITURES	\$7,205,677.25
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PROP 50 GRANT	\$2,824,700.05
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ORIGINAL BUDGET REMAINING	\$4,305,255.80
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BUDGET ADDITION IN FY '18/'19	\$500,000.00
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DUDEK CHANGE ORDER NO.5	\$53,500.00
EXPORT SLUDGE PIPE ENVIRON.	\$500,000.00
EXPORT SLUDGE PIPE CONST.	\$3,500,000.00
EXPORT SLUDGE PIPE CM SERVICES	\$350,000.00
EXPORT SLUDGE PIPE CONTINGENCY	\$340,404.24
TOTAL	\$4,805,255.80

NOTES:

* - Originally budgeted at \$125,620. Approximately \$75,000 remaining.

TOTAL BUDGET EXPORT SLUDGE (CURRENT)	\$8,686,233.00
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Agenda Item

Budgeted: Yes
Budget amount: \$1,717,040.00
Line Items: PC 15 Tasks 3501-000, 3502-000, 3505-000, 3506-000, 3531-000, 3515-000, 3516-000, and 3518-000
Legal Counsel Review: No
Meeting Date: March 2, 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 5 to the construction contract with Pascal & Ludwig for the Coastal Treatment Miscellaneous Improvements 2015 Project.

Change Orders

1. Recommend Change Order 5 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
5	Modifications to the Sodium Hypochlorite System.	Modifications to the NaOCl tank overflow and venting systems as recommended by the chemical delivery company.	\$8,133.00	\$27,341.00	SOCWA Engineering Committee Recommendation

* Cumulative change order cost for this task code only.

Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on February 9, 2017.

Financial Status

Original Contract Amount:	_____	\$	989,683.00
Net change by previous change orders:	_____	\$	65,457.00
Contract amount prior to this change order:	_____	\$	1,055,140.00
Net increase, decrease due to this change order:	_____	\$	8,133.00
New contract amount, including this change order:	_____	\$	1,063,273.00

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: \$12,720,000
Line Items: PC 17 Tasks 3720-000, 3715-000, 3721-000, and 3722-000
Legal Counsel Review: No
Meeting Date: March 2, 2017

TO: Project Committee 17

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Change Orders to Butier Engineering Construction Management Contract for the Regional Treatment Plant Cogeneration and Switchgear Upgrade Project

Recommendation

The Engineering Committee recommends that the Board of Directors approve Change Orders 4 and 5 to the construction management contract with Butier Engineering for the Regional Treatment Plant Cogeneration and Switchgear Upgrade Project.

Change Orders

1. Recommend Change Order 4 to the construction management contract for the Switchgear Upgrade (PC 17, Task 3715-000).

CO #	CO Item	Description	Change Order Price	Cumulative Change Order	Status
4	Extension of Construction Contract Duration	Change Order 4 provides extended construction management services based on anticipated project completion in August, 2017.	\$124,022.50	\$314,722.50	SOCWA Engineering Committee Recommended

* Total change order price associated with that specific task code.

2. Recommend Change Order 5 to the construction management contract for the Cogeneration System Upgrade (PC 17, Task 3722-000).

CO #	CO Item	Description	Change Order Price	Cumulative Change Order	Status
5	Extension of Construction Contract Duration	Change Order 5 provides extended construction management services based on anticipated project completion in August, 2017.	\$124,022.50	\$159,422.50	SOCWA Engineering Committee Recommended

* Total change order price associated with that specific task code.

Advisory Status

Reviewed and recommended by the SOCWA Engineering Committee on February 9, 2017.

Financial Status

Original Contract Amount:	_____	\$	293,580.00
Net change by previous change orders:	_____	\$	226,100.00
Contract amount prior to this change order:	_____	\$	519,680.00
Net increase, decrease due to this change order:	_____	\$	248,045.00
New contract amount, including this change order:	_____	\$	767,725.00

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

Task	3715-000	3722-000	Total
El Toro Water District	\$12,724.71	\$25,312.99	\$38,037.70
Emerald Bay Service District	\$409.27	\$731.73	\$1,141.01
City of Laguna Beach	\$7,776.21	\$13,915.32	\$21,691.54
Moulton Niguel Water District	\$96,898.78	\$72,950.03	\$169,848.81
South Coast Water District	\$6,213.53	\$11,112.42	\$17,325.94
Total	\$124,022.50	\$124,022.50	\$248,045.00

Exhibit 1
 Project Cost Ledger: Regional Treatment Plant
 Cogeneration and Switchgear Upgrades w/Butier Amendment No.2
 (Millions)

	Switchgear Upgrade	Underground Piping Relocation	Digester Recoating	Co-Generation Upgrade	Total
Budget (2016/17)	3.475	0.636	1.024	7.585	12.720
Budget Task Codes	3715-000	3721-000	3720-000	3722-000	
<u>Actual Bid Costs-Constr.</u>	1.930	0.156	0.316	6.520	8.922
<u>Construction Change Orders</u>	0.407	0.000	0.000	-0.002	0.405
<u>Previous Costs (Prior Construct and Design)</u>	0.365	0.292	0.621	0.443	1.721
Contingency	0.025	0.148	0.057	0.146	0.376
Construction Management	0.094	0.007	0.030	0.162	0.294
Construction Management Change Order No.1	0.191	0.000	0.000	0.035	0.226
Construction Management Change Order No.2	0.124	0.000	0.000	0.124	0.248
Construction Services	0.110	0.033	0.000	0.156	0.298
Construction Services Change Order	0.080	0.000	0.000	0.000	0.080
Southern California Edison (SCE)	0.150	0.000	0.000	0.000	0.150
Total Project Costs	3.475	0.636	1.024	7.585	12.720
<u>Spending</u>					
Total Current Spending	(1.900)	(0.470)	(0.960)	(6.100)	(9.430)
Remaining Spending	(1.575)	(0.166)	(0.064)	(1.485)	(3.290)
Remaining Budget	1.575	0.166	0.064	1.485	3.290
*Grants				1.700	1.700
Net SOCWA Costs	3.475	0.636	1.024	5.885	11.020

Agenda Item

Meeting Date: March 2, 2017

TO: Project Committees 15 and 21 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Award of Emergency Services Environmental Services for Aliso Canyon Storm Damage Repair

Summary

This agenda item provides a recommendation for the award of an engineering services contract to Dudek for the environmental evaluation and permitting assistance related to roads and treatment plant infrastructure in Aliso Canyon. This item was reviewed during a presentation regarding storm damages at the February 2, 2017, SOCWA Board of Directors Meeting.

Discussion

The storm event of January 20 through January 23, 2017, resulted in damages to the Aliso Creek embankments at five separate locations within Aliso Canyon. Two of these locations are on the west side of Aliso Creek posing a threat to the paved road that provides access to the Coastal Treatment Plant. Two of the locations are on the east side of Aliso Creek eroding the surface of the dirt road. The dirt road is used by SOCWA staff to provide periodic inspections of the route of the Export Sludge pipelines as well as to provide service on the air vacuum relief valves on the Effluent Transmission Main (ETM). The fifth site is along the east side of Aliso Creek at the Coastal Treatment Plant itself. The exposed area is between the access bridge and the southwest corner of the plant property. The impact of the storm was to further erode beneath the storm water channel as well as undermining the plant's perimeter fence.

Dudek was retained on an emergency basis to provide assistance with CEQA compliance, wetlands resource agency permitting, Coastal development permitting, OC Parks Permit coordination, and biological monitoring for the repair work. Dudek was selected for this work based on their long history of work on Aliso Creek. A copy of the Dudek proposal is attached with this agenda item. The proposed Dudek fee is \$94,150.

The goal for the emergency repair is to obtain emergency permits, to retain a general contractor and to begin the emergency repairs in March, 2017.

Advisory Committee Review

This item was reviewed with the Engineering Committee on February 9, 2017.

Fiscal Impact

The cost associated with the two sites on the west side of Aliso Creek and the Coastal Treatment are allocated solely to Project Committee 15. The cost associated with the dirt road on the east side of Aliso Creek is split evenly between Project Committees 15 and 21. The allocation of the project cost to the member agencies is presented in Table 1. The allocation of cost to each site is based on the percentage of construction cost estimated by TetraTech.

TABLE 1 - ALLOCATION OF COST TO MEMBER AGENCY

Site Location	PC	Environmental	ETWD	EBSD	IRWD	CLB	MNWD	SCWD
West Side Site 1	15	\$10,975	\$0	\$328	\$0	\$4,160	\$3,210	\$3,276
West Side Site 2	15	\$16,366	\$0	\$489	\$0	\$6,204	\$4,787	\$4,885
East Side Site 1	15/21	\$18,676	\$2,334	\$279	\$2,334	\$3,540	\$7,400	\$2,787
East Side Site 2	15/21	\$19,446	\$2,431	\$291	\$2,431	\$3,686	\$7,706	\$2,902
East Side Site 3 CTP	15	\$28,688	\$0	\$858	\$0	\$10,876	\$8,391	\$8,563
Total		\$94,150	\$4,765	\$2,245	\$4,765	\$28,466	\$31,494	\$22,414

Recommendation

The following action is recommended:

Ratify the decision of the General Manager of awarding an environmental services contract to Dudek at a fee of \$94,150.00.

February 8, 2017

Brian Peck
South Orange County Wastewater Authority
Director of Engineering
34156 Del Obispo Street
Dana Point, California 92629

Subject: Proposal for Environmental and Engineering Consulting Services, Emergency Aliso Creek Road and Coastal Treatment Plant Embankment Repairs Project, County of Orange, California

Dear Brian:

Per your request, Dudek has prepared a scope of work and cost estimate for environmental and engineering consulting services in support of the Emergency Aliso Creek Road and Coastal Treatment Plant Embankment Repairs Project. The scope of work and cost estimate to provide wetlands regulatory and coastal permitting services as well as OC Parks permitting and biological monitoring services during construction is provided below.

PROJECT UNDERSTANDING

Between January 18 and January 24, 2017, a series of winter storm events occurred over southern California causing considerable embankment damages along Lower Aliso Creek within the Aliso and Wood Canyons Wilderness Park. Flow data analyzed by Tetra Tech suggested that Aliso Creek witnessed a “greater than a 100-year event” resulting in damage to the paved access road on the west side of Aliso Creek and the maintained dirt road on the east side of the creek leading to the South Orange County Wastewater Authority’s (SOCWA’s) Coastal Treatment Plant (CTP). Erosional damage was also observed at the confluence of a concrete-lined brow ditch with Aliso Creek on the grounds of the CTP. It is SOCWA’s intent to conduct an emergency project to repair the erosional damage at five geographically distinct locations along Lower Aliso Creek in order to restore safe access to SOCWA’s CTP.

We expect the project would qualify as an emergency exemption under Section 15269 of the California Environmental Quality Act (CEQA) Guidelines for Statutory Exemptions. “‘Emergency’ means a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to, life, health, property, or essential public services. ‘Emergency’ includes such occurrences as fire, flood, earthquake, or

Mr. Brian Peck

Subject: Proposal for Environmental and Engineering Consulting Services, Emergency Aliso Creek Road and Coastal Treatment Plant Embankment Repairs Project, County of Orange, California

other soil or geologic movements, as well as such occurrences as riot, accident, or sabotage.” Applicable sections of the CEQA Guidelines are provided below:

15269 (b) Emergency repairs to publicly or privately owned service facilities necessary to maintain service essential to the public health, safety or welfare.

15269 (c) Specific actions necessary to prevent or mitigate an emergency. This does not include long-term projects undertaken for the purpose of preventing or mitigating a situation that has a low probability of occurrence in the short-term.

Based on our understanding of SOCWA’s immediate needs, Dudek proposes to provide the following scope of services to facilitate the erosional damage repairs under an assumed and resource agency agreed-upon emergency situation: (1) prepare a Statutory Exemption in accordance with CEQA; (2) prepare, file, and process emergency wetlands permit applications with the appropriate resource agency personnel; (3) research, prepare, file, and process the appropriate Coastal Development Permit (CDP) with California Coastal Commission and/or County of Orange (County) staff; (4) file and obtain on behalf of SOCWA an encroachment permit from the County to complete the emergency repair work; and (5) provide daily biological monitoring throughout an assumed 30-day construction period to enforce the terms and conditions of the regulatory permits acquired for the emergency work.

Task 1 CEQA Compliance

Dudek understands that SOCWA would like our assistance to prepare and process a CEQA Statutory Exemption for the proposed emergency repairs that are needed to restore safe road access to the CTP. As stated above, the CEQA Guidelines provide Statute 15269, Emergency Projects, which applies to emergency repairs to publicly or privately owned service facilities necessary to maintain service essential to the public health, safety or welfare. Dudek understands that the emergency repairs would qualify because they are needed immediately to prevent or mitigate damage to the access road, an essential public service, and the CTP, critical infrastructure.

A notice of exemption may be prepared and filed if desired by SOCWA, though one is not legally required. If a notice of exemption is filed, a 35-day statute of limitations will begin on the day the project is approved. If a notice is not filed, a 180-day statute of limitations will apply. Dudek assumes that if filed, SOCWA will cover the cost of the filing fees.

A NOE must contain the following items:

Mr. Brian Peck

Subject: Proposal for Environmental and Engineering Consulting Services, Emergency Aliso Creek Road and Coastal Treatment Plant Embankment Repairs Project, County of Orange, California

- a brief project description
- a finding that the project is exempt from CEQA, including a citation to the relevant statute or guidelines section
- a brief statement of reasons to support the findings

Estimated Labor Cost.....\$2,500.00

Task 2 Wetlands Resource Agency Permitting

Section 404 Regional General Permit 63 – Emergency Authorization. Because this project has the potential to adversely affect public health and property, we are confident that the proposed repair work qualifies for emergency authorization under Regional General Permit (RGP) 63. RGP 63 permits the discharge of dredge or fill material into waters of the U.S., including wetlands, for the necessary repair of existing structures within aquatic resources under the jurisdiction of the U.S. Army Corps of Engineers (USACE). Per USACE direction, an emergency situation is “present where there is a clear, sudden, unexpected, and imminent threat to life or property demanding immediate action to prevent or mitigate the loss of, or damage to, life, health, property, or essential public services.” It is assumed for the purposes of this scope of work that the USACE will not contest the use of RGP 63 for the repair work in question and as such a Nationwide Permit or Individual Permit will not be required.

Under this task, Dudek will prepare a request for authorization under RGP 63 in accordance with Section 404 of the federal Clean Water Act. This authorization request will include the following information as required by the terms and conditions of RGP 63: the name, address, and telephone number of the applicant and the designated point of contact; the project location with associated regional and vicinity exhibits; a brief, but clear and descriptive discussion of the imminent threat to life or property; the project’s purpose and need; a description of the construction methods, including anticipated equipment use, work duration, and dimensions of the work area; a description of the existing environmental setting; a discussion of the proposed impacts and restoration proposal; and plans, drawings, or sketches showing the proposed work area and cross sections showing construction details, if available. Dudek will follow up with the USACE following application submittal and will attend up to one field visit to review the repair sites, if necessary. In accordance with the notification procedures of RGP 63, the USACE must be notified in advance of the repair work and no work shall be initiated until USACE authorization has been issued.

Mr. Brian Peck

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It is important to note that given the emergency status of the repair work, Dudek will rely on previous vegetation mapping data in the area to define the baseline environmental setting and to determine project impacts and will not conduct an additional site visit relative to this emergency work, with the exception of Site East 3 just downstream of the CTP. This site is located just outside of previously mapped areas and as such has no vegetation mapping characterization associated with it. Mapping of this site will be accomplished using aerial photograph interpretation coupled with a review of recent (2017) site photos.

Section 401 Water Quality Certification. The State Water Resources Control Board issued a technically-conditioned 401 Certification for RGP 63 on November 25, 2013. Provided the USACE agrees with SOCWA's assessment that the repair work in question is an emergency, no further permits or authorizations from the Regional Water Quality Control Board (RWQCB) will be required. However, the RWQCB requires 48-hour notification prior to commencing the emergency work. Under this task, Dudek will prepare and submit to the RWQCB the required 48-hour notification along with a required \$720.00 review and processing fee. Dudek will follow up with the RWQCB following application submittal and will attend up to one field visit to review existing conditions, if necessary.

Section 1610 Notification of Emergency Repair Work. The California Department of Fish and Wildlife (CDFW) requires written notification within 14 days following the start of emergency repair work, provided the activity in question meets the definition of an "emergency" situation. The CDFW's definition of an "emergency" is identical to that of the USACE and RWQCB in that the proposed repair work must be necessary to protect life, property, or public service facilities. Under this task, Dudek will prepare and submit for CDFW review the emergency project application form and required exhibits within 14 days following the start of construction. Dudek will follow up with the CDFW following application submittal and will attend up to one field visit to review existing conditions, if necessary. Please note CDFW does not require a filing fee with the emergency notification.

U.S. Fish and Wildlife Service (USFWS) Coordination. The proposed repair work is located in a portion of Aliso Creek where the state and federally-listed endangered least Bell's vireo (*Vireo bellii pusillus*) has been documented in recent years. Many of the repair areas are also adjacent to habitat frequented by the federally-listed threatened California gnatcatcher (*Poliophtila californica californica*). Since construction will occur during the breeding season for least Bell's vireo (April 10–July 31) and California gnatcatcher (generally mid-February through August), the project could have an adverse effect on the least Bell's vireo and California gnatcatcher. At a minimum, informal consultation will need to be initiated between the USACE and the USFWS to confirm that these species will not be jeopardized by the proposed repair

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work. Under this task, Dudek will provide up to 40 hours of as-needed coordination with the USACE and USFWS to address any questions that may arise relative to the least Bell's vireo and California gnatcatcher and to ensure they have all of the information they need to make a "no effect" finding. It is assumed for the purposes of this scope of work that a formal Section 7 Consultation will be avoided. No meetings associated with this sub-task are anticipated.

Dudek can prepare and submit applications to the resource agencies approximately 1–2 weeks following contract initiation.

Estimated Labor Cost.....\$16,950.00

Task 3 Coastal Development Permitting

Permit Jurisdiction Research and Coastal Commission and County Coordination

The project(s) are located the Aliso and Wood Canyons Wilderness Park within the Coastal Zone and may cross the County's permit jurisdiction as well California Coastal Commission's (CCC) original permit jurisdiction and may be appealable to the CCC as a public works project. Upon review of available project materials and environmental information, Dudek will coordinate with SOCWA, County personnel and CCC staff to confirm coastal development permit jurisdiction for the project(s) and to confirm whether all or a portion of the proposed work will qualify for an emergency permit and will advise SOCWA on the best available options for preparing the coastal development permit/emergency coastal development permit application materials in order to expediting the review and approval process with the CCC and/or County. In the event that CCC or County staff expresses concerns regarding processing emergency Coastal Development Permits (CDPs) for the project(s), Dudek will advise SOCWA on additional coastal development permit review options to avoid potential undue delays during permitting. However, even for emergency permit applications, regular follow-up CDPs are required. Therefore, this scope assumes a regular CDP process as well for any emergency CDP approved.

Dudek review permit jurisdiction and will provide an evaluation of the proposed projects' consistency with the applicable policies of the applicable LCP and/or Coastal Act for the project components traversing areas of original CCC permit jurisdiction Dudek intends to use available project and environmental information, to review all aspects of the project and its relationship to the LCP and Coastal Act to evaluate the project's potential consistency/inconsistency with applicable coastal policies. As appropriate, project description clarifications, mitigation measures and/or development standards will be recommended for incorporation into the coastal development permit application to thoroughly address potential project impacts to coastal land

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uses and resources, and to demonstrate the project’s consistency with applicable coastal resource protection policies.

Preparation of CDP/Emergency CDP Application(s)

Dudek will assist the project team with preparing the CDP/Emergency CDP application(s), including compiling all applicable project and environmental documentation for the application submittal package(s):

- CDP Application(s)/Emergency CDP Application(s);
- Submittal letter to the CCC detailing CDP application submittal requirements and compliance of the project submittal;
- Project Alternatives Analysis Summary; and,
- Coastal Act/LCP policy consistency analysis for the proposed project(s).

This scope of work assumes no more than two (2) 30-day coastal development permit application “completeness” review cycles will be required and that material responses will be supported by existing and/or supplemental information provided by the team. Given the uncertainty of additional application materials and issues raised by CCC/County staff following the first 30-day application review cycle and the extent of supplemental project materials that may be required to respond to this review, the need for a supplemental scope of work authorization may be necessary at that time.

This scope of work assumes that Dudek’s coastal planner/s will prepare for and attend two (2) meetings with SOCWA and CCC/County staff, and participate, via conference call, in three (3) additional meetings to resolve any potential policy or procedural issues that may arise during the CCC/County’s CDP review process. Dudek will support SOCWA in reviewing and responding to staff reports/recommendations and written correspondence associated with the decision-making hearing and will attend any Southern or Central California public hearing.

Estimated Labor Cost.....\$32,675.00

Task 4 As-Needed Engineering Assistance and OC Parks Permit Coordination

OC Parks Access Permitting and Coordination

Dudek has reviewed OC Parks application for construction and encroachment permits required for the planned emergency repairs. The permit application fee is \$200 to initiate the process, with additional fees, surety, bonds, insurance, and/or other items required prior to permit

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issuance. Dudek will coordinate with OC Parks, including preparation of the Letter of Interest, submittal of required plans and work descriptions (signed and stamped by RCE) and required NPDES compliance documentation. SOCWA will be responsible for fees associated with permit application and inspection. Dudek will conduct coordination meetings with OC Parks staff to review permitting issues, as necessary. Dudek will be the main point of contact for OC Parks during the design process and will keep SOCWA and the emergency repair team informed throughout the permit process.

Project Management, Meetings, Data Support, and Contract Administration

Under this task, Dudek Engineering staff will provide up to 20 hours of as-needed project management and engineering support through the duration of the contract including the attendance at meetings at SOCWA’s discretion, review of engineering plans, file sharing/data transfers to members of the emergency repair team, as needed, and any additional issues that may arise during the permit processing and acquisition phase.

Estimated Labor Cost.....\$11,000.00

Task 5 Biological Monitoring

Dudek will coordinate and schedule compliance monitoring requirements to ensure adjacent sensitive habitats are not disturbed during repair of the five erosional damage areas and to enforce the terms and conditions of the emergency resource agency permits acquired for the project. Construction is expected to last 30 working days beginning sometime in March 2017.

Under this task, Dudek biologists will be present daily throughout the assumed 30-day construction period to ensure all biological mitigation measures are in place and are being carried out by the contractor, as required, and to verify that additional impacts have not occurred to adjacent sensitive habitats associated with Aliso Creek. For budget development purposes, it is assumed that the biological monitors assigned to provide daily biological monitoring will not be required to hold Section 10(a)(1)(a) recovery permits for California gnatcatcher and least Bell’s vireo. Biologists will be present for up to eight hours per day, five days a week, for 30 business days. Following construction Dudek will prepare a brief, final project summary report to document work completion, any issues encountered during construction, how the issues were resolved in the field, and an overall discussion of the contractor’s compliance with the resource agency permits.

Estimated Labor Cost.....\$26,400.00

Mr. Brian Peck

Subject: Proposal for Environmental and Engineering Consulting Services, Emergency Aliso Creek Road and Coastal Treatment Plant Embankment Repairs Project, County of Orange, California

COST SUMMARY

All work will be billed monthly on a time-and-material basis according to Dudek's 2017 standard schedule of charges (attached) with a cost not to exceed the total estimate outlined in this proposal. A summary of the costs by required task is provided below in Table 1.

Table 1
Summary of Costs by Task

Task	Fee
Task 1 - CEQA Compliance	\$2,500
Task 2 - Wetlands Resource Agency Permitting	\$16,950
Task 3 - Coastal Development Permitting	\$32,675
Task 4 - As-Needed Engineering Assistance and OC Parks Permit Coordination	\$11,000
Task 5 - Biological Monitoring	\$26,400
	<i>Subtotal Labor</i>
	\$89,525
Direct Costs (at cost plus 15%)	\$4,625
	Total
	\$94,150

* Direct costs include deliveries, photocopies, resource agency permit filing fees (excluding OC Parks encroachment permit fees), lodging, meals, and mileage. Direct costs are billed at cost plus 15%.

Thank you again for the opportunity to provide a proposal for this work. If you have any questions regarding the details of the services outlined herein please do not hesitate to call me at 760.479.4295 or via email at twotipka@dudek.com.

Sincerely,



Tricia Wotipka
Senior Biologist/Project Manager

att.: 2017 Schedule of Charges

DUDEK
2017 STANDARD SCHEDULE OF CHARGES

ENGINEERING SERVICES

Project Director.....	\$270.00/hr
Principal Engineer III.....	\$240.00/hr
Principal Engineer II.....	\$230.00/hr
Principal Engineer I.....	\$220.00/hr
Program Manager.....	\$210.00/hr
Senior Project Manager.....	\$210.00/hr
Project Manager.....	\$205.00/hr
Senior Engineer III.....	\$200.00/hr
Senior Engineer II.....	\$190.00/hr
Senior Engineer I.....	\$180.00/hr
Project Engineer IV/Technician IV.....	\$170.00/hr
Project Engineer III/Technician III.....	\$160.00/hr
Project Engineer II/Technician II.....	\$145.00/hr
Project Engineer I/Technician I.....	\$130.00/hr
Project Coordinator.....	\$100.00/hr
Engineering Assistant.....	\$95.00/hr

ENVIRONMENTAL SERVICES

Principal.....	\$240.00/hr
Senior Project Manager/Specialist II.....	\$225.00/hr
Senior Project Manager/Specialist I.....	\$215.00/hr
Environmental Specialist/Planner VI.....	\$195.00/hr
Environmental Specialist/Planner V.....	\$175.00/hr
Environmental Specialist/Planner IV.....	\$165.00/hr
Environmental Specialist/Planner III.....	\$155.00/hr
Environmental Specialist/Planner II.....	\$140.00/hr
Environmental Specialist/Planner I.....	\$125.00/hr
Analyst III.....	\$115.00/hr
Analyst II.....	\$105.00/hr
Analyst I.....	\$95.00/hr
Planning Assistant II.....	\$85.00/hr
Planning Assistant I.....	\$75.00/hr

COASTAL PLANNING/POLICY SERVICES

Senior Project Manager/Coastal Planner II.....	\$220.00/hr
Senior Project Manager/Coastal Planner I.....	\$210.00/hr
Environmental Specialist/Coastal Planner VI.....	\$200.00/hr
Environmental Specialist/Coastal Planner V.....	\$180.00/hr
Environmental Specialist/Coastal Planner IV.....	\$170.00/hr
Environmental Specialist/Coastal Planner III.....	\$160.00/hr
Environmental Specialist/Coastal Planner II.....	\$150.00/hr
Environmental Specialist/Coastal Planner I.....	\$140.00/hr

CULTURAL AND PALEONTOLOGICAL SERVICES

Senior Project Manager/Archaeologist II.....	\$215.00/hr
Senior Project Manager/Archaeologist I.....	\$205.00/hr
Environmental Specialist/Archaeologist V.....	\$185.00/hr
Environmental Specialist/Archaeologist IV.....	\$165.00/hr
Environmental Specialist/Archaeologist III.....	\$145.00/hr
Environmental Specialist/Archaeologist II.....	\$135.00/hr
Environmental Specialist/Archaeologist I.....	\$125.00/hr
Environmental Specialist/Architectural Historian II.....	\$150.00/hr
Environmental Specialist/Architectural Historian I.....	\$125.00/hr
Environmental Specialist/Paleontologist II.....	\$165.00/hr
Environmental Specialist/Paleontologist I.....	\$125.00/hr
Paleontological Technician III.....	\$85.00/hr
Paleontological Technician II.....	\$75.00/hr
Paleontological Technician I.....	\$55.00/hr
Cultural Resources Technician II.....	\$75.00/hr
Cultural Resources Technician I.....	\$55.00/hr

CONSTRUCTION MANAGEMENT SERVICES

Principal/Manager.....	\$195.00/hr
Senior Construction Manager.....	\$180.00/hr
Senior Project Manager.....	\$160.00/hr
Construction Manager.....	\$150.00/hr
Project Manager.....	\$140.00/hr
Resident Engineer.....	\$140.00/hr
Construction Engineer.....	\$135.00/hr
On-site Owner's Representative.....	\$130.00/hr
Construction Inspector III.....	\$125.00/hr
Construction Inspector II.....	\$115.00/hr
Construction Inspector I.....	\$105.00/hr
Prevailing Wage Inspector.....	\$135.00/hr

COMPLIANCE SERVICES

Compliance Director.....	\$205.00/hr
Compliance Manager.....	\$145.00/hr
Compliance Project Coordinator.....	\$105.00/hr
Compliance Monitor.....	\$95.00/hr

HYDROGEOLOGICAL SERVICES

Principal.....	\$260.00/hr
Principal Hydrogeologist/Engineer.....	\$240.00/hr
Sr. Hydrogeologist IV/Engineer IV.....	\$225.00/hr
Sr. Hydrogeologist III/Engineer III.....	\$210.00/hr
Sr. Hydrogeologist II/Engineer II.....	\$195.00/hr
Sr. Hydrogeologist I/Engineer I.....	\$180.00/hr
Hydrogeologist VI/Engineer VI.....	\$160.00/hr
Hydrogeologist V/Engineer V.....	\$150.00/hr
Hydrogeologist IV/Engineer IV.....	\$140.00/hr
Hydrogeologist III/Engineer III.....	\$130.00/hr
Hydrogeologist II/Engineer II.....	\$120.00/hr
Hydrogeologist I/Engineer I.....	\$110.00/hr
Technician.....	\$100.00/hr

DISTRICT MANAGEMENT & OPERATIONS

District General Manager.....	\$185.00/hr
District Engineer.....	\$175.00/hr
Operations Manager.....	\$150.00/hr
District Secretary/Accountant.....	\$100.00/hr
Collections System Manager.....	\$100.00/hr
Grade V Operator.....	\$100.00/hr
Grade IV Operator.....	\$90.00/hr
Grade III Operator.....	\$85.00/hr
Grade II Operator.....	\$63.00/hr
Grade I Operator.....	\$55.00/hr
Operator in Training.....	\$40.00/hr
Collection Maintenance Worker II.....	\$60.00/hr
Collection Maintenance Worker I.....	\$45.00/hr

OFFICE SERVICES

Technical/Drafting/CADD Services

3D Graphic Artist.....	\$160.00/hr
Senior Designer.....	\$150.00/hr
Designer.....	\$140.00/hr
Assistant Designer.....	\$135.00/hr
GIS Programmer I.....	\$180.00/hr
GIS Specialist IV.....	\$155.00/hr
GIS Specialist III.....	\$145.00/hr
GIS Specialist II.....	\$135.00/hr
GIS Specialist I.....	\$125.00/hr
CADD Operator III.....	\$130.00/hr
CADD Operator II.....	\$125.00/hr
CADD Operator I.....	\$110.00/hr
CADD Drafter.....	\$100.00/hr
CADD Technician.....	\$95.00/hr

SUPPORT SERVICES

Technical Editor III.....	\$145.00/hr
Technical Editor II.....	\$130.00/hr
Technical Editor I.....	\$115.00/hr
Publications Specialist III.....	\$105.00/hr
Publications Specialist II.....	\$95.00/hr
Publications Specialist I.....	\$85.00/hr
Clerical Administration II.....	\$90.00/hr
Clerical Administration I.....	\$85.00/hr

Forensic Engineering – Court appearances, depositions, and interrogatories as expert witness will be billed at 2.00 times normal rates.

Emergency and Holidays – Minimum charge of two hours will be billed at 1.75 times the normal rate.

Material and Outside Services – Subcontractors, rental of special equipment, special reproductions and blueprinting, outside data processing and computer services, etc., are charged at 1.15 times the direct cost.

Travel Expenses – Mileage at current IRS allowable rates. Per diem where overnight stay is involved is charged at cost.

Invoices, Late Charges – All fees will be billed to Client monthly and shall be due and payable upon receipt. Invoices are delinquent if not paid within 30 days from the date of the invoice. Client agrees to pay a monthly late charge equal to 1% per month of the outstanding balance until paid in full.

Annual Increases – Unless identified otherwise, these standard rates will increase 3% annually.

Agenda Item

Meeting Date: March 2, 2017

TO: Project Committees 15 and 21 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Brian Peck, Director of Engineering

SUBJECT: Award of Emergency Services Engineering Services for Aliso Canyon Storm Damage Repair

Summary

This agenda item provides a recommendation for the award of an engineering services contract to TetraTech for the evaluation of damages and the design of repairs related to roads and treatment plant infrastructure in Aliso Canyon. This item was reviewed during a presentation regarding storm damages at the February 2, 2017, SOCWA Board of Directors Meeting.

Discussion

The storm event of January 20 through January 23, 2017, resulted in damages to the Aliso Creek embankments at five separate locations within Aliso Canyon. Two of these locations are on the west side of Aliso Creek posing a threat to the paved road that provides access to the Coastal Treatment Plant. Two of the locations are on the east side of Aliso Creek eroding the surface of the dirt road. The dirt road is used by SOCWA staff to provide periodic inspections of the route of the Export Sludge pipelines as well as to provide service on the air vacuum relief valves on the Effluent Transmission Main (ETM). The fifth site is along the east side of Aliso Creek at the Coastal Treatment Plant itself. The exposed area is between the access bridge and the southwest corner of the plant property. The impact of the storm was to further erode beneath the storm water channel as well as undermining the plant's perimeter fence.

TetraTech was retained on an emergency basis to provide assistance with the evaluation, design, and procurement of contractor services for the repair work. TetraTech was selected for this work based on their long history of work on Aliso Creek as well as their experience in designing similar repairs. A copy of the TetraTech proposal is attached with this agenda item. The proposed TetraTech fee is \$140,000.

The goal for the emergency repair is to obtain emergency permits, to retain a general contractor and to begin the emergency repairs in March, 2017.

Advisory Committee Review

This item was reviewed with the Engineering Committee on February 9, 2017.

Fiscal Impact

The cost associated with the two sites on the west side of Aliso Creek and the Coastal Treatment are allocated solely to Project Committee 15. The cost associated with the dirt road on the east side of Aliso Creek is split evenly between Project Committees 15 and 21. The

allocation of the project cost to the member agencies is presented in Table 1. The allocation of cost to each site is based on the percentage of construction cost estimated by TetraTech.

TABLE 1 - ALLOCATION OF COST TO MEMBER AGENCY

Site Location	PC	Evaluation /Design	ETWD	EBSD	IRWD	CLB	MNWD	SCWD
West Side Site 1	15	\$11,415	\$0	\$341	\$0	\$4,327	\$3,339	\$3,407
West Side Site 2	15	\$17,022	\$0	\$509	\$0	\$6,453	\$4,979	\$5,081
East Side Site 1	15/21	\$19,426	\$2,428	\$290	\$2,428	\$3,682	\$7,697	\$2,899
East Side Site 2	15/21	\$20,227	\$2,528	\$302	\$2,528	\$3,834	\$8,015	\$3,019
East Side Site 3 CTP	15	\$71,910	\$0	\$2,150	\$0	\$27,261	\$21,034	\$21,465
Total		\$140,000	\$4,957	\$3,593	\$4,957	\$45,558	\$45,064	\$35,872

Recommendation

The following action is recommended:

Ratify the decision of the General Manger in awarding an emergency evaluation and design services contract to TetraTech at a fee of \$140,000.00.

January 27, 2017

Brian Peck, P.E.
Director of Engineering
South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Subject: Aliso Creek Repair of January 2017 Storm Damages

Dear Brian:

The following scope covers the work anticipated to provide design plans for to repairs at 5 locations that were damaged during the storm events on January 20 – 23, 2017 along Aliso Creek. The following 5 locations are included in this effort:

1. West Side of Aliso Creek, South of Wood Canyon Confluence, Destruction of Slope Adjacent to Roadway
2. West Side of Aliso Creek, South of Wood Canyon Confluence, Damage to Rip and Guardrail and Slope
3. East Side of Aliso Creek, South of Alicia Parkway Gravel Parking Lot, Scallop in Roadway
4. East Side of Aliso Creek, South of ACHWEP Structure, Scallop in Roadway due to surface overflow
5. East Side of Aliso Creek, Adjacent to Coastal Treatment Plant, Undermining of Discharge Channel and Gully Adjacent to Mudwell Structure.

Task 1. Conceptual Phase

Tetra Tech will attend an initial site investigation to understand the damaged site conditions. A site evaluation report will be prepared to summarize the damage locations and describe the likely failure scenarios that occurred during the January storm events at each location. A single conceptual repair design will be developed at each of the 5 sites. These conceptual repairs will be shown on aerial photographs and provided to SOCWA for review and to support emergency permit processing. The concept plans will be provided within 5 working days of the Notice to Proceed and comments on the repairs from SOCWA will be required in 2 working days.

Through this task, Tetra Tech will maintain appropriate coordination with SOCWA and will participate in two (2) in-person meeting associated with the development of the repairs. It is anticipated that the first in-person meeting will occur on February 2 (Board of Directors). The 2nd meeting will be scheduled as requested.

Task 2. Emergency Repair Phase

Tetra Tech will prepare construction plans and specifications for the repairs at each of the 5 damage locations. An Emergency Repair Report will be prepared to document the assumptions and limitations of the repairs. It is expected that these repairs will be considered interim maintenance repairs and not provide a high level of protection (i.e. not designed to 100-year level standards). Engineer's cost estimates (including quantities) will be prepared for each of the alternatives. A draft set of construction documents will be provided 2 weeks after approval of the concept repair designs from SOCWA. It is assumed that comments on the draft submittal will be received within 2 working days and a final set of construction documents will be provided 1 week after receipt of comments.

Sources of rock and potential emergency contractors will be identified to support the bidding process. Support will be provided as requested to the level of effort identified in the fee estimate for support in the review of the bids and proposals. Support will also be provided to the level of effort identified in the fee estimate for coordination with Orange County (OC Parks and OCPW as needed).

Through this task, Tetra Tech will maintain appropriate coordination with SOCWA and will participate in two (2) in-person meeting associated with support through the design phase. The meetings will be scheduled as requested.

Assumptions

1. Tetra Tech will not be responsible for any permits other than approval from the Client.
2. Client will provide additional survey and rights-of-way data needs to be incorporated into the emergency repair drawings.
3. Tetra Tech shall be entitled to rely upon any information, data and documentation concerning the Project provided to it by Client or other parties or that is generally available, as well as any statements and representations made by Client concerning the Project or the Services. Tetra Tech shall have no obligation to investigate or independently verify the accuracy or completeness of such information.
4. Client will provide the upfront specifications and contract documents for bidding and awarding the construction contracts for the project sites. Tetra Tech will only be providing the technical specifications.
5. Services are limited to items included in this Scope and items not included in the Scope shall be considered Additional Services.

Schedule

The following anticipated schedule will be discussed as part of the project management in both phases of work. It is understood that time is critical as this work is expected to be accomplished before the end of the rainy season as part of an emergency repair.

Task	Working Days from NTP	Date Assuming NTP 1/31/17
Concept Plans	0 days	01/31/17
Comments/Approval of Concept Plans	2 days	02/02/17
Draft Bid Documents	15 days	02/21/17
Comments on Draft Bid Documents	17 days	02/23/17
Final Bid Documents	20 days	02/28/17

Fee

The total fee for this work is \$140,026 and will be performed on a Time and Material basis as shown on the following table.

If you have any questions about this proposal please call me at 949.809.5099

Sincerely,



Patti Sexton, P.E.
Vice-President

Aliso Creek Storm Repairs							
Hourly Rates:	\$276.00	\$241.50	\$198.50	\$158.00	\$126.50		
TASKS	Sr. Project Manager / QA/QC	Sr. Project Coordinator	Senior Engineer	Engineer IV	Engineer I	ODC	Total Cost
Task 1. Conceptual Phase							\$ 51,631
Project Management and Meetings	40	8				\$ 50	\$ 13,022
Site Visit	6	12				\$ 50	\$ 4,604
Site Evaluation Report	8	2	16				\$ 5,867
Develop Concepts	16	24	12	32	32		\$ 21,698
Provide Permitting Support	16				16		\$ 6,440
							\$ -
Task 2. Design Phase							\$ 88,395
Project Management and Meetings	12	8				\$ 50	\$ 5,294
Prepare Design Report	8	12	8	16	16		\$ 11,246
Prepare Bid Documents	24	40	24	72	96		\$ 44,568
Develop Cost Estimates and Rock Sources	4	16		8	32		\$ 10,280
Identify Emergency Contractors	6	4			8		\$ 3,634
Orange County Coordination	16	6		4	4		\$ 7,003
Support Bid/Proposal Review	8	12		8			\$ 6,370
TOTAL	164	144	60	140	204	\$ 150	\$ 140,026

Agenda Item

Budgeted: Yes

Budget amount: \$250,000

Line Item: PC 2 Task 3272-000

Legal Counsel Review: No

Meeting Date: March 2, 2017

TO: Project Committee 2 Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Brian Peck, Director of Engineering
SUBJECT: Award of Upgrade Services Contract for the J. B. Latham Treatment Plant Dewatering System Control Upgrade

Summary

The solids dewatering system at the J. B. Latham Treatment Plant includes three Andritz centrifuges. Two centrifuges are Andritz Model D5LL units installed in 2003; the third unit is a Model D5L installed in 1999. The control system for the dewatering system dates to 2003. Both the variable frequency drives and the programmable logic controllers have reached the end of their useful lives. The capital improvement budget for Fiscal Year '16/'17 included a line item for the upgrade to the dewatering system controls at the Latham Plant.

The SOCWA Operations Department sought proposals from Andritz to provide the components and the programming for the Latham centrifuges. SOCWA is able to replace some of the mechanical components for the centrifuges with parts from alternative vendors. However, the work on the control system is sole source due to the programming of the units. The Andritz pricing for the control system was compared with prior Andritz projects (including the 2011 upgrade to the four D5L centrifuges at the Regional Treatment Plant). The Andritz proposal was found to be in line with pricing on other projects.

The Andritz proposal includes the following:

- Six variable frequency drives (two for each centrifuge)
- Four programmable logic controllers (one per centrifuge and one for the Master Dewatering Control Panel)
- Four operator interface panels (one per centrifuge and one for the Master Dewatering Control Panel)
- Shipping of all components
- Preparation of new drawings and update of operation and maintenance manuals
- Programming of supplied components
- Start-up services.

The proposed cost for the Andritz scope is \$170,298 for components and services and \$9,138 for sales tax. The resulting total cost is \$179,436.

Advisory Committee Review

Proposals for control upgrade materials and services for the J. B. Latham Treatment Plant Dewatering System Control Upgrade were reviewed by the Engineering Committee on February 9, 2017. The Engineering Committee recommended award of contract to Andritz.

Fiscal Impact

The budget status of Task 3272-000 is presented in Table 1.

TABLE 1 - BUDGET STATUS

Task	Cost Center	Budget	Expended to Date	Proposed Upgrade Contract	Remainder
Dewatering System Control Upgrade (3272-000)	PC 2 Solids	\$250,000.00	\$0.00	\$179,436.00	\$70,564.00

The allocation of the project cost to the member agencies is presented in Table 2.

TABLE 2 - ALLOCATION OF COST TO MEMBER AGENCY

	PC 2 Task 3272-000
Moulton Niguel Water District	\$38,794.06
City of San Capistrano	\$53,830.80
Santa Margarita Water District	\$50,923.94
South Coast Water District	\$35,887.20
Total	\$179,436.00

Recommendation

The following action is recommended:

Approval of the award of the upgrade services contract to Andritz at a fee of \$179,436.00.

Agenda Item

Legal Counsel Review: No

Meeting Date: March 2, 2017

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

New Business

Operations & Maintenance

Storms and Power Outages Update

The most recent storm event, on February 18, 2017, was about 1.5 inches of total rainfall as compared to the 2.5 inches occurring on January 22, 2017 (briefed at the February 2, 2017 Board meeting). On February 18, 2017, the treatment plants experienced elevated flows, but not as high as during the January 22, 2017 event.

For each plant, the data comparison is as follows:

Plant	January 22/Peak Flow	February 18/Peak Flow
JBL	33 mgd	22 mgd
CTP	16 mgd	10 mgd
RTP	45 mgd	20 mgd

After the February 18, 2017 storm, the Regional Treatment Plant had several trees come down. The Costal Treatment Plant Road experienced additional erosion from water flowing down Woods Canyon. An additional 18 inches of road base was washed out from under the road.



February 18, 2017

The remaining road is sound. SOCWA staff met with contractors at the site to develop emergency plans to shift the road away from the creek if needed. SOCWA staff continues to monitor the road for changed conditions.

Since the February 18, 2017 storm event, the Regional and Coastal Treatment Plants have experienced a number of extended power outages. These outages are impacting the plant AWT ability to provide recycled water.

A summary of power outages includes:

Plant	Date	Outage Hours
RTP	2/14/17	8
CTP	2/18/17	4
RTP	2/20/17	30
CTP	2/21/17	2

SOCWA staff has been in contact with SCE to understand the problem and visited the Regional Treatment Plant on February 21, 2017. The power system to the Regional Treatment Plant has major problems and SCE has temporarily rewired 18 transformers in the area to try to resolve the issue. SOCWA staff responded by changing power settings in the plant to adjust to the phasing problems while SCE tries to resolve the problem. SOCWA staff continues to track and monitor the power levels at the plants.

WaterReuse Update

WaterReuse will hold its Annual Membership Meeting on March 21, 2017 (see attached Agenda). The meeting will provide for the election of officers and an update on 2017 Potable Reuse sponsored legislation and the direct potable reuse report to the legislature. Attached is the WaterReuse Action Agenda for 2017-2021.

Environmental Compliance

Regional Water Quality Control Board Upcoming Meeting

On March 15, 2017, the San Diego RWQCB will be conducting a monthly scheduled meeting. The NPDES compliance point move request for the South Coast Water District (SCWD) has been placed on the agenda as a consent calendar item. Currently the San Juan Creek Ocean Outfall NPDES permit requires the SCWD-Groundwater Reclamation Facility (GRF) to maintain compliance with California Ocean Plan (COP) Table 2 technically based effluent limits at the San Juan Creek Ocean Outfall monitoring structure M-001 and the GRF is also required to be monitored at M-001 F. The South Coast Water District would like to remove any ambiguity with respect to maintaining effluent standard compliance by monitoring for and maintaining compliance with permit limits at the SCWD-GRF discharge point M-001 F. This change would make the SCWD-GRF compliance point consistent with all other SJCOO dischargers. Please see figure 1 for an aerial view of the current and proposed compliance point. SOCWA staff will be in attendance at the meeting in case questions arise from the compliance point move.

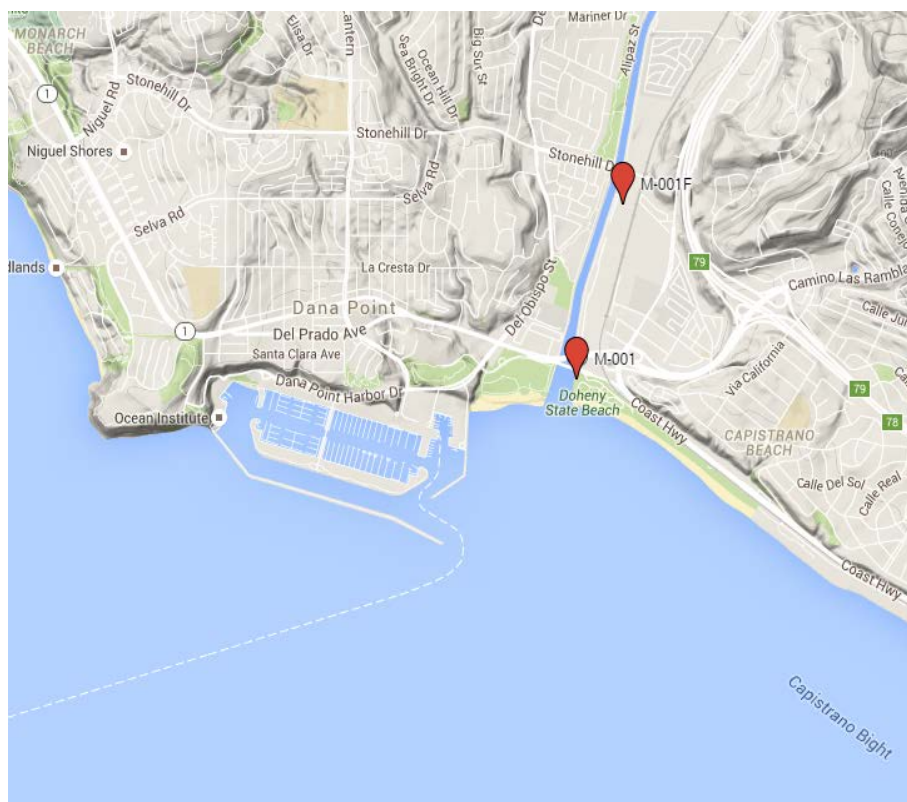


Figure 1: Current and proposed Point discharge locations for the SCWD GRF, M-001 Near Doheny State Beach, and M-001 F near the SCWD GRF.

CASA Regulatory Update

State Mercury Policy

The California Association of Sanitation Agencies (CASA) has submitted a letter along with the Bay Area Clean Water Agencies, the Central Valley Clean Water Association, CWEA, and SCAP (combined agencies referred to as the "Summit Partners") to the SWRQCB in order to request the SWRQCB to bifurcate mercury objectives related to the allowable limit of mercury in aquatic species and tribal/subsistence consumption of fish that may contain mercury. By decoupling the proposed combined actions, the Summit Partners desire to see the SWRQCB focusing first on achieving mercury objectives to protect aquatic life and then handling the ancillary issue and controversy surrounding beneficial use as related to tribal member's consumption of the fish. The Summit Partners also explain that by allowing a bifurcation of the policies, the State will be giving more time for the proper vetting of the proposed regulatory impact to affected agencies who may be faced with stricter mercury limits.

National Nutrient Survey Suspension

Due to the regulatory freeze by the current Trump administration, the POTW mandatory survey has been suspended. If the survey does resurface in the May/June 2017 timeframe it will most likely be voluntary. In step with the regulatory freeze the Dental Amalgam Rule has been frozen until further notice.

Statewide Toxicity Policy

The Statewide Toxicity Policy is scheduled to be released May 2017. While changes in the policy are directed toward inland surface waters and estuaries, the impact to SOCWA may be the ability to use the more favorable TST toxicity methodology for compliance purposes at the SJCOO & ACOO. The TST method is the preferred method for SOCWA.

Environmental Laboratory Accreditation Program Costs

The Environmental Laboratory Accreditation Program ("ELAP") is a function of CalEPA. New fees are being proposed that would increase costs to SOCWA by \$1300 per year for Laboratory Accreditation. In addition, due to proposed new standards required by ELAP, the SOCWA laboratory will need to spend a considerable amount of time working on implementation of the increased quality control compliance requirements. In testimony at the ELAP hearing last month, one Lab Manager of a public utilities lab with five staff members calculated that his lab would need to devote one person full time for one year solely on implementation of the new requirements. CASA is working to respond to the fee and regulatory compliance proposals.

SLCP, SB 1388 & Cal Recycle Update

On February 16, 2017, CalRecycle hosted the first of many workshops to be held on the development of regulations under SB 1383 implementing strategies to reduce Short-Lived Climate Pollutants (SLCP), including methane. The legislation calls for a 40% reduction in methane emissions by 2030 from 2013 levels, as well as a 50% diversion of organics from landfills by 2020 and a 75% diversion rate by 2025, from 2014 base year levels. This first workshop was a high level introduction of concepts, definitions, and alternatives to be considered as CalRecycle works to draft regulations to achieve the requirements. They are embarking on an informal rulemaking process to be carried out during 2017 and a formal rulemaking process to be carried out through 2018, with final adoption expected by the end of 2018 or early 2019.

Greg Kester has briefed CASA agencies stressing that there are infrastructure needs for co-digestion which includes not only ancillary upgrades at wastewater plants to facilitate the receipt of hauled-in organic waste, but also the ability to productively use all of the additional biogas produced and the resulting biosolids. Kester also stressed the point that before anything is banned, alternatives must exist so that if biosolids are included in an organics diversion requirement, then barriers put up at county borders through local ordinances must be removed, which in turn requires state assistance and support. The SCAP Climate Change consultant provided support for these needs and further suggested that biosolids be added to the draft list of recycled organic products for market development. Howard Levenson of CalRecycle acknowledged these needs.



**Annual Membership Meeting
And
Gordon Cologne Breakfast**



2017 Annual Conference - Westin San Diego
Tuesday March 21, 2017
Gordon Cologne Breakfast 8:00 – 9:30 a.m.

A. Seating and Breakfast Service

B. Annual Membership Meeting –Grant Davis, President

a. Financial Report

b. Presentation of Nominating Committee's Slate for Trustees and Election

Martha Davis, Inland Empire Utilities Agency
Paul Jones, Eastern Municipal Water District
AG Kawamura, Orange County Produce
Mike Markus, Orange County Water District
Dave Padersen, Las Virgenes Municipal Water District
Paul Sciuto, Monterey Regional Water Pollution Control Agency
Dawn Taffler, Kennedy/Jenks
Patricia Tennyson, Katz and Associates
Mike Thornton, San Elijo Point Powers Authority

c. Presentation of Nominating Committee's Slate of Officers and Election

President: Grant Davis, Sonoma County Water Agency
President-Elect: Richard Nagel, West Basin Municipal Water District
Secretary/Treasurer: Elizabeth Wells, El Dorado Irrigation District
Past President: Mike Markus, Orange County Water District
Representative to Water Reuse Association Board: Paul Klein, Kimley-Horn

C. Presentation of Judge Gordon Cologne Award – Jennifer West

D. Presentation of President's Award – Grant Davis

**E. 2017 Potable Reuse Sponsored Legislation and DPR Report to the Legislature -
Jennifer West and Richard Harris**

F. Adjourn

Betty Burnett

From: Teri Noson
Sent: Friday, January 20, 2017 9:10 AM
To: Betty Burnett
Subject: FW: WateReuse 2017-2021 Action Agenda

From: Melissa Meeker [mailto:mmeeker@watereuse.org]
Sent: Friday, January 20, 2017 7:42 AM
To: Teri Noson
Subject: WateReuse 2017-2021 Action Agenda



Dear Member:

WateReuse recently released our **2017-2021 Action Agenda**, which outlines the federal policy and funding priorities that we are championing for you in Washington, DC. Our priorities are designed to ensure water for our health, economy, environment, and quality of life. The Action Agenda was shared with the transition team for President-Elect Trump, leaders in the U.S. Senate and House of Representatives, and officials in key federal agencies.

The federal priorities identified by the WateReuse National Legislative and Regulatory Committee include:

- WaterSense
- Permitting of Potable Reuse
- Investment Tax Credit for Industrial Reuse
- Water Infrastructure Finance and Innovation Act (WIFIA)
- Clean Water State Revolving Fund
- Drinking Water State Revolving Fund

Our outreach is getting results. WateReuse achieved a major victory in December with the passage of the Water Infrastructure Improvements for the Nation (WIIN) Act, which reformed Title XVI into a competitive grants program. Additionally, Congress provided \$17 million in funding under WIFIA, the first year funding has been provided for projects.

To view the Action Agenda, [click here](#).

Sincerely,

A handwritten signature in cursive script, appearing to read "Melissa".

Melissa L. Meeker
Executive Director

WATER FOR OUR HEALTH, ECONOMY, ENVIRONMENT AND QUALITY OF LIFE



WaterREUSE

ACTION AGENDA 2017 - 2021

WATERUSE ACTION AGENDA FOR 2017-2021

► THINK BIG PICTURE

▼ *ACTION 1: Develop a national vision and strategy for water.*

Many factors contribute to a robust economy – a transportation system that can efficiently transport goods to market, a high quality education system that produces a skilled workforce that attracts investment, and a sustainable supply of water to meet the needs of people, businesses and the environment. While national leaders routinely debate the policies governing transportation and education, there is little national discussion about the policies surrounding water supply.

While local governments are clearly responsible for building and maintaining water infrastructure, the President and Congress can align laws, regulation and funding to help communities develop and provide safe, reliable, locally-controlled water supplies, which is essential to job creation.

Establishing a national vision and strategy for water will provide the framework for comprehensive, long-term planning for water infrastructure on the federal, state and local level.

DID YOU KNOW?



46%

The percentage of water used to produce products Americans buy every day.

► SUPPORT SCIENCE

▼ *ACTION 2: Support the science needed to safely increase water supplies.*

The Water Environment Research Foundation and the Water Reuse Research Foundation recently merged to form the Water Environment & Reuse Foundation. The merger created a robust and well-rounded portfolio of research in water, wastewater and stormwater, valued at more than \$200 million.

Since it was established in 1989, the Water Environment Research Foundation has been internationally-recognized as a leader in research related to wastewater and stormwater. Established just four years later in 1993, the Water Reuse Research Foundation has led the world in producing applied research in water reuse. The new Water Environment & Reuse Foundation will continue to focus on research in resource recovery and reuse, which provides the science for next generation technology and innovation to meet the growing demand for clean water.

Providing \$25 million in annual, recurring funding to the Water Environment & Reuse Foundation for research in water reuse and resource recovery will ensure the science is available to increase water reuse.

▶ INVEST IN INFRASTRUCTURE

▼ Action 3: Leverage federal funding to increase investment in water infrastructure.

The U.S. invests more than \$2 billion annually to build, repair and improve water infrastructure to meet growing demand and protect the environment. That investment generates \$12 billion in total investment.

Established in 1992, Title XVI is the only federal program that provides funding specifically for water reuse projects. The program has leveraged approximately \$639 million in federal funding to generate an additional \$2.4 billion in state and local funding.

Established in 1987, the Drinking Water State Revolving Fund provides low-interest loans to improve drinking water treatment, fix leaking or old pipes, improve the source of water supply, replace or construct finished water storage tanks, and other water infrastructure projects to protect public health including all forms of water reuse.

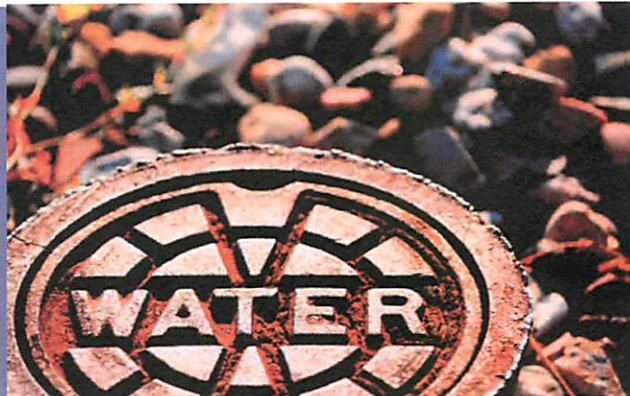
Budget Year	Title XVI (in millions)	Drinking Water State Revolving Fund (in millions)	Clean Water State Revolving Fund (in billions)
2013	\$20	\$861	\$1.30
2014	\$21.5	\$907	\$1.4
2015	\$21.5	\$907	\$1.448
2016	\$23	\$863	\$1.393
2017**	\$50	\$1,186	\$1.145

Established in 1997, the Clean Water State Revolving Fund provides low-interest loans to communities for the construction of municipal wastewater facilities, stormwater management projects, and other water quality projects including all forms of water reuse.

The U.S. Environmental Protection Agency distributes annual funding to the states who contribute an additional 20% of total funding. The states provide low-interest loans to public and investor-owned utilities. Loan repayments returned to the fund are then available to support new projects. States also have the option of leveraging federal dollars further by issuing revenue bonds to provide additional resources to fund projects.

The amount of money generated by \$1 invested in building or improving infrastructure.

\$6



DID YOU KNOW?

▼ **ACTION 4: Provide financing options for water infrastructure projects.**

The 2014 Water Infrastructure Finance and Innovation Act (WIFIA) provides tax-free municipal bonds and low-interest loans for up to 49% of the cost of construction for water, wastewater, stormwater and water reuse projects. Although the program was created two years ago, only minimal funding has been provided to establish the internal framework to manage the program.

The program is modeled after the successful Transportation Infrastructure Finance and Innovation Act (TIFIA) which provides loans, loan guarantees and standby lines of credit to pay for surface transportation projects such as highways, transit, railroad, intermodal freight and post access.

Fully funding the loan program can help advance large-scale, qualified projects that otherwise might be delayed or deferred because of size, complexity or uncertainty in future funding.

▼ **ACTION 5: Incentivize private investment in water reuse.**

Approximately 45% of drinking water supplies are consumed by industrial facilities, such as manufacturers, mining operations and power plants. Although many facilities may be able to reuse water, the cost of retrofitting existing facilities is often prohibitively expensive.

Establishing an investment tax credit – a dollar-for-dollar reduction in federal income taxes – for capital improvements to retrofit facilities will create an incentive for companies to recycle water, which will reduce the demand on drinking water supplies.

The Solar Investment Tax Credit, which provides a 30% tax credit for solar systems on residential and commercial properties, provides a model for the water reuse investment tax incentive. Since its implementation in 2006, annual solar installation has grown by more than 1600%, moving millions of homes and businesses off the power grid.

New legislation could be modeled on the *Energy Efficiency Tax Incentives Act (S.2189)*, which created a new investment tax credit for water reuse, recycling, and efficiency measures related to process, sanitary, and cooling water.

DID YOU KNOW?

1/5TH

The portion of the U.S. economy that would grind to a halt without a reliable and clean source of water

► MODERNIZE FEDERAL PROGRAMS

▼ *ACTION 6: Transform Title XVI into a competitive grant program.*

The Reclamation Projects Authorization and Adjustment Act of 1992, more commonly referred to as Title XVI (Public Law 102-575), is the only federal program that provides funding specifically for water reuse projects in 17 western states and Hawaii.

Since the program was enacted, 53 projects have been authorized, 20 projects have been completed and 37 projects have completed feasibility reports. In 2014 alone, an estimated 378,000 acre-feet of water was recycled.

PASSED

Under current law, Congress must approve each project. Despite the success of the program and the growing demand for recycled water, no new projects have been authorized since 2011. In addition, the current process locks in funding for projects that may not move forward because of a variety of factors, such as economic downturns, financing or changes in leadership.

Replacing the current process with a merit-based competitive process would allow the best projects to move forward, while maintaining appropriate accountability and congressional oversight.

▼ *ACTION 7: Reform the permitting process for Advanced Treated Water.*

Wastewater treatment facilities that recycle water are regulated under two federal laws – the Clean Water Act and the Safe Drinking Water Act. As a result, the federal rules may be duplicative or, at times, even contradictory.

Because treated wastewater is often discharged into the environment, the Clean Water Act requires wastewater facilities to obtain a permit for a National Pollution Discharge Elimination System (NPDES), which regulates the release of pollutants into nature.

However, more wastewater treatment facilities are using advanced treatment technologies to purify wastewater to more stringent water quality standards so it can be used to replenish groundwater or

55%

The increase in demand for water by businesses by 2050.



DID YOU KNOW?

supplement reservoirs. Because of this change in operations, the same water is now subject to regulation under the Safe Drinking Water Act.

Regulating Advanced Treated Water under one federal law – the Safe Drinking Water Act – will protect public health and the environment, while cutting red-tape and containing costs.

► PROTECT WATER QUALITY

▼ ***ACTION 8: Amend the WaterSense program to protect water quality.***

WaterSense is a program, administered by the U.S. Environmental Protection Agency, that partners with industries, businesses and utilities to promote products, buildings, landscapes, facilities, processes and services that use water efficiently. While the primary purpose of the program is to promote conservation, the program should also consider how water conservation products impact water quality, particularly when salt is added to the wastewater system.

For example, in November 2010, the water industry had to alert the U.S. Environmental Protection Agency about the unintended consequences of promoting self-regenerating water softeners as a water-efficient product. Self-regenerating water softeners, which are installed in homes to “soften” water, produce a salty brine which causes problems when entering the municipal wastewater system. Even after the wastewater is treated, it can have elevated levels of pollutants, such as salt, which prevent it from being recycled and can contribute to the degradation of groundwater quality.

Amending the law to ensure the WaterSense program considers impacts to water quality will increase protection for both water quality and supply.



DID YOU KNOW?



40%

The percent of water used to produce the food we eat and the beverages we drink.