

Agenda

Sacramento Suburban Water District Regular Board Meeting

3701 Marconi Avenue, Suite 100
Sacramento, California 95821

Monday, October 19, 2015
6:30 p.m.

Where appropriate or deemed necessary, the Board may take action on any item listed on the agenda, including items listed as information items. Public documents relating to any open session item listed on this agenda that are distributed to all or a majority of the members of the Board of Directors less than 72 hours before the meeting are available for public inspection in the customer service area of the District's Administrative Office at the address listed above.

The public may address the Board concerning an agenda item either before or during the Board's consideration of that agenda item. Persons who wish to comment on either agenda or non-agenda items should fill out a Comment Card and give it to the General Manager. The President will call for comments at the appropriate time. Comments will be subject to reasonable time limits (3 minutes).

In compliance with the Americans with Disabilities Act, if you have a disability, and you need a disability-related modification or accommodation to participate in this meeting, then please contact Sacramento Suburban Water District Human Resources at 679.3972. Requests must be made as early as possible, and at least one full business day before the start of the meeting.

Call to Order

Roll Call

Announcements

Public Comment

This is the opportunity for the public to comment on non-agenda items within the Board's jurisdiction. Comments are limited to 3 minutes.

Consent Items

The Board will be asked to approve all Consent Items at one time without discussion. Consent Items are expected to be routine and non-controversial. If any Board member, staff or interested person requests that an item be removed from the Consent Items, it will be considered with the action items.

1. Minutes of the September 21, 2015 Regular Board Meeting
Recommendation: Approve subject minutes.

2. Minutes of the October 5, 2015 Special Board Workshop
Recommendation: Approve subject minutes.
3. Water Banking and Transfer Policy (PL – BOD 006)
Recommendation: Adopt subject policy.

Items for Discussion and Action

4. Hexavalent Chromium and Groundwater Sustainability Agency Updates
Receive presentation by Robert Swartz, Sacramento Groundwater Authority, on recent trends in groundwater elevations of Hexavalent Chromium.
5. New Staff Position - Distribution Operator I/II
Consider approving new position request.
6. Water Conservation Update
Receive written report and direct staff as appropriate.
7. 2016 Budget and 2017 Forecast – Second Draft
Receive second draft budget, approve or direct staff as appropriate.
8. Reserve Policy (PL – Fin 004)
Receive written report and direct staff as appropriate.

Information Items

9. Water Conservation and Regional Water Efficiency Program Report
 - a. Drought Report
 - b. Summary of Activities to Date
 - c. Water Conservation Program and Results
 - d. Upcoming Events
10. District Activity Report
 - a. Water Operations and Exceptions Report
 - b. Customer Service Report
 - c. Community Outreach Report

11. Engineering Report
 - a. Major Capital Improvement Projects
 - b. County and City Projects/Coordination
 - c. McClellan Business Park
 - d. Groundwater Quality Projects
 - e. Developer Projects
 - f. Other
12. Financial Report
 - a. Financial Statements – September 2015
 - b. Investments Outstanding and Activity – September 2015
 - c. Cash Expenditures – September 2015
 - d. Credit Card Expenditures – September 2015
 - e. Directors Compensation and Expense Accounting – Through September 2015
 - f. Market Report Yields – January 2010 through September 2015
 - g. District Reserve Balances – September 2015
 - h. Information Required by Bond Agreement
13. New Accounting Pronouncement – Accounting and Financial Reporting for Pensions
14. Financial Markets Quarterly Report
15. Year-to-Date Interest Expense Quarterly Report
16. District Credit Rating
17. General Manager’s Report
 - a. Aerojet Superfund Issue Community Advisory Group Meeting

- b. Status of the Water Master Plan Update and the 2015 Urban Water Management Plan (UWMP)
 - c. Surface Water Supply of Former Northridge Water District
 - d. Modified Flow Management Standard
 - e. ACWA Region Election Results and Nominations for President/Vice President
- 18. Legislative and Regulatory Update
 - 19. Human Resources Quarterly Report
 - 20. CIP Projects Quarterly Report
 - 21. Notice of Violation Update – Central Valley Regional Water Quality Control Board
 - 22. Upcoming Policy Review
 - a. Employee Performance Evaluation, Merit and COLA Policy (PL – HR 003)

Committee Reports

- 23. a. Facilities and Operations Committee (Director Wichert)
No report.
- b. Finance and Audit Committee (Director Locke)
No report.
- c. Government Affairs Committee (Director Wichert)
No report.
- d. Ad Hoc Water Banking and Transfer Committee (Director Locke)
No report.
- e. Ad Hoc Water Rights Review Committee (Director Schild)
No report.

Director's Reports (Per AB 1234, Directors will report on their meeting activities)

- 24. a. Regional Water Authority (Director Thomas)
No report.

Regional Water Authority Executive Committee (General Manager Roscoe)
Agenda.

b. Sacramento Groundwater Authority (Director Schild)
Agenda.

c. Water Forum Successor Effort (Assistant General Manager York)
Agenda.

Carryover Storage Working Group Meetings
No report.

Water Forum Dry Year Conference Meeting
No report.

Water Caucus Meeting
No report.

d. Other Reports

Miscellaneous Correspondence and General Information

25. Correspondence received by the District

26. General Information

Director's Comments/Staff Statements and Requests

The Board and District staff may ask questions for clarification, and make brief announcements and comments, and Board members may request staff to report back on a matter, or direct staff to place a matter on a subsequent agenda.

Closed Session (Closed Session Items are not opened to the public)

27. Public employee performance evaluation involving the General Manager under Government Code section 54954.5(e) and 54957.

28. Conference with real property negotiator involving the purchase, sale, lease or exchange of real property, Assessor's Parcel Numbers 203-0270-001-0000 & 203-0270-001-0000. Robert Roscoe, District negotiator, will negotiate with Polycomp Trust Co. Instructions to the negotiator may include price, terms of payment, or both. (See Government Code sections 54954.5(b) and 54956.8.)

Adjournment

Upcoming Meetings

Thursday, October 29, 2015 at 3:00 p.m., Facilities and Operations Committee Meeting
Monday, November 16, 2015 at 6:30 p.m., Regular Board Meeting

I certify that the foregoing agenda for the October 19, 2015 meeting of the Sacramento Suburban Water District Board of Directors was posted by October 15, 2015 in a publicly-accessible location at the Sacramento Suburban Water District office, 3701 Marconi Avenue, Suite 100, Sacramento, California, and was freely available to the public.

Robert S. Roscoe
General Manager/Secretary
Sacramento Suburban Water District



Agenda Item: 13

Date: October 12, 2015

Subject: New Accounting Pronouncement – Accounting and Financial Reporting for Pensions

Staff Contact: Daniel A. Bills, Finance Director

As part of the District's 2014 external audit, Richardson & Company delivered a letter to the Board wherein they recommended six areas the District may wish to address to better improve District internal controls. While not directly related to District internal controls, the auditors recommended staff provide the Board with a proforma analysis of the impact of Government Accounting Standards Board Statement No. 68, "Accounting and Financial Reporting for Pensions," (GASB 68) that will be in effect for the District in 2015.

This Statement requires governments providing defined benefit pension plans to recognize their long-term obligation for pension benefits as liability on the statement of net position and to more comprehensively and comparably measure the annual costs of pension benefits. Historically, GASB's pension standards viewed the obligation to provide benefits as belonging to the plan, rather than to the employer. As a result, employers disclosed the amount of unfunded pension liability in notes to their financial statements instead of recognizing a liability on the face of the statement of net position. As the District participates in a multi-employer cost-sharing plan, the District will be required to report a liability equivalent to their proportionate share of the net pension liability of the plan as well as the related pension expense and any deferred inflows or deferred outflow of resources. Historically, the District has only included their required contributions as an expense. Based on the June 30, 2013 actuarial evaluation, the District's share of the unfunded pension liability is \$5,473,000 as of June 30, 2013, which is the latest available actuarial study. The provisions of the Statement are effective beginning with the December 31, 2015 financial statements.

At the November Board meeting, staff will present to the Board a proforma analysis of GASB 68 and its impact on the District financial statements by providing a revised set of financial statements for 2014, showing the impact of GASB 68 had the auditing standard been effective for the 2014 financial statements.

Staff has ordered an "Elected Officials Guide" of GASB 68 for director review prior to the November Board meeting that can be found in the front sleeve of this binder. The guide is entitled "The New Pension Accounting."



Agenda Item: 14

Date: October 8, 2015

Subject: Financial Markets Quarterly Report

Staff Contact: Daniel A. Bills, Finance Director

Summary of District's Debt Portfolio:

Debt	Original Par	Outstanding	Issuance	Credit Enhancement	Final Maturity
2009A	\$ 42,000,000	\$ 42,000,000	Adjustable Rate Revenue COP's	Sumitomo Bank*	11/1/2034
2009B	\$ 36,155,000	\$ 27,915,000	Fixed Rate Revenue COP's		11/1/2028
2012A	\$ 29,200,000	\$ 23,440,000	Fixed Rate Revenue Bond		11/1/2027
	<u>\$107,355,000</u>	<u>\$ 93,355,000</u>			

* Credit enhancement expires 6/30/2018

Current Status of District's Variable-Rate Debt Portfolio:

Debt	Outstanding	Credit Enhancement	Bank Owned	Sold in Market	Market Rate
2009A	\$42,000,000	Sumitomo Bank LOC	None	\$42,000,000	0.01%
	Notional Amount	Counterparty	FMV	Receive Rate	Fixed Rate
Swap	\$33,300,000	Wells Fargo Bank, N.A.	(\$8,026,283)	0.302%	3.283%

Current Status of District's Investment Portfolio (September 30, 2015):

Fair Market Value	Security Type	Yield
\$ 2,843,566	LAIF	0.33%
7,373,262	Certificates of Deposit	0.83%
11,608,622	Corporate Notes	1.54%
11,417,374	Agency Securities Bonds/Notes	0.87%
2,763,407	Municipal Bonds	1.54%
6,125,107	Treasury Bonds/Notes	1.22%
840,202	Agency Collateralized Mortgage Obligation	0.56%
<u>2,284,336</u>	Asset-Backed Securities/CMOs	<u>1.02%</u>
<u>\$45,255,876</u>		<u>1.09%</u>

Market:

Listed below is the most recent market summary provided by the District's Investment Portfolio Advisor (PFM Asset Management):

Current Bond Markets

- Despite a sharp increase in yields increase ahead of the FOMC meeting, the move was quickly reversed after the “no hike” decision, and Treasury yields ended the month lower. Intermediate maturities were impacted the most as three- to 10-year maturities declined by 11 to 16 basis points.
- As a result, Treasury indices generated positive performance for the month with long-maturity Treasuries returning nearly 1.5% for the month and more than 5.0% for the quarter.
- Federal agency yield spreads widened modestly during the month, causing the sector to underperform comparable maturity Treasuries.
- Increased market volatility combined with growing global economic uncertainty caused credit spreads to widen sharply. As a result, most corporates underperformed comparable government securities, with lower quality bonds (BBB and, especially, high yield) performing the worst.
- Mortgage-backed securities (MBS) underperformed comparable duration government securities as heightened volatility increased uncertainty around the speed of mortgage prepayments.
- Short-term markets tracked rate hike expectations closely, as yields rose sharply in the days leading up to the September FOMC meeting, then quickly declined when the FOMC failed to move. Supply limits continue to affect the market as banks have scaled back issuance of short-term securities under regulatory pressure.

PFM Outlook – Short-Term

- Weakness in emerging markets economies, most notably China, changed market psychology, triggering more volatility and trades designed to reduce investor risk. This affected equities most directly (they lost value), but also credit markets (where Treasuries and other high quality sovereign debt gained value, while high yield and emerging market debt were punished). The concern even filtered into the FOMC's recent decision to hold off on raising rates.
- The disconnect has increased between the FOMC's outlook for the economy and that of investors, with the central bank forecasting a trend of solid growth that would support a hike in short term rates later this year, while investors are betting on no increase before 2016.
- With U.S. interest rates depressed by global forces rather than a fundamental change in the outlook for the domestic economy, we continue to hold a modestly defensive posture with regard to portfolio durations versus benchmarks.
- The corporate sector has cheapened considerably, and investment grade corporate bonds now appear to offer strong value. Unless the global economy drags down the U.S. economy—not our current view—the added income from the corporate sector should be a valuable contributor to performance over time
- MBS offer modest return enhancement opportunity, but also greater risk in volatile markets.
- In the money-market space, we see value in commercial paper and certificates of deposit (CDs) longer than three months where yields have incorporated the effects of a single rate hike later this year.

(Source: PFMAM September 2015 Monthly Market Review).

Debt Portfolio:

The District's debt portfolio is now primarily fixed-rate debt, with such issuances representing 55% of the District's portfolio. While the District's exposure to market conditions has been reduced, the District is exposed to interest rate risk primarily on the un-hedged portion of its variable-rate COP, representing \$8.7 million. Such risk is managed by the District through adherence to the District's Reserve Policy that addresses the management of interest rate risk through prudent investing of reserves in short-term variable-rate securities in an amount at least equal to the un-hedged debt exposure.

Investment Portfolio:

In this market environment, the investment objective is to position portfolio durations modestly short of benchmarks while underweighting longer maturities with more emphasis on shortening the portfolio.



Agenda Item: 15

Date: October 8, 2015

Subject: Year-to-Date Interest Expense Quarterly Report

Staff Contact: Daniel A. Bills, Finance Director

Interest expense consists of: 1) interest paid to bondholders, 2) letter-of-credit facility fees, 3) remarketing fees, 4) arbitrage rebate liabilities, and 5) net SWAP interest.

Year-to-date, the District has incurred interest expense of \$2,711,207 versus a forecast of \$3,041,250 or a \$330,043 positive variance. The combination of the municipal bond markets continuing to remain stable with debt trading at or near historic lows and the “receive-rate” on the interest rate swap exceeding interest expense on variable-rate debt have led to the positive results.

**Sacramento Suburban Water District
Interest Expense
2015**

	<u>A</u> 2015 Debt Interest <u>FORECAST</u>	<u>B</u> 2015 Actual Debt Service Cost	<u>A - B</u> 2015 <u>DIFFERENCE</u>	2015 CUMULATIVE YTD <u>DIFFERENCE</u>
2015				
January	\$ 337,900	\$ 320,856	\$ 17,044	\$ 17,044
February	337,900	283,206	54,694	71,738
March	337,950	361,526	(23,576)	48,162
April	337,900	284,721	53,179	101,341
May	337,900	276,442	61,458	162,799
June	337,950	328,816	9,134	171,934
July	337,900	306,581	31,319	203,253
August	337,900	273,045	64,855	268,108
September	337,950	276,015	61,935	330,043
October				
November				
December				
TOTAL 2015	<u>\$ 3,041,250</u>	<u>\$ 2,711,207</u>	<u>\$ 330,043</u>	



Agenda Item: 16

Date: October 5, 2015

Subject: District Credit Rating

Staff Contact: Daniel A. Bills, Finance Director

Discussion:

At the time of debt issuance the District is required to obtain a credit rating¹ from at least two of the three most prominent credit rating agencies – Standard & Poor’s Rating Services (S&P), Moody’s Investor Services (Moody’s), or Fitch Ratings’ Ltd. (Fitch.) The District utilizes the rating services of both S&P and Moody’s as they are the major providers of credit ratings in the municipal debt marketplace. After issuance, each year, both S&P and Moody’s perform an analytical review and update the District’s credit rating.

As reported to the Board in March 2015, Moody’s completed their annual review in February 2015 and reaffirmed their “Aa2” rating. Now S&P has completed their review and reaffirmed their rating of AA+ for the District. See S&P’s report attached.

This is a significant accomplishment for the District as many water agencies throughout the state have seen their credit ratings decline as a result of the drought.

In their report, as support for their rationale, S&P noted the following:

Strengths

1. “Broad service area that encompasses a nearly fully developed portion of Sacramento's northeastern suburbs;
2. Strong debt service coverage (DSC) of more than 3x during the past four years, with no additional bond issuance planned;
3. Very strong liquidity position that we anticipate will be maintained going forward, based on the District's internal policies; and
4. Water supply capability that can meet 100% of demand from groundwater sources during dry periods, but also takes advantage of surface water sources when available during normal and wet periods.
5. The customer base is stable, primarily residential, and very diverse.

¹ A credit rating is a forward-looking opinion about credit-risk. Credit ratings express the individual credit rating agency’s view about the ability and willingness of an issuer to meet its financial obligations in full and on time. Credit ratings also speak to the credit quality of an individual debt issuance and the relative likelihood that the issue may default.

- 6. The District’s water service rates are affordable and provide management with revenue-raising flexibility.
- 7. The capital improvement program (CIP) for the next five years is manageable, and the District plans to fund the CIP on a “pay-as-you go basis.”

Challenges

- 1. “Partly offsetting the above credit strengths, in our view, are the District's service area income metrics, which are well below median as compared to peers.”

Outlook

“The stable outlook reflects our view of the District's stable customer base and water supply that is robust enough to meet demand through various hydrological conditions. During the two-year outlook period, we anticipate that the District will continue to implement additional rate increases as approved, and complete the updated water master plan with the assistance of its engineering consultant.”

Upside scenario

“Although we do not anticipate doing so at this time, we could take a positive rating action if the service area economy continues to improve, as demonstrated through rising income metrics.”

Downside scenario

“Although we do not anticipate it at this time, we could take a negative rating action if the District's updated system plans reveal the need for significantly increased capital spending, which could pressure DSC and liquidity metrics.”

Listed below are the investment grade credit rating scales of both S&P and Moody’s. The scale is from highest to lowest in descending order. As can be seen, the District is one notch below the highest credit rating of “AAA” awarded by S&P, while Moody’s rating of “Aa2” is two notches below their highest credit rating of “Aaa”.

Credit Rating Scales	
Moody’s	S&P
Aaa	AAA
Aa1	AA+
Aa2	AA
Aa3	AA-
A1	A+
A2	A
A3	A-
Baa1	BBB+
Baa2	BBB-



One California Street, 31st Floor
San Francisco, CA 94111-5432
tel 415 371-5000
reference no.: 40273131

September 29, 2015

Sacramento Suburban Water District
3701 Marconi Drive, Suite 100
Sacramento, CA 95821--5346
Attention: Mr. Daniel A. Bills, Finance Director

Re: *Sacramento Suburban Water District, California, Revenue Bonds*

Dear Mr. Bills:

Standard & Poor's Ratings Services ("Ratings Services") hereby affirms its rating of "AA+" for the underlying rating (SPUR) on the above-listed obligations and stable outlook. A copy of the rationale supporting the rating and outlook is enclosed.

This letter constitutes Ratings Services' permission for you to disseminate the above rating to interested parties in accordance with applicable laws and regulations. However, permission for such dissemination (other than to professional advisors bound by appropriate confidentiality arrangements) will become effective only after we have released the rating on standardandpoors.com. Any dissemination on any Website by you or your agents shall include the full analysis for the rating, including any updates, where applicable.

To maintain the rating, Standard & Poor's must receive all relevant financial and other information, including notice of material changes to financial and other information provided to us and in relevant documents, as soon as such information is available. Relevant financial and other information includes, but is not limited to, information about direct bank loans and debt and debt-like instruments issued to, or entered into with, financial institutions, insurance companies and/or other entities, whether or not disclosure of such information would be required under S.E.C. Rule 15c2-12. You understand that Ratings Services relies on you and your agents and advisors for the accuracy, timeliness and completeness of the information submitted in connection with the rating and the continued flow of material information as part of the surveillance process. Please send all information via electronic delivery to pubfin_statelocalgovt@standardandpoors.com. If SEC rule 17g-5 is applicable, you may post such information on the appropriate website. For any information not available in electronic format or posted on the applicable website,

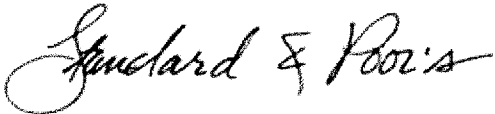
Please send hard copies to:

Standard & Poor's Ratings Services
Public Finance Department
55 Water Street
New York, NY 10041-0003

The rating is subject to the Terms and Conditions, if any, attached to the Engagement Letter applicable to the rating. In the absence of such Engagement Letter and Terms and Conditions, the rating is subject to the attached Terms and Conditions. The applicable Terms and Conditions are incorporated herein by reference.

Ratings Services is pleased to have the opportunity to provide its rating opinion. For more information please visit our website at www.standardandpoors.com. If you have any questions, please contact us. Thank you for choosing Ratings Services.

Sincerely yours,

A handwritten signature in black ink that reads "Standard & Poor's". The signature is written in a cursive, flowing style.

Standard & Poor's Ratings Services

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enclosure



One California Street, 31st Floor
San Francisco, CA 94111-5432
tel 415 371-5000
reference no.: 40273131

September 29, 2015

Sacramento Suburban Water District
3701 Marconi Drive, Suite 100
Sacramento, CA 95821--5346
Attention: Mr. Daniel A. Bills, Finance Director

Re: *Sacramento Suburban Water District, California, Variable Rate Certificates of Participation, Series 2009A*

Dear Mr. Bills:

Standard & Poor's Ratings Services ("Ratings Services") hereby affirms its rating of "AAA/A-1" for the above-referenced obligations and not meaningful outlook. A copy of the rationale supporting the rating and outlook is enclosed.

This letter constitutes Ratings Services' permission for you to disseminate the above rating to interested parties in accordance with applicable laws and regulations. However, permission for such dissemination (other than to professional advisors bound by appropriate confidentiality arrangements) will become effective only after we have released the rating on standardandpoors.com. Any dissemination on any Website by you or your agents shall include the full analysis for the rating, including any updates, where applicable.

To maintain the rating, Standard & Poor's must receive all relevant financial and other information, including notice of material changes to financial and other information provided to us and in relevant documents, as soon as such information is available. Relevant financial and other information includes, but is not limited to, information about direct bank loans and debt and debt-like instruments issued to, or entered into with, financial institutions, insurance companies and/or other entities, whether or not disclosure of such information would be required under S.E.C. Rule 15c2-12. You understand that Ratings Services relies on you and your agents and advisors for the accuracy, timeliness and completeness of the information submitted in connection with the rating and the continued flow of material information as part of the surveillance process. Please send all information via electronic delivery to pubfin_statelocalgovt@standardandpoors.com. If SEC rule 17g-5 is applicable, you may post such information on the appropriate website. For any information not available in electronic format or posted on the applicable website,

Please send hard copies to:

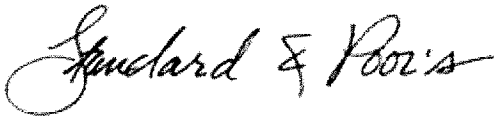
Standard & Poor's Ratings Services
Public Finance Department
55 Water Street

New York, NY 10041-0003

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Standard & Poor's Ratings Services

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One California Street, 31st Floor
San Francisco, CA 94111-5432
tel 415 371-5000
reference no.: 40271319

September 29, 2015

Sacramento Suburban Water District
3701 Marconi Drive, Suite 100
Sacramento, CA 95821--5346
Attention: Mr. Daniel A. Bills, Finance Director

Re: *Sacramento Suburban Water District, California, Revenue Bonds*

Dear Mr. Bills:

Standard & Poor's Ratings Services ("Ratings Services") hereby affirms its rating of "AA+" for the above-referenced obligations and stable outlook. A copy of the rationale supporting the rating and outlook is enclosed.

This letter constitutes Ratings Services' permission for you to disseminate the above rating to interested parties in accordance with applicable laws and regulations. However, permission for such dissemination (other than to professional advisors bound by appropriate confidentiality arrangements) will become effective only after we have released the rating on standardandpoors.com. Any dissemination on any Website by you or your agents shall include the full analysis for the rating, including any updates, where applicable.

To maintain the rating, Standard & Poor's must receive all relevant financial and other information, including notice of material changes to financial and other information provided to us and in relevant documents, as soon as such information is available. Relevant financial and other information includes, but is not limited to, information about direct bank loans and debt and debt-like instruments issued to, or entered into with, financial institutions, insurance companies and/or other entities, whether or not disclosure of such information would be required under S.E.C. Rule 15c2-12. You understand that Ratings Services relies on you and your agents and advisors for the accuracy, timeliness and completeness of the information submitted in connection with the rating and the continued flow of material information as part of the surveillance process. Please send all information via electronic delivery to pubfin_statelocalgovt@standardandpoors.com. If SEC rule 17g-5 is applicable, you may post such information on the appropriate website. For any information not available in electronic format or posted on the applicable website,

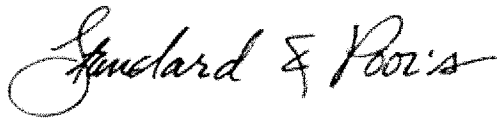
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Summary:

Sacramento Suburban Water District, California; Joint Criteria; Water/Sewer

Primary Credit Analyst:

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Rationale

Outlook

Related Criteria And Research

Summary:

Sacramento Suburban Water District, California; Joint Criteria; Water/Sewer

Credit Profile

Sacramento Suburban Wtr Dist rfdg rev bnds

Long Term Rating

AA+/Stable

Affirmed

Rationale

Standard & Poor's Ratings Services affirmed its 'AA+' long-term rating and underlying rating (SPUR) on Sacramento Suburban Water District, Calif.'s revenue bonds. At the same time, we affirmed our 'AAA/A-1' dual rating on the district's series 2009A variable-rate certificates of participation (COPs). The outlook on the district's fixed-rate COPs is stable.

The 'AA+' long-term rating and SPUR reflect our view of the district's:

- Broad service area that encompasses a nearly fully developed portion of Sacramento's northeastern suburbs;
- Strong debt service coverage (DSC) of more than 3x during the past four years, with no additional bond issuance planned;
- Very strong liquidity position that we anticipate will be maintained going forward, based on the district's internal policies; and
- Water supply capability that can meet 100% of demand from groundwater sources during dry periods, but also takes advantage of surface water sources when available during normal and wet periods.

Partly offsetting the above credit strengths, in our view, are the district's service area income metrics, which are well below median as compared to peers.

We view the bond provisions as adequate. The bonds are secured by the net revenues of the district's water system. Key bond provisions include a rate covenant and an additional bonds test, both of which are set at 1.15x annual debt service. Additional liquidity is provided for the series 2009B COPs through a standard cash-funded debt service reserve fund. A debt service reserve fund was not provided for the series 2012A certificates, but we do not believe this presents a material credit weakness given the district's track record of maintaining a strong liquidity position.

The district encompasses about 36 square miles in the northeastern portion of the Sacramento metropolitan area. The service area population is currently about 173,000 and is projected by the Sacramento Area Council of Governments to grow to about 217,000 in 2035 when the service area will be fully built out. Given that the district covers a suburb of California's capital city, government and consulting dominate employment opportunities. We view the service area's income levels as adequate based on the median household effective buying incomes (MHHEBIs) for the North Highlands census designated place (CDP) and the Arden-Arcade CDP, which were 79% and 86% of the national median for 2014, respectively. The county's unemployment rate improved during the past three years to 5.8% (not

seasonally adjusted) for May 2015 from 10.3% for May 2012 as the effects of the economic recession have subsided.

The customer base is stable, primarily residential, and very diverse. During the past five years, the number of system connections increased at an average annual rate of 0.9% to 46,112 at the end of 2014. We consider the customer base to be primarily residential based on residential customers making up about 93% of the system connections. We also consider the customer base to be very diverse based on the leading 10 customers contributing about 3.8% of water sales revenue.

Water supply is typically provided from both groundwater and surface water sources although the district is able to meet 100% of demand from only groundwater sources, if necessary. The district operates cooperatively with neighboring agencies to utilize surface water supplies during wet periods, which allows the underlying aquifer to rest and recharge so that groundwater supplies are available during dry periods. For example, during fiscal years 2010 and 2011 (a wet period), about half of the district's water supply was provided from surface sources, such as water purchases from Placer County Water Agency or the city of Sacramento derived from the American River. In contrast, during fiscal years 2013 and 2014 (a dry period), virtually all of the district's water supply was provided from the district's groundwater wells, which are able to pump 131.2 million gallons per day (mgd). This supply capability compares favorably with average daily demand of about 34 mgd and peak day demand of about 52 mgd. We understand that demand declined to about 29 mgd in fiscal year 2014 due to water conservation efforts, and given the statewide mandatory water conservation that is currently in effect, management anticipates that water demand will decline further in fiscal year 2015, to about 25 mgd.

The district's water service rates are affordable and provide management with revenue-raising flexibility. Approximately 79% of the customer base is billed based on metered water usage while the remaining 21% are not metered and are instead billed a flat monthly rate. We understand that the district is obligated to bill all customers based on metered usage by 2025 and management anticipates that the conversion of accounts to metered service will be completed a few years in advance of the deadline. The residential metered rate structure is composed of a meter service charge and two usage-based rate tiers. Based on our benchmark usage of 1,000 cubic feet per month, we calculate a residential monthly bill of \$32.06. We consider this monthly bill to be affordable, at 1.1% of North Highlands' MHHEBI after the bill is annualized. Service rates remained unchanged from 2009 through 2014, but the district's board approved a four-year schedule of rate increases for fiscal years 2015 through 2018 that raise rates by about 4% annually.

The capital improvement program (CIP) during the next five years is manageable, and the district plans to fund the CIP on a pay-as-you-go basis. Capital projects are related primarily to renewal and replacement of the existing system, with annual spending of about \$20 million planned by management. For example, the fiscal year 2015 capital budget includes about \$18.3 million of projects including well rehabilitation and replacements (\$2.5 million), distribution main replacements and improvements (\$9.7 million), and water meter installations and replacements (\$1.7 million). At this time, the district does not plan to fund any capital projects through additional borrowing. We understand that the district is currently working with an engineering consultant on an update to the district's water master plan and 2015 urban water management plan.

The district's financial performance has been very strong, and we anticipate that performance will be comparable

going forward. Based on the district's audited financial statements, we calculate that DSC during the past four years ranged from 3.0x in fiscal year 2011 to 3.6x in fiscal year 2013. For the purpose of calculating DSC, we exclude a one-time accounting charge in 2012 related to the interest rate swap termination that occurred in conjunction with the 2012 refunding transaction. Although water demand declined by 16% in fiscal year 2014, the effect on operating revenues was significantly muted because about 70% of the district's operating revenue is generated through the fixed components of the monthly water bill. Based on management's financial forecast through fiscal year 2020, which assumes that approved rate increases are implemented as scheduled and operating expenses rise by 3% to 5% annually, we anticipate that DSC will remain above 3.0x throughout the forecast period. Despite additional water conservation expected in fiscal year 2015 to comply with statewide mandatory water conservation, we anticipate the effect on operating revenues will largely be offset by the 4% rate increase that became effective in January 2015.

The district's liquidity position has been consistently very strong, and we anticipate that it will remain comparable going forward. During the past four years, the district reported year-end unrestricted liquidity that ranged from \$41 million, equivalent to 942 days of operating expenses, for 2014 to \$46 million, or 960 days, for 2011. We believe the strong cash position acts as a hedge against the portion of the district's variable-rate debt that is not already hedged by an interest rate swap. The district's internal policy requires a minimum cash position of \$40 million to fund capital needs, provide for an operations and maintenance reserve, and hedge against interest rate fluctuations as indicated above; management's forecast indicates compliance with this policy during the forecast periods.

Outlook

The stable outlook reflects our view of the district's stable customer base and water supply that is robust enough to meet demand through various hydrological conditions. During the two-year outlook period, we anticipate that the district will continue to implement additional rate increases as approved, and complete the updated water master plan with the assistance of its engineering consultant.

Upside scenario

Although we do not anticipate doing so at this time, we could take a positive rating action if the service area economy continues to improve, as demonstrated through rising income metrics.

Downside scenario

Although we do not anticipate it at this time, we could take a negative rating action if the district's updated system plans reveal the need for significantly increased capital spending, which could pressure DSC and liquidity metrics.

Related Criteria And Research

Related Criteria

- USPF Criteria: Water And Sewer Ratings, June 25, 2007
- USPF Criteria: Key Water And Sewer Utility Credit Ratio Ranges, Sept. 15, 2008
- USPF Criteria: Standard & Poor's Revises Criteria For Rating Water, Sewer, And Drainage Utility Revenue Bonds, Sept. 15, 2008
- Criteria: Methodology And Assumptions: Approach To Evaluating Letter Of Credit-Supported Debt, Feb. 20, 2015

- USPF Criteria: Municipal Applications For Joint Support Criteria, June 25, 2007
- Criteria: Joint Support Criteria Update, April 22, 2009
- USPF Criteria: Methodology: Definitions And Related Analytic Practices For Covenant And Payment Provisions In U.S. Public Finance Revenue Obligations, Nov. 29, 2011
- USPF Criteria: Assigning Issue Credit Ratings Of Operating Entities, May 20, 2015
- Criteria Update: Joint-Support Criteria Refined, Feb. 3, 2006
- Criteria: Use of CreditWatch And Outlooks, Sept. 14, 2009

Related Research

- U.S. State And Local Government Credit Conditions Forecast, July 22, 2015
- U.S. Municipal Water And Sewer Utilities 2014 Sector Outlook: Learning To Do More With Less, Jan. 9, 2014
- 2014 Review Of U.S. Municipal Water And Sewer Ratings: How They Correlate With Key Economic And Financial Ratios, May 12, 2014

Ratings Detail (As Of October 2, 2015)

Sacramento Suburban Wtr Dist var rta rfdg ser 2009A

<i>Long Term Rating</i>	AAA/A-1	Affirmed
<i>Unenhanced Rating</i>	AA+(SPUR)/Stable	Affirmed

Complete ratings information is available to subscribers of RatingsDirect at www.globalcreditportal.com. All ratings affected by this rating action can be found on Standard & Poor's public Web site at www.standardandpoors.com. Use the Ratings search box located in the left column.

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Agenda Item: 17

Date: October 6, 2015

Subject: General Manager's Report

Staff Contact: Robert S. Roscoe, General Manager

a. Aerojet Superfund Issues Community Advisory Group Meeting

A Community Advisory Group (CAG) meeting was held on September 23, 2015. Engineering Manager, John Valdes, attended this meeting on behalf of the District. Director Kevin Thomas also attended the meeting. A copy of the meeting agenda is attached as Exhibit 1.

At this meeting, there was an Aerojet Community Update by Chris Fennessy of Aerojet; an Aerojet Cleanup Status Report by Julie Santiago-Ocasio of the Environmental Protection Administration (EPA); a report on the potential option to transfer oversight of Area 40 to the State Department of Toxics and Substance Control (DTSC) by Lynn Keller of EPA, and a Regional Board Cleanup Overview by Alex MacDonald of the Central Valley Regional Water Quality Control Board (CVRWQCB).

Ms. Santiago-Ocasio gave a power point presentation and reported that a Record of Decision (ROD) has now been completed for Operational Unit (OU) 6. A copy of the ROD was handed out to interested parties. Mr. MacDonald reported that Aerojet has completed the construction of three new groundwater monitoring wells in Carmichael. The edge of the groundwater contamination plume in this area is of significant interest to SSWD. He further reported that these three wells were tested for N-Nitrosodimethylamine (NDMA) and the samples came back as non-detect. Mr. MacDonald also stated that perchlorate is not a contaminant of concern in this location.

The next CAG meeting will be held on November 18, 2015.

b. Status of the Water Master Plan Update and the 2015 Urban Water Management Plan (UWMP)

Brown and Caldwell (B&C) is well underway on this project. Over the past month, District staff has been continuing to provide various requested data and information to B&C. B&C is currently completing the land use and demographic projection task. To complete this task, B&C has collected the most recent demographic projection data and land use mapping from Sacramento County and other sources. A draft Technical Memo (Chapter) is anticipated to be completed in October 2015, and will be provided to District staff for review.

On September 21, 2015, the District's Field Services, Production, and Distribution Superintendents met with B&C representatives to discuss and review the District's Supervisory

Control and Data Acquisition (SCADA) system and various Preventive Maintenance (PM) tasks currently being performed by the District. B&C will use the information on the District's SCADA to identify District needs and goals related to SCADA implementation. For the PM task, B&C will review the District's current PM practices and compare the work currently performed against each operations group's mission and service level goals. B&C will also consider standard practices as described by the American Water Works Association and the practices of other agencies.

Also as part of the Master Plan Update, B&C is also in the process of evaluating and formulating a long-term plan and schedule for the rehabilitation of the District's existing groundwater wells so that water demands can be met in the most efficient manner. B&C is using the District's Groundwater Well Asset Management Plan for this task. The plan and schedule being developed will include recommendations for well rehabilitation and adding new wells to replace wells that are old and failing, have poor rehabilitation prospects, are uneconomical to operate, or have regulatory water quality issues.

As currently planned, B&C representatives will attend the next Facilities and Operations Committee Meeting to provide the committee with a detailed update on the project.

c. Surface Water Supply of Former Northridge Water District

At the July 20, 2015 regular Board meeting, staff was directed to meet with City of Sacramento (City) staff to discuss the 9,023 acre feet (af) of surface water supply to determine if it can be reallocated to the District. On September 2, 2015, District staff and legal counsel met with City staff legal counsel to discuss the available options for reallocation of the former Northridge Water District's Area D water supply.

The City has agreed that they are willing to work with the District on some type of agreement to revive or renegotiate the existing agreement, as the parties determine would be most acceptable. The options discussed were a Memorandum of Understanding or letter between the parties agreeing to renegotiate the former Northridge Area D contract in the future would be sufficient short term. Staff will be drafting a letter memorializing this intent and provide to the City review. The City also is open to negotiating a more formal amendment to the existing agreement, or renegotiating that agreement altogether. District staff's preference is to negotiate a new agreement.

During the discussions, the District will address the City's current Annual Wholesale Water Rate Calculation, which is presently \$428.80 per af, to determine if there is another cost factor that can be utilized.

d. Modified Flow Management Standard

The Sacramento Water Forum has developed a Modified Flow Management Standard (Modified FMS) for the Lower American River, with the goals of protecting anadromous salmonids and avoiding catastrophic water shortages in the basin. Beginning in 2000, the Water Forum worked jointly with state and federal agencies for 5 years to develop a rigorous, science based flow management standard. The work resulted in a Lower American River Flow Management

Standard (2006 FMS). The Bureau of Reclamation has consistently operated under the 2006 FMS. Although the 2006 FMS was an improvement over the historical American River operations, that flow prescription still potentially allows water storage to drop to levels that would preclude purveyor diversions and cause lethal water temperatures to salmonids. The Modified FMS differs from the 2006 FMS in that it includes seasonal release allocations, and relies upon more representative indices of water availability than the 2006 FMS. Per the Water Forum governance procedure, the Water Forum received unanimous Water Caucus endorsement of the Modified FMS at the October 8, 2015 Water Forum Plenary meeting. Approval of this support is an important prerequisite to furthering discussions on the Modified FMS with the State Water Resourced Control Board and Bureau of Reclamation.

e. ACWA Region Election Results and Nominations for President/Vice President (Region 4 (Solano, Yolo, Sacramento, San Joaquin and Stanislaus counties))

The following is the 2016-17 ACWA Region 4 Election Results:

Chair: Robert S. Roscoe, Sacramento Suburban Water District

Vice Chair: Glen Grant, Solano Irrigation District

Board Members:

Mike Hardesty, Reclamation District No. 2068

Thomas McGurk, Stockton East Water District

John Mensinger, Modesto Irrigation District

Tim O'Halloran, Yolo County Flood Control & Water Conservation District

Pamela Tobin, San Juan Water District

ACWA Nominations Committee recommendations (Voting at the ACWA Fall Conference)

President: Kathleen Tiegs, Director, Cucamonga Valley Water District

Vice President: Brent Hasty, Director, Yuba County Water Agency

**Community Advisory Group - Aerojet Superfund Issues
7:00 PM
Wednesday, September 23, 2015
Rancho Cordova Police Department
Canfield Community Room
2897 Kilgore Road
Rancho Cordova, CA 95670**

Agenda

1. Welcome & Introductions – Janis Heple, CAG Chair
2. Aerojet Community Updates –Chris Fennessy, Aerojet
3. Aerojet Cleanup Status Report, Operational Unit 6 (OU6) Record of Decision (ROD) and documents that were included in the Administrative Record
– Julie Santiago-Ocasio, EPA
4. Potential option for EPA to transfer Area 40 to State (DTSC) oversight (out of OU7 and into a new OU10): discussion – Lynn Keller, EPA
5. Regional Board Aerojet Cleanup Overview – Alex MacDonald, RWQCB
6. Next meeting date November 18, 2015 at City Hall.



Agenda Item: 18

Date: October 12, 2015

Subject: Legislative and Regulatory Update

Staff Contact: Dan York, Assistant General Manager

RWA Government Affairs Committee

Prior to the October 11, 2015 deadline for chaptering bills, Governor Brown signed into law two groundwater bills, AB 1390 (Alejo) and SB 226 (Pavley), which will establish an improved process for groundwater adjudication in the state. Both bills take effect on January 1, 2016.

Meeting the first major deadline of the Sustainable Groundwater Management Act (SGMA), the California Department of Water Resources (DWR) released its proposed SGMA Basin Boundary Emergency Regulations on October 8, 2015. DWR is required to adopt emergency regulations by January 1, 2016, that detail the information required to comply with the process for requesting a modification of the existing boundaries established in DWR Bulletin 118. The emergency regulations also identify the methodology and criteria for DWR review and approval of groundwater basin and sub-basin boundary modification requests.

The Regional Water Authority (RWA) has scheduled a tour for legislators and legislative staff to take place on November 2, 2015. Presenting topics during the tour will be staff from RWA, Cities of Roseville, Folsom and Sacramento, County of Sacramento, Placer County Water Agency and Sacramento Suburban Water District. District staff has been invited to present its Conjunctive Use Program. The desired outcome of the tour is provide a better understanding of the Sacramento region's water supply system, investments already made in water supply reliability, conjunctive use, needs to build additional water supply reliability; and how local solutions benefit the statewide system.

State

The water levels in state and federal reservoirs continue to be affected by the drought. Lake Shasta is at 34% of total capacity and 56% of historical average capacity; Oroville Reservoir is at 30% of total capacity and 48% of historical average capacity; Folsom Lake is at 17% of capacity and 31% of its historical average capacity for this time of year.

As California's historic drought continues, Governor Brown signed a number of bills to help water conservation, strengthen groundwater management and improve water quality. For an end

of session summary of bills tracked in 2015 legislative session, see Exhibits 1 and 2. For a listing of recent water related bills signed by the Governor, see Exhibit 3.

Federal Bills of Interest (113th Congress)

- a. **HR 5781 California Emergency Drought Relief Act of 2014** - This bill was recently introduced in the House of Representatives following failure of a Senate compromise bill, pushed by Senator Feinstein, to gain sufficient support. Several Republican Congressmen Valadao, Nunes, McCarthy, McClintock, Calvert, and La Malfa were joined by central valley Democrat Costa in sponsoring the bill. HR 5781 passed the House but is not expected to pass the Senate this term. Adding bill language to a must-pass omnibus spending bill is being considered.
- b. **HR 1837 - San Joaquin Valley Water Reliability Act (Nunes)** -To address certain water-related concerns on the San Joaquin River, and for other purposes.
- c. **HR 4345 - Domestic Fuels Protection Act of 2012 (Shimkus)** - A bill to provide liability protection for claims on the design, manufacture, sale, offer for sale, introduction into commerce, or use of certain fuels and fuel additives, and for other purposes.
- d. **HR 6484 - SAFE Levee Act (Garamendi)** - To amend the Calfed Bay-Delta Authorization Act to authorize the secretary of the Interior to provide assistance to non-Federal interests for levee stability improvements located within the Sacramento- San Joaquin Delta related to Bureau of Reclamation Central Valley Project water deliveries, and for other purposes.

**RWA - WATCHING Only Bills
10/12/2015**

1. Groundwater

AB 939 (Salas D) Groundwater sustainability agencies.

Current Text: Chaptered: 10/9/2015 [pdf](#) [html](#)

Introduced: 2/26/2015

Last Amend: 7/8/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 667, Statutes of 2015.

Location: 10/9/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Existing law requires the Department of Water Resources to identify the extent of monitoring of groundwater elevations that is being undertaken within each groundwater basin or subbasin and to prioritize basins or subbasins as high, medium, low, or very low priority, and requires the initial priority for each basin to be established no later than January 31, 2015. Existing law, the Sustainable Groundwater Management Act, requires all groundwater basins designated as high- or medium-priority basins by the department that are designated as basins subject to critical conditions of overdraft to be managed under a groundwater sustainability plan or coordinated groundwater sustainability plans by January 31, 2020, and requires all other groundwater basins designated as high- or medium-priority basins to be managed under a groundwater sustainability plan or coordinated groundwater sustainability plans by January 31, 2022, except as specified. The act requires a local agency, any time the department changes these basin priorities and elevates a basin to a medium- or high-priority basin after January 31, 2015, to either establish a groundwater sustainability agency within 2 years of reprioritization and adopt a groundwater sustainability plan within 5 years of reprioritization, or to submit an alternative to the department that the local agency believes satisfies the objectives of these provisions within 2 years of reprioritization. This bill would impose the requirement to establish a groundwater sustainability agency or submit an alternative after reprioritization on a local agency or combination of local agencies overlying a groundwater basin. This bill contains other related provisions and other existing laws.

Notes 1: ACWA: Watch

2. Water Supply/Drought

AB 1 (Brown D) Drought: local governments: fines.

Current Text: Chaptered: 7/13/2015 [pdf](#) [html](#)

Introduced: 12/1/2014

Last Amend: 6/16/2015

Status: 7/13/2015-Chaptered by Secretary of State - Chapter 62, Statutes of 2015.

Location: 7/13/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: The California Constitution requires that the water resources of the state be put to beneficial use to the fullest extent of which they are capable and that the waste or unreasonable use or unreasonable method of use of water be prevented. Existing law, the California Emergency Services Act, sets forth the emergency powers of the Governor under its provisions and empowers the Governor to proclaim a state of emergency for certain conditions, including drought. This bill would prohibit a city, county, or city and county from imposing a fine under any ordinance for a failure to water a lawn or having a brown lawn during a period for which the Governor has issued a proclamation of a state of emergency based on drought conditions.

Notes 1: ACWA: Watch

AB 88 (Gomez D) Sales and use taxes: exemption: energy or water efficient home appliances.

Current Text: Vetoed: 10/10/2015 [pdf](#) [html](#)

Introduced: 1/7/2015

Last Amend: 7/15/2015

Status: 10/10/2015-Vetoed by the Governor

Location: 10/10/2015-A. VETOED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Existing sales and use tax laws impose a tax on retailers measured by the gross receipts from their sales of tangible personal property sold at retail in this state, or on the storage, use, or other consumption of tangible personal property purchased from a retailer for storage, use, or other consumption in this state, and specify certain exemptions from the amount of tax imposed. This bill, until January 1, 2021, would exempt from these taxes the gross receipts from the sale of, and the storage, use, or other consumption in this state of, an energy or water efficient home appliance purchased by a public utility that is provided at no cost to a low-income participant in a federal, state, or ratepayer-funded energy or water efficiency program for use by that low-income participant in the energy efficiency program. The bill would define terms for its purposes. This bill contains other related provisions and other existing laws.

Notes 1: ACWA: Watch

AB 723

(Rendon D) Rental property: plumbing fixtures: replacement.

Current Text: Amended: 7/16/2015 [pdf](#) [html](#)

Introduced: 2/25/2015

Last Amend: 7/16/2015

Status: 8/28/2015-Failed Deadline pursuant to Rule 61(a)(11). (Last location was APPR. on 7/16/2015)

Location: 8/28/2015-S. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	2 year	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Existing law requires, on and after January 1, 2017, replacement by the property owner of noncompliant plumbing fixtures in any single-family residential real property. Existing law requires, on and after January 1, 2019, replacement of noncompliant plumbing fixtures in multifamily residential real property and commercial real property, as specified. This bill would require the lease or rental agreement of a single-family residential real property or any portion of a multifamily residential real property or commercial real property that is entered into, renewed, or amended after July 1, 2016, or January 1, 2017, respectively, to be accompanied by a written disclosure stating the property owner's responsibility to replace all noncompliant plumbing fixtures with water-conserving plumbing fixtures on or before January 1, 2017, or January 1, 2019, respectively.

Notes 1: ACWA: Favor

4. Water Quality/Recycled

AB 434

(Garcia, Eduardo D) Drinking water: point-of-entry and point-of-use treatment.

Current Text: Chaptered: 10/9/2015 [pdf](#) [html](#)

Introduced: 2/19/2015

Last Amend: 8/18/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 663, Statutes of 2015.

Location: 10/9/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Existing law, the California Safe Drinking Water Act, imposes on the State Water Resources Control Board various responsibilities and duties relating to providing a dependable, safe supply of drinking water. The act prohibits the state board from issuing a permit to a public water system or amending a valid existing permit to allow the use of point-of-use treatment unless the state board determines that there is no community opposition to the installation of the treatment device. This bill would require the state board to adopt regulations, similar to those previously authorized for adoption by the State Department of Public Health, governing the use of point-of-entry and point-of-use treatment by a public water system in lieu of centralized treatment where it can be demonstrated that centralized treatment is not immediately economically feasible, with specified limitations. The bill would also require the state board to adopt emergency regulations governing the permitted use of point-of-use and point-of-entry treatment by public water systems in lieu of centralized treatment, as specified, and would require that these emergency regulations remain in effect until the earlier of January 1, 2018, or the effective date of the required nonemergency regulations. This bill would also prohibit the

use of point-of-entry treatment absent a state board determination of no community opposition. This bill contains other related provisions.

Notes 1: ACWA: Favor

SB 163 (Hertzberg D) Wastewater treatment: recycled water.

Current Text: Amended: 9/3/2015 [pdf](#) [html](#)

Introduced: 2/4/2015

Last Amend: 9/3/2015

Status: 9/11/2015-Failed Deadline pursuant to Rule 61(a)(14). (Last location was RLS. on 9/8/2015)

Location: 9/11/2015-A. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	2 year	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: The California Constitution requires that the water resources of the state be put to beneficial use to the fullest extent of which they are capable and that the waste or unreasonable use or unreasonable method of use of water be prevented. Existing law declares that the use of potable domestic water for certain nonpotable uses is a waste or an unreasonable use of water if recycled water is available, as determined by the State Water Resources Control Board, and other requirements are met. This bill would declare that the discharge of treated wastewater from ocean outfalls, except in compliance with the bill's provisions, is a waste and unreasonable use of water in light of the cost-effective opportunities to recycle this water for further beneficial use. This bill, on or before January 1, 2026, would require a wastewater treatment facility discharging through an ocean outfall to achieve at least 50% reuse of the facility's actual annual flow, as defined, for beneficial purposes. This bill, on and after January 1, 2036, would prohibit the discharge of treated wastewater through ocean outfalls, except as backup discharge, as defined, and would require a wastewater treatment facility to achieve 100% reuse of the facility's actual annual flow for beneficial purposes. This bill, on and after January 1, 2022, would authorize a NPDES permitholder subject to these requirements to petition the state board for a partial exemption to the above-described requirements. This bill would require the state board to determine, after notice and opportunity for comment, whether the petition demonstrates that the NPDES permitholder cannot comply with these reuse requirements and would provide that an exemption from these reuse requirements is valid for a period of no more than 5 years, at which point the NPDES permitholder is required to reapply for an exemption or comply with these reuse requirements. This bill would prohibit a NPDES permitholder subject to these provisions from being eligible for state grants or loans if they receive a partial exemption to these reuse requirements, unless the state grant or loan is solely for the purpose of achieving compliance with these reuse requirements. This bill contains other related provisions and other existing laws.

5. District Matters

AB 435 (Chang R) California Environmental Protection Agency: Natural Resources Agency: Web casts of public meetings and workshops.

Current Text: Amended: 8/18/2015 [pdf](#) [html](#)

Introduced: 2/19/2015

Last Amend: 8/18/2015

Status: 8/28/2015-Failed Deadline pursuant to Rule 61(a)(11). (Last location was APPR. on 8/27/2015)

Location: 8/28/2015-S. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	2 year	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Existing law establishes the California Environmental Protection Agency and the Natural Resources Agency as agencies in the state government. Existing law, the Bagley-Keene Open Meeting Act, generally requires that all meetings of a state body be open and public. This bill would require that each department, board, and commission of the Natural Resources Agency, except as specified, and each department, board, and office of the California Environmental Protection Agency Web cast all onsite public meetings, in a manner that enables listeners and viewers to ask questions and provide public comment by telephone or electronic communication commensurate with those attending the meeting. The bill would require the agencies to make the recording of a Web cast available online for no less than 3 years for subsequent viewing by interested members of the public.

Notes 1: ACWA: Watch

AB 656 (Garcia, Cristina D) Joint powers agreements: mutual water companies.

Current Text: Chaptered: 9/3/2015 [pdf](#) [html](#)

Introduced: 2/24/2015

Last Amend: 6/22/2015

Status: 9/3/2015-Chaptered by Secretary of State - Chapter 250, Statutes of 2015.

Location: 9/3/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: The Joint Exercise of Powers Act authorizes 2 or more public agencies, as defined, if authorized by their governing bodies, by agreement to jointly exercise any power common to the contracting parties, and specifically authorizes a mutual water company to enter into a joint powers agreement with a public agency for these purposes. Existing law authorizes local public entities, as defined, to enter into a joint powers agreement for the purposes of providing risk-pooling, as specified. This bill would specifically authorize a mutual water company and a public agency to participate in joint powers agreement for the provision of insurance and risk-pooling, technical support, and other similar services for the purpose of reducing risk liability, as specified.

Notes 1: ACWA: Watch

AB 1061 (Gallagher R) Sacramento and San Joaquin Drainage District: powers.

Current Text: Amended: 6/1/2015 [pdf](#) [html](#)

Introduced: 2/26/2015

Last Amend: 6/1/2015

Status: 8/17/2015-In committee: Set, first hearing. Hearing canceled at the request of author.

Location: 7/15/2015-S. APPR.

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Existing law grants to the Central Valley Flood Protection Board the authority to carry out various flood control activities, including the authority to construct, maintain, and operate ditches, canals, pumping plants, and other drainage works. Existing law requires revenues, rents, and proceeds from sale of crops from lands under the control of the board be paid into the State Treasury, as specified, with the balance of the revenues, rents, and proceeds going to the credit of the General Fund. This bill would additionally authorize the district to sell, lease, rent, or otherwise dispose of a right-of-way, easement, or property, as specified, and to take, receive, and apply for purposes of flood control the income, profit, and revenue received from the lease or rental of the property. By adding a new source of revenue to a continuously appropriated fund, this bill would make an appropriation. This bill contains other related provisions and other existing laws.

Notes 1: ACWA: Favor

AB 1164 (Gatto D) Water conservation: drought tolerant landscaping.

Current Text: Chaptered: 10/9/2015 [pdf](#) [html](#)

Introduced: 2/27/2015

Last Amend: 9/4/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 671, Statutes of 2015.

Location: 10/9/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Existing law generally authorizes every city and county, including a charter city, in this state to make and enforce within its limits all local, police, sanitary, and other ordinances and regulations that are not in conflict with general laws. This bill would prohibit a city, including a charter city, county, and city and county, from enacting or enforcing any ordinance or regulation that prohibits the installation of drought tolerant landscaping, synthetic grass, or artificial turf on residential property, as specified. The bill would additionally state that this is an issue of statewide concern. This bill contains other related provisions.

Notes 1: ACWA: Favor

AB 1340 (Chau D) Local government: sale of water utility property.

Current Text: Introduced: 2/27/2015 [pdf](#) [html](#)

Introduced: 2/27/2015

Status: 4/22/2015-In committee: Set, second hearing. Hearing canceled at the request of author.

Location: 3/23/2015-A. L. GOV.

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Existing law provides a procedure that is generally applicable for a city to sell its real property. Existing law also establishes specific procedures for the sale of public utility property owned by a municipal corporation with certain provisions applicable to the sale of property of a water utility. This bill would authorize the City of Montebello to sell all or part of its water utility pursuant to the procedures that are generally applicable to a sale of real property by a city, if certain requirements are met. This bill contains other related provisions.

Notes 1: ACWA: Watch

SB 37

(Nielsen R) Water: floods.

Current Text: Amended: 2/12/2015 [pdf](#) [html](#)

Introduced: 12/1/2014

Last Amend: 2/12/2015

Status: 5/14/2015-Referred to Com. on W., P., & W.

Location: 5/14/2015-A. W.,P. & W.

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Existing law authorizes the Department of Water Resources to administer funding, from various sources, for flood risk reduction projects. This bill would authorize the Department of Water Resources to provide reimbursement to funding recipients that execute a funding agreement under the Urban Flood Risk Reduction Projects program for expenditures associated with continued funding of a project initiated under the Early Implementation Project program and incurred after July 1, 2014, and before issuance of a funding commitment, or amendment or execution of the funding agreement, but no later than December 31, 2015. This bill contains other related provisions.

Notes 1: ACWA: Favor

SB 184

(Committee on Governance and Finance) Local government: omnibus bill.

Current Text: Chaptered: 9/4/2015 [pdf](#) [html](#)

Introduced: 2/9/2015

Last Amend: 6/15/2015

Status: 9/4/2015-Chaptered by Secretary of State. Chapter 269, Statutes of 2015.

Location: 9/4/2015-S. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Existing law authorizes specified local entities, including cities, counties, special districts, and other authorized public corporations, to collect fees, tolls, rates, rentals, or other charges for water, sanitation, storm drainage, or sewerage system services and facilities. Under existing law, a local entity may collect these charges on the property tax roll at the same time and in the same manner as its general property taxes. If the entity collects these charges in this way, existing law requires the entity to prepare and file with its clerk or secretary a report describing each parcel of property receiving the above-described services and the amount charged. Existing law requires the clerk or secretary to annually file the report with the auditor. Existing law defines "clerk" for these purposes to mean the official clerk or secretary of the entity. Existing law also authorizes these local entities to fix fees or charges for the privilege of connecting parcels of property to their sanitation or sewerage facilities, subject to specified procedures. Existing law requires the legislative body of the local entity to annually file with the auditor a list of lots or parcels of land subject to these fees or charges and the amounts of the installments of the fees or charges to be entered against the affected lots or parcels of land. Existing law requires the auditor to enter on the assessment roll the amounts of installments of these fees or charges. Existing law defines the auditor, for the purposes of these provisions, as the financial officer of the local entity. This bill would instead define "clerk" to mean the clerk of the legislative body or secretary of the entity. The bill would clarify that the above-described provisions relating to the authority and duties of the auditor apply only to the county auditor. The bill would also make technical, nonsubstantive changes to these provisions. This bill contains other related provisions and other existing laws.

Notes 1: ACWA: Favor

SB 188

(Hancock D) Municipal utility district: utility charges: delinquencies.

Current Text: Chaptered: 9/4/2015 [pdf](#) [html](#)

Introduced: 2/9/2015

Last Amend: 4/14/2015

Status: 9/4/2015-Chaptered by Secretary of State. Chapter 270, Statutes of 2015.

Location: 9/4/2015-S. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: The existing Municipal Utility District Act authorizes the formation of a municipal utility district. The act authorizes a district to acquire, construct, own, operate, control, or use works for supplying the inhabitants of the district and public agencies with light, water, power, heat, transportation, telephone service, or other means of communication, or means for the collection, treatment, or disposition of garbage, sewage, or refuse matter. The act authorizes a municipal utility district, by resolution or ordinance, to require the owner of record of privately owned real property within the district to pay the fees, tolls, rates, rentals, or other charges for certain utility services rendered to a lessee, tenant, or subtenant, and provides that those charges that have become delinquent, together with interest and penalties, are a lien on the property when a certificate is filed by the district in the office of the county recorder and that the lien has the force, effect, and priority of a judgment lien. This bill would extend the operation of these provisions indefinitely. By requiring county auditors and recorders to undertake certain actions in response to the exercise of collection measures by a municipal utility district, the bill would impose a state-mandated local program. This bill contains other related provisions and other existing laws.

Notes 1: ACWA: Favor

SB 551

(Wolk D) State water policy: water and energy efficiency.

Current Text: Amended: 7/6/2015 [pdf](#) [html](#)

Introduced: 2/26/2015

Last Amend: 7/6/2015

Status: 8/28/2015-Failed Deadline pursuant to Rule 61(a)(11). (Last location was APPR. on 8/27/2015)

Location: 8/28/2015-A. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	2 year	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: The California Constitution requires the reasonable and beneficial use of water. Existing law establishes various state water policies, including the policy that the water resources of the state be put to beneficial use to the fullest extent of which they are capable. This bill would declare the policy of the state that water use and water treatment shall operate in a manner that is as energy efficient as is feasible and energy use and generation shall operate in a manner that is as water efficient as is feasible. This bill would require all relevant state agencies to consider this state policy when revising, adopting, or establishing policies, regulations, and grant criteria when pertinent to these uses of water and energy. This bill contains other existing laws.

Notes 1: ACWA: Watch

6. CEQA and Other Water Related

AB 142

(Bigelow R) Wild and scenic rivers: Mokelumne River.

Current Text: Chaptered: 10/9/2015 [pdf](#) [html](#)

Introduced: 1/12/2015

Last Amend: 9/4/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 661, Statutes of 2015.

Location: 10/9/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Existing law, the California Wild and Scenic Rivers Act, provides for a system of classification of those rivers or segments of rivers in the state that are designated as wild, scenic, or recreational rivers, for purposes of preserving the highest and most beneficial use of those rivers. The

act requires the Secretary of the Natural Resources Agency to study and submit to the Governor and the Legislature a report that analyzes the suitability or nonsuitability for addition to the system of rivers or segments of rivers that are designated by the Legislature as potential additions to the system, and requires that each report contain specified information and recommendations with respect to the proposed designation. This bill would require the secretary, in a report analyzing the suitability or nonsuitability of a proposed designation of the Mokelumne River, its tributaries, or segments thereof as additions to the system, to consider the potential effects of the proposed designation on future water requirements, as specified, and the effects of climate change on river values and current and projected water supplies, and to consider other factors. The bill would include any segment of the Mokelumne River designated for potential addition within certain protections afforded to wild and scenic rivers until the completion of the study period and the implementation of any recommendation to add the segment of the Mokelumne River to the system, or December 31, 2021, whichever occurs first. This bill contains other related provisions and other existing laws.

Notes 1: ACWA: Favor

AB 954 (Mathis R) Water and Wastewater Loan and Grant Program.

Current Text: Amended: 7/6/2015 [pdf](#) [html](#)

Introduced: 2/26/2015

Last Amend: 7/6/2015

Status: 8/27/2015-In committee: Held under submission.

Location: 8/27/2015-S. APPR.

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Existing law, the Safe Drinking Water State Revolving Fund Law of 1997, establishes the Safe Drinking Water State Revolving Fund to provide grants or revolving fund loans for the design and construction of projects for public water systems that will enable those systems to meet safe drinking water standards. This bill would require the State Water Resources Control Board to establish a program to provide low-interest loans and grants to local agencies for low-interest loans and grants to eligible applicants for specified purposes relating to drinking water and wastewater treatment. This bill would create the Water and Wastewater Loan and Grant Fund and provide that the moneys in this fund are available, upon appropriation by the Legislature, to the board for expenditure for the program. This bill would transfer to the Water and Wastewater Loan and Grant Fund \$10,000,000 from the General Fund. This bill contains other related provisions.

Notes 1: ACWA: Watch

SB 122 (Jackson D) California Environmental Quality Act: record of proceedings.

Current Text: Amended: 6/1/2015 [pdf](#) [html](#)

Introduced: 1/15/2015

Last Amend: 6/1/2015

Status: 8/28/2015-Failed Deadline pursuant to Rule 61(a)(11). (Last location was APPR. SUSPENSE FILE on 7/15/2015)

Location: 8/28/2015-A. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	2 year	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: The California Environmental Quality Act (CEQA) requires a lead agency, as defined, to prepare, or cause to be prepared, and certify the completion of, an environmental impact report (EIR) on a project that it proposes to carry out or approve that may have a significant effect on the environment or to adopt a negative declaration if it finds that the project will not have that effect. CEQA also requires a lead agency to prepare a mitigated negative declaration for a project that may have a significant effect on the environment if revisions in the project would avoid or mitigate that effect and there is no substantial evidence that the project, as revised, would have a significant effect on the environment. CEQA establishes a procedure for the preparation and certification of the record of proceedings upon the filing of an action or proceeding challenging a lead agency's action on the grounds of noncompliance with CEQA. This bill would require the lead agency, at the request of a project applicant and consent of the lead agency, to prepare a record of proceedings concurrently with the preparation of a negative declaration, mitigated negative declaration, EIR, or other environmental document for projects. This bill contains other related provisions and other existing laws.

Notes 1: ACWA: Not Favor Unless Amended

SB 223 (Galgiani D) Division of Boating and Waterways: oversight committee: invasive aquatic plants.

Current Text: Amended: 4/30/2015 [pdf](#) [html](#)

Introduced: 2/13/2015

Last Amend: 4/30/2015

Status: 8/27/2015-August 27 hearing: Held in committee and under submission.

Location: 8/27/2015-A. APPR.

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Existing law designates the Division of Boating and Waterways within the Department of Parks and Recreation as the lead agency of the state for purposes of cooperating with other state, local, and federal agencies in identifying, detecting, controlling, and administering programs to manage invasive aquatic plants in the Sacramento-San Joaquin Delta, its tributaries, and the Suisun Marsh, and prescribes the duties of the division with regard to the management and control or eradication of those plants. This bill would require the division, no later than 90 days after the effective date of the bill, to establish, and designate and provide staff support to, an advisory and oversight committee to evaluate and monitor the activities of the division relating to the management and control or eradication of those plants. The bill would require the membership of the advisory and oversight committee to include an equitable number of representatives from specified interests and would require the advisory and oversight committee to meet, at a minimum, twice per year and communicate any findings or recommendations to the division. This bill contains other related provisions.

Notes 1: ACWA: Watch

SB 248 (Pavley D) Oil and gas.

Current Text: Amended: 8/17/2015 [pdf](#) [html](#)

Introduced: 2/18/2015

Last Amend: 8/17/2015

Status: 8/28/2015-Failed Deadline pursuant to Rule 61(a)(11). (Last location was APPR. SUSPENSE FILE on 8/19/2015)

Location: 8/28/2015-A. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	2 year	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Existing law requires the Division of Oil, Gas, and Geothermal Resources in the Department of Conservation to regulate the drilling, operation, maintenance, and abandonment of wells and the operation, maintenance, and removal or abandonment of tanks and facilities attendant to oil and gas production. Existing law requires the State Oil and Gas Supervisor, on or before the first day of October of each year, to make public a report on specified information. This bill would require the supervisor to establish an inspection program for all activities regulated pursuant to these provisions and would require the total number of inspections and results of the inspections to be included in the above-referenced report. The bill would require the division's regulations, field rules, notices, manuals, and other requirements to be reviewed and revised, as needed, through a public process at least once every 10 years. This bill contains other related provisions and other existing laws.

Notes 1: ACWA: Favor

SB 317 (De León D) The Safe Neighborhood Parks, Rivers, and Coastal Protection Bond Act of 2016.

Current Text: Amended: 5/5/2015 [pdf](#) [html](#)

Introduced: 2/23/2015

Last Amend: 5/5/2015

Status: 9/11/2015-Ordered to inactive file on request of Senator Mitchell.

Location: 9/11/2015-S. INACTIVE FILE

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Under existing law, various measures have been approved by the voters to provide funds for park, river, and coastal protections and programs. This bill would enact the Safe Neighborhood Parks, Rivers, and Coastal Protection Bond Act of 2016, which, if adopted by the voters at the November 8, 2016, statewide general election, would authorize the issuance of bonds in the total amount of \$2,450,000,000 pursuant to the State General Obligation Bond Law to finance a safe neighborhood parks, rivers, and coastal protection program. This bill contains other related provisions.

Notes 1: ACWA: Favor

SB 471 (Pavley D) Water, energy, and reduction of greenhouse gas emissions: planning.

Current Text: Amended: 8/17/2015 [pdf](#) [html](#)

Introduced: 2/26/2015

Last Amend: 8/17/2015

Status: 8/28/2015-Failed Deadline pursuant to Rule 61(a)(11). (Last location was APPR. SUSPENSE FILE on 8/26/2015)

Location: 8/28/2015-A. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	2 year	Floor	Conf.	Enrolled	Vetoed	Chaptered	
1st House				2nd House				Conc.				

Summary: The California Global Warming Solutions Act of 2006 designates the State Air Resources Board as the state agency charged with monitoring and regulating sources of emissions of greenhouse gases. Existing law requires all moneys, except for fines and penalties, collected by the State Air Resources Board from the auction or sale of allowances as part of a market-based compliance mechanism relative to reduction of greenhouse gas emissions, commonly known as cap and trade revenues, to be deposited in the Greenhouse Gas Reduction Fund, and to be used, upon appropriation by the Legislature, for specified purposes, including the reduction of greenhouse gas emissions associated with water use and supply. This bill would include reduction of greenhouse gas emissions associated with water treatment among the investments that are eligible for funding from the Greenhouse Gas Reduction Fund. The bill would also make legislative findings and declarations, and a statement of legislative intent, with regard to the nexus between water and energy and water and reduction of greenhouse gas emissions. This bill contains other related provisions.

Notes 1: ACWA: Support

Total Measures: 22

Total Tracking Forms: 22

**RWA - MED/HIGH Priority Bills
10/12/2015**

AB 149 (Chávez R) Urban water management plans.

Introduced: 1/15/2015

Last Amend: 6/11/2015

Status: 7/6/2015-Chaptered by Secretary of State - Chapter 49, Statutes of 2015.

Location: 7/6/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: The Urban Water Management Planning Act requires an urban water supplier to submit to the Department of Water Resources a copy of its plan no later than 30 days after adoption and requires the department to prepare and submit to the Legislature, on or before December 31, in the years ending in 6 and 1, a report summarizing the status of plans adopted pursuant to the act. This bill would require each urban water supplier to update and submit its 2020 plan to the department by July 1, 2021, and would require the department to submit the report to the Legislature for the 2015 plans by July 1, 2017, and the report for the 2020 plans by July 1, 2022.

Position **Priority**
Support Medium

Notes 1: ACWA: Favor

AB 349 (Gonzalez D) Common interest developments: property use and maintenance.

Introduced: 2/17/2015

Last Amend: 8/17/2015

Status: 9/4/2015-Chaptered by Secretary of State - Chapter 266, Statutes of 2015.

Location: 9/4/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Current law makes void and unenforceable any provision of the governing documents or architectural or landscaping guidelines or policies that prohibits use of low water-using plants, or prohibits or restricts compliance with water-efficient landscape ordinances or regulations on the use of water, as specified. This bill would make void and unenforceable any provision of the governing documents or architectural or landscaping guidelines or policies that prohibits use of artificial turf or any other synthetic surface that resembles grass. This bill contains other existing laws.

Position **Priority**
Support Medium

Notes 1: ACWA: Favor

AB 401 (Dodd D) Low-Income Water Rate Assistance Program.

Introduced: 2/19/2015

Last Amend: 9/2/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 662, Statutes of 2015.

Location: 10/9/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would require the State Water Resources Control Board, no later than January 1, 2018, in collaboration with the State Board of Equalization and relevant stakeholders, to develop a plan for the funding and implementation of the Low-Income Water Rate Assistance Program, which would include specified elements. The bill would permit the board to consider existing rate assistance programs authorized by the commission in developing the plan and would authorize the plan to include recommendations for other cost-effective methods of offering assistance to low-income water customers.

Position **Priority**
Watch Medium

Notes 1: ACWA: Watch

AB 453 (Bigelow R) Groundwater management.

Introduced: 2/23/2015

Last Amend: 9/4/2015

Status: 9/11/2015-Failed Deadline pursuant to Rule 61(a)(14). (Last location was RLS. on 9/8/2015)

Location: 9/11/2015-S. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	2 year	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would authorize, until a groundwater sustainability plan is adopted, a local agency that has adopted a groundwater management plan to impose fees on the extraction of groundwater from the basin to fund costs of groundwater management and to collect groundwater extraction information, as long as a groundwater management plan adopted before January 1, 2015, is in effect. This bill would require a local agency to specify in an ordinance or resolution imposing a fee on the extraction of groundwater from the basin that the fee does not apply to any period after adoption of a groundwater sustainability plan. This bill contains other existing laws.

Position **Priority**
Support High

Notes 1: ACWA: Favor

AB 585 (Melendez R) Outdoor Water Efficiency Act of 2015: personal income tax credits: outdoor water efficiency.

Introduced: 2/24/2015

Last Amend: 7/15/2015

Status: 8/27/2015-In committee: Held under submission.

Location: 8/27/2015-A. APPR.

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Would, for taxable years beginning on or after January 1, 2016, and before January 1, 2021, allow a credit equal to 25% of the amount paid or incurred by a qualified taxpayer for water-efficiency improvements, as defined, on qualified real property in this state, not to exceed \$2,500 per taxable year, as specified. The bill would limit the cumulative amount of the credit to \$2,500 for each qualified real property for all taxable years.

Position **Priority**
Support Medium

Notes 1: ACWA: Favor

AB 603 (Salas D) Income taxes: Every Drop Counts Tax Credit.

Introduced: 2/24/2015

Last Amend: 5/21/2015

Status: 5/28/2015-Joint Rule 62(a), file notice suspended. (Page 1613.) In committee: Held under submission.

Location: 5/27/2015-A. APPR. SUSPENSE FILE

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Would, under the Personal Income Tax Law and the Corporation Tax Law, for taxable years beginning on and after January 1 2016, and before January 1, 2021, or an earlier date in the event of a specified occurrence, allow a credit to a taxpayer participating in a lawn replacement rebate program, as defined, in an amount equal to 25% of the costs paid or incurred by the taxpayer to replace conventional lawn on the qualified taxpayer's property during that taxable year, not to exceed \$1,500, as specified.

Position **Priority**
Support Medium

Notes 1: ACWA: Favor

AB 606 (Levine D) Water conservation.

Introduced: 2/24/2015

Last Amend: 8/25/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 665, Statutes of 2015.

Location: 10/9/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf.	Enrolled	Vetoed	Chaptered
1st House				2nd House				Conc.			

Summary: Would, when a state agency builds upon state-owned real property, purchases real property, or replaces landscaping or irrigation, require the state agency to reduce water consumption and increase water efficiencies for that property where feasible, as defined, through specified water efficiency measures. The bill would exempt from its requirements state-owned real property that is leased for agricultural purposes. This bill contains other existing laws.

Position **Priority**
Support Medium

Notes 1: ACWA: Favor

AB 617 (Perea D) Groundwater.

Introduced: 2/24/2015

Last Amend: 9/4/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 666, Statutes of 2015.

Location: 10/9/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would define "in-lieu use" for the purposes of the Sustainable Groundwater Management Act and would provide that, where appropriate, measures addressing in-lieu use shall be included in a groundwater sustainability plan. This bill contains other related provisions and other existing laws.

Position **Priority**
Support if High
Amended

Notes 1: ACWA: Support

AB 935 (Salas D) Water projects.

Introduced: 2/26/2015

Last Amend: 9/4/2015

Status: 9/11/2015-Failed Deadline pursuant to Rule 61(a)(14). (Last location was INACTIVE FILE on 9/10/2015)

Location: 9/11/2015-S. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	2 year	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House								

Summary: Current law establishes in the Natural Resources Agency the Department of Water Resources, which manages and undertakes planning with regard to water resources in the state. This bill would require, upon appropriation by the Legislature, the department to provide funding for certain projects, provided that certain conditions are met.

Position **Priority**
Watch High

Notes 1: ACWA: Watch

AB 937 (Salas D) Groundwater planning: technical assistance: disadvantaged communities.

Introduced: 2/26/2015

Last Amend: 7/16/2015

Status: 8/28/2015-Failed Deadline pursuant to Rule 61(a)(11). (Last location was APPR. on 8/27/2015)

Location: 8/28/2015-S. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	2 year	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would require the Department of Water Resources to provide technical assistance to disadvantaged communities so that they may participate in groundwater planning, including, but not limited to, plans for regional groundwater banking, with any county or other local agency.

Position **Priority**
Watch High

Notes 1: ACWA: Favor

AB 1139 (Campos D) Personal income taxes: credit: turf removal.

Introduced: 2/27/2015

Last Amend: 3/26/2015

Status: 5/4/2015-In committee: Set, first hearing. Hearing canceled at the request of author.

Location: 4/6/2015-A. REV. & TAX

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: The Personal Income Tax Law allows various credits against the taxes imposed by that law. This bill would, for taxable years beginning on and after January 1, 2015, allow a credit to a taxpayer participating in a lawn replacement program, as defined, in an amount equal to \$2 per square foot of conventional lawn removed from the taxpayer's property, up to \$50,000 per taxable year, as provided. The bill would make findings and declarations in this regard.

Position **Priority**
Watch Medium

Notes 1: ACWA: Favor

AB 1201 (Salas D) Fish and wildlife: Sacramento-San Joaquin Delta: predation by nonnative species.

Introduced: 2/27/2015

Last Amend: 8/17/2015

Status: 8/28/2015-Failed Deadline pursuant to Rule 61(a)(11). (Last location was APPR. on 8/27/2015)

Location: 8/28/2015-S. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	2 year	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would require the Department of Fish and Wildlife, by June 30, 2016, to develop a science-based plan that addresses predation by nonnative species upon species of fish listed pursuant to the California Endangered Species Act that reside all or a portion of their lives in the Sacramento-San Joaquin Delta and that considers predation reduction for all Chinook salmon and other native species not listed pursuant to the act.

Position	Priority
Watch	Medium

Notes 1: ACWA: Support

AB 1242 (Gray D) Water quality and storage.

Introduced: 2/27/2015

Last Amend: 9/1/2015

Status: 9/11/2015-Failed Deadline pursuant to Rule 61(a)(14). (Last location was THIRD READING on 9/2/2015)

Location: 9/11/2015-S. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	2 year	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would require the Department of Water Resources to increase statewide water storage capacity by 25% by January 1, 2025, and 50% by January 1, 2050, as specified. The bill would require the department, on or before January 1, 2017, to identify the current statewide water storage capacity and prepare a strategy and implementation plan to achieve those expansions in statewide water storage capacity, and would require the department to update the strategy and implementation plan on January 1, 2018, and every 2 years thereafter, until January 1, 2050.

Position	Priority
Support	High

Notes 1: ACWA: Favor

AB 1376 (Perea D) State Water Resources Control Board: appropriation: drought-related drinking water projects.

Introduced: 2/27/2015

Last Amend: 3/26/2015

Status: 4/22/2015-In committee: Set, first hearing. Hearing canceled at the request of author.

Location: 4/6/2015-A. W.,P. & W.

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would appropriate \$15,000,000 from the General Fund to the State Water Resources Control Board, for expenditure until June 30, 2016, for grants of up to \$500,000 per project for public water systems to address drought-related drinking water emergencies or threatened emergencies in the state. The bill would require the state board to make every effort to use other funds available to address drinking water emergencies, including federal funds made available for the drought, prior to using the funds appropriated pursuant to these provisions.

Position	Priority
Watch	Medium

Notes 1: ACWA: Favor

AB 1390 (Alejo D) Groundwater: comprehensive adjudication.

Introduced: 2/27/2015

Last Amend: 9/4/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 672, Statutes of 2015.

Location: 10/9/2015-A. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: The Sustainable Groundwater Management Act, which applies to all groundwater basins in the state, all basins designated as high- or medium-priority basins by the Department of Water Resources as basins that are subject to critical conditions of overdraft, as specified, are required to be managed under a groundwater sustainability plan or coordinated groundwater sustainability plans by January 31, 2020. This bill would establish special procedures for a comprehensive adjudication, which is defined as an action filed in superior court to comprehensively determine rights to extract groundwater in a basin.

Position **Priority**
Watch High

Notes 1: ACWA: Support If Amended

SB 7

(Wolk D) Housing: water meters: multiunit structures.

Introduced: 12/1/2014

Last Amend: 9/4/2015

Status: 9/11/2015-Failed Deadline pursuant to Rule 61(a)(14). (Last location was UNFINISHED BUSINESS on 9/8/2015)

Location: 9/11/2015-A. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	2 year	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would express the intent of the Legislature to encourage the conservation of water in multifamily residential rental buildings through means either within the landlord's or the tenant's control, and to ensure that the practices involving the submetering of dwelling units for water service are just and reasonable, and include appropriate safeguards for both tenants and landlords. This bill contains other related provisions and other existing laws.

Position **Priority**
Watch High

Notes 1: ACWA: Watch

SB 13

(Pavley D) Groundwater.

Introduced: 12/1/2014

Last Amend: 7/6/2015

Status: 9/3/2015-Chaptered by Secretary of State - Chapter 255, Statutes of 2015.

Location: 9/3/2015-S. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would specify that the State Water Resources Control Board is authorized to designate a high- or medium-priority basin as a probationary basin. This bill would provide a local agency or groundwater sustainability agency 90 or 180 days, as prescribed, to remedy certain deficiencies that caused the board to designate the basin as a probationary basin. This bill would authorize the board to develop an interim plan for certain probationary basins one year after the designation of the basin as a probationary basin.

Position **Priority**
Watch High

Notes 1: ACWA: Favor

SB 20

(Pavley D) California Water Resiliency Investment Act.

Introduced: 12/1/2014

Last Amend: 8/26/2015

Status: 8/28/2015-Failed Deadline pursuant to Rule 61(a)(11). (Last location was W.,P. & W. on 8/26/2015)

Location: 8/28/2015-A. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	2 year	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Under current law, various measures provide funding for water resources projects, facilities, and programs. This bill would create the California Water Resiliency Investment Fund in the State Treasury and provide that moneys in the fund are available, upon appropriation by the Legislature, for the purpose of providing a more dependable water supply for California. This bill would create various accounts within the fund for prescribed purposes.

Position **Priority**
Watch High

Notes 1: ACWA: Watch

SB 144

(Pan D) Water development projects: Sacramento-San Joaquin watersheds.

Introduced: 1/27/2015

Last Amend: 4/6/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 674, Statutes of 2015.

Location: 10/9/2015-S. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Current law provides for state cooperation with the federal government in the construction

of specified flood control projects. Current law adopts and authorizes federally adopted and approved projects, including a 200-year level of flood protection in the Natomas Basin, in areas within the City of Sacramento and the Counties of Sacramento and Sutter. This bill would describe the Natomas Basin flood protection project as further modified by a specified report adopted by Congress. The bill would make technical, nonsubstantive changes.

Position **Priority**
Support Medium

Notes 1: ACWA: Favor

SB 208 (Lara D) Integrated regional water management plans: grants: advanced payment.

Introduced: 2/11/2015

Last Amend: 6/1/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 675, Statutes of 2015.

Location: 10/9/2015-S. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would require a regional water management group, within 90 days of notice that a grant has been awarded, to provide the Department of Water Resources with a list of projects to be funded by the grant funds where the project proponent is a nonprofit organization, as defined, or a disadvantaged community, as defined, or the project benefits a disadvantaged community. This bill would require the department, within 60 days of receiving the project information, to provide advanced payment of 50% of the grant award for those projects that satisfy specified criteria and would require the advanced funds to be handled, as prescribed.

Position **Priority**
Support if Amended High

Notes 1: ACWA: Favor

SB 226 (Pavley D) Sustainable Groundwater Management Act: groundwater adjudication.

Introduced: 2/13/2015

Last Amend: 9/3/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 676, Statutes of 2015.

Location: 10/9/2015-S. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Current law authorizes a court to order a reference to the State Water Resources Control Board, as referee, of any and all issues involved in a suit brought in any court of competent jurisdiction in this state for determination of rights to water. This bill would authorize the state to intervene in a comprehensive adjudication conducted as specified in AB 1390 of the 2015- 16 Regular Session. This bill contains other related provisions and other existing laws.

Position **Priority**
Watch High

Notes 1: ACWA: Not Favor Unless Amended

SB 385 (Hueso D) Primary drinking water standards: hexavalent chromium: compliance plan.

Introduced: 2/24/2015

Last Amend: 6/18/2015

Status: 9/4/2015-Chaptered by Secretary of State. Chapter 272, Statutes of 2015.

Location: 9/4/2015-S. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered
1st House				2nd House							

Summary: Would authorize, until January 1, 2020, the State Water Resources Control Board, at the request of a public water system that prepares and submits a compliance plan to the state board, to grant a period of time to achieve compliance with the primary drinking water standard for hexavalent chromium by approving the compliance plan, as prescribed. This bill contains other related provisions and other existing laws.

Position **Priority**
Support High

Notes 1: ACWA: Support

SB 552 (Wolk D) Public water systems: disadvantaged communities: consolidation or extension of service.

Introduced: 2/26/2015

Last Amend: 7/7/2015

Status: 7/17/2015-Failed Deadline pursuant to Rule 61(a)(10). (Last location was RLS. on 7/9/2015)

Location: 7/17/2015-A. 2 YEAR

Desk	Policy	Fiscal	Floor	Desk	2 year	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered	
1st House				2nd House								

Summary: Current law, for purposes of the California Safe Drinking Water Act, defines "disadvantaged community" to mean a disadvantaged community that is in an unincorporated area or is served by a mutual water company. This bill would allow a community to be a "disadvantaged community" if the community is in a mobilehome park even if it is not in an unincorporated area or served by a mutual water company.

Position **Priority**
Medium

Notes 1: ACWA: Support if Amended

SB 555 (Wolk D) Urban retail water suppliers: water loss management.

Introduced: 2/26/2015

Last Amend: 9/1/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 679, Statutes of 2015.

Location: 10/9/2015-S. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered	
1st House				2nd House								

Summary: Would require each urban retail water supplier, on or before October 1, 2017, and on or before October 1 of each year thereafter, to submit a completed and validated water loss audit report for the previous calendar year or previous fiscal year as prescribed by rules adopted by the Department of Water Resources on or before January 1, 2017, and updated as provided. The bill would require the department to post all validated water loss audit reports on its Internet Web site in a manner that allows for comparisons across water suppliers and to make these reports available for public viewing.

Position **Priority**
Neutral High

Notes 1: ACWA: Watch

SB 664 (Hertzberg D) Water: urban water management planning.

Introduced: 2/27/2015

Last Amend: 6/24/2015

Status: 10/9/2015-Chaptered by Secretary of State - Chapter 681, Statutes of 2015.

Location: 10/9/2015-S. CHAPTERED

Desk	Policy	Fiscal	Floor	Desk	Policy	Fiscal	Floor	Conf. Conc.	Enrolled	Vetoed	Chaptered	
1st House				2nd House								

Summary: Would require an urban water supplier to include within its plan, beginning January 1, 2020, a seismic risk assessment and mitigation plan to assess the vulnerability of each of the various facilities of a water system and mitigate those vulnerabilities. This bill would authorize an urban water supplier to comply with this requirement by submitting a copy of the most recent adopted local hazard mitigation plan or multihazard mitigation plan under specified federal law that addresses seismic risk.

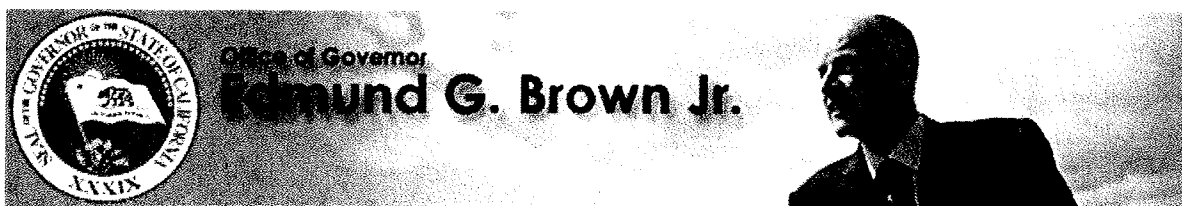
Position **Priority**
Watch Medium

Notes 1: ACWA: Oppose Unless Amended

Total Measures: 25

Total Tracking Forms: 25

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FOR IMMEDIATE RELEASE:

Contact: Governor's Press Office

Friday, October 9, 2015

(916) 445-4571

Governor Brown Signs Water Legislation

SACRAMENTO – As California's historic drought continues, Governor Edmund G. Brown Jr. today announced that he has signed the following bills to help boost water conservation, strengthen groundwater management and improve water quality:

- AB 142 by Assemblymember Frank Bigelow (R-O'Neals) – Wild and scenic rivers: Mokelumne River.
- AB 401 by Assemblymember Bill Dodd (D-Napa) – Low-Income Water Rate Assistance Program. A signing message can be found [here](#).
- AB 434 by Assemblymember Eduardo Garcia (D-Coachella) – Drinking water: point-of-entry and point-of-use treatment.
- AB 496 by Assemblymember Anthony Rendon (D-Lakewood) – Pupil nutrition: fresh drinking water: funding.
- AB 530 by Assemblymember Anthony Rendon (D-Lakewood) – Lower Los Angeles River Working Group.
- AB 606 by Assemblymember Marc B. Levine (D-San Rafael) – Water conservation.
- AB 617 by Assemblymember Henry T. Perea (D-Fresno) – Groundwater.
- AB 939 by Assemblymember Rudy Salas Jr. (D-Bakersfield) – Groundwater sustainability agencies.
- AB 965 by Assemblymember Eduardo Garcia (D-Coachella) – California and Mexico border: water resources improvement.
- AB 1077 by Assemblymember Chris Holden (D-Pasadena) – Mutual water companies: open meetings.
- AB 1119 by Assemblymember Anthony Rendon (D-Lakewood) – Public utilities: municipal corporations: rights of way.
- AB 1164 by Assemblymember Mike Gatto (D-Glendale) – Water conservation: drought tolerant landscaping.
- AB 1390 by Assemblymember Luis Alejo (D-Watsonville) – Groundwater: comprehensive adjudication.
- AB 1531 by the Committee on Environmental Safety and Toxic Materials – State Water Resources Control Board.
- SB 144 by Senator Richard Pan (D-Sacramento) – Water development projects: Sacramento-San Joaquin watersheds.
- SB 208 by Senator Ricardo Lara (D-Bell Gardens) – Integrated regional water management plans: grants: advanced payment.
- SB 226 by Senator Fran Pavley (D-Agoura Hills) – Sustainable Groundwater Management Act: groundwater adjudication.

- SB 355 by Senator Ricardo Lara (D-Bell Gardens) – San Gabriel and Lower Los Angeles Rivers and Mountains Conservancy.
- SB 485 by Senator Ed Hernandez (D-Azusa) – County of Los Angeles: sanitation districts.
- SB 555 by Senator Lois Wolk (D-Davis) – Urban retail water suppliers: water loss management.
- SB 637 by Senator Ben Allen (D-Santa Monica) – Suction dredge mining: permits.
- SB 664 by Senator Robert M. Hertzberg (D-Van Nuys) – Water: urban water management planning.
- SB 758 by Senator Marty Block (D-San Diego) – Atmospheric Rivers: Research, Mitigation, and Climate Forecasting Program.
- SB 798 by the Committee on Natural Resources and Water – Natural resources.

For full text of the bills, visit: <http://leginfo.legislature.ca.gov>

California's Drought Response

In April, Governor Brown announced the first-ever 25 percent statewide mandatory water reductions and a series of actions to help save water, increase enforcement to prevent wasteful water use, streamline the state's drought response and invest in new technologies that will make California more drought resilient. Californians have responded with unprecedented conservation efforts, exceeding the Governor's water reduction order in each of the past three months.

To date, guided by the California Water Action Plan, the state has committed hundreds of millions of dollars – including Water Bond funds – to emergency drought relief, disaster assistance, water conservation and infrastructure projects across the state. Efforts are also underway to establish a framework for sustainable, local groundwater management for the first time in California's history based on legislation signed by Governor Brown last year.

Throughout the year, Governor Brown has convened mayors, business leaders and top agricultural, environmental and urban water agency officials from across California to discuss the state's drought and conservation efforts.

To learn more about the state's drought response, visit: Drought.CA.Gov. Every Californian should take steps to conserve water. Find out how at SaveOurWater.com.

###

Governor Edmund G. Brown Jr.

State Capitol Building
Sacramento, CA 95814

Forward View in Browser



Agenda Item: 19

Date: October 5, 2015

Subject: Human Resources Quarterly Report

Staff Contact: Lynne Yost, Human Resources Coordinator

1. Current Statistics

Full Time Employees:	60
Temporary Employees:	6
Full Time Vacancies:	2

Current temporary employees include four water conservation representatives, one engineering intern and one office assistant.

Current full-time vacancies include Production Operator I/II and Assistant/Associate Engineer.

2. Completed/Ongoing Work of Note

- a) Completed hiring process and orientation for new Distribution Operator I Chad Jividen following July recruitment.
- b) Completed hiring process and orientations for the first two Water Conservation Representatives selected to fill available positions for the 2015 program; subsequently completed hiring process and orientations for two more candidates when additional positions were approved by the Board.
- c) Completed exit interviews for departing Production Foreman, Assistant Engineer and two engineering interns.
- d) Completed promotion of former Production Operator II Shawn Shedenhelm to Production Foreman effective September 28, 2015; announced recruitment for Production Operator position.
- e) Implemented CalPERS health insurance resolutions passed by the Board and notified all employees and retirees of the “cap” on the District’s contribution to premiums effective 1/1/16.
- f) Completed 2015 Flexible Spending Plan Discrimination Testing; as previously reported to the Board, the District’s plan passed all nine tests.
- g) Completed CalPERS Open Enrollment health insurance changes and Health Insurance Coverage Program (HICP) enrollments for 2016.

- h) Completed 2016 Benefits Renewal Analysis for medical, dental and vision plan renewals; as previously reported to the Board, continuing with the CalPERS medical plan was the least expensive option and the District will see a costs savings for the dental and vision plan renewals when compared with 2015 premium rates.
- i) Completed 2015 updates to Employee Handbook.
- j) Completed research of web-based performance evaluations; will recommend project be placed on hold until additional programs become available.
- k) Continuing update process for remaining 2 of 10 classification specifications (job descriptions) last updated in 2012.
- l) Continuing to work with management staff on draft Alternate Staffing Worksheet for Assistant and Associate Engineer positions.
- m) Continuing to work with operations staff on updating mandated training matrixes for individual departments.



Agenda Item: 20

Date: October 6, 2015

Subject: CIP Projects Quarterly Report

Staff Contact: John E. Valdes, Engineering Manager

The following report provides updates on the projects identified in the approved Capital Improvement Program (CIP). This report shows those projects included in the approved Calendar Year (CY) 2015 CIP budget and the current status of those projects. The total approved CIP budget for CY 2015 is \$18.3 million. To the extent that billings and invoices have been received and processed, cost expenditures through the end of September are included in the report.

A similar report will be used throughout CY 2015 as a tool for staff to track projects internally and as a report to the Board to show the progress of individual projects and the program in total. Projects completed in prior years will no longer be shown. It is anticipated that the report will continue to be provided to the Board on a quarterly basis.

Sacramento Suburban Water District
 Calendar Year (CY) 2015
 Capital Improvement Program Budget

Project No.	Project Name	Responsible Staff	Approved and/or Amended 2015 Budget	CY15 Spent To Date (\$) (Thru 9/30/15)	Remaining Encumbered Funds (\$)	Status Comments	Project Description
PRODUCTION (SOURCE OF SUPPLY)							
SC15-007	SSWD Groundwater Monitoring and Modeling Project, WO# 121259	John Valdes	\$200,000	\$21,481	\$61,408	[Budget revised from \$50,000 to \$200,000 via budget transfer.] A draft "Use Agreement" letter has been prepared for the San Juan Unified School District (SJUSD) that outlines the terms and conditions under which the District would construct and operate a monitoring well at their William Churchill Middle School located on Whitney Avenue (near Walnut Avenue). Based on previous discussions, SJUSD staff prefers that the monitoring well be constructed near the NE corner of the school property. District staff is awaiting review comments back from SJUSD so that the Use Agreement letter can be finalized and executed. This will allow construction of the two monitoring wells to proceed.	This is a continuation of a project initiated in CY2014. The District has received a partial Prop. 84 Local Groundwater Assistance (LGA) grant from the Department of Water Resources (DWR) in the amount of \$157,135. The funded project consists of two groundwater monitoring wells and related tasks, including water quality sampling and testing. The proposed monitoring well locations are the site of the District's abandoned Arden/William Pond Rec. Area Well (#48) and the District's existing North/Root Well (#54). The total estimated project cost is approximately \$207,000. Therefore, the District's local cost share is approx. \$50,000. After the monitoring wells are constructed, water quality sampling/testing and grant reporting, etc. will continue for one year.
SC15-009	Well Rehabilitation / Pump Station Improvements	See Below	\$890,000	\$0	\$0	See Below	Projects planned for CY 2015 may include, but not be limited to: well investigations/evaluations and/or rehabilitation projects for Wells #3A (Kubel/Armstrong), #23 (Marconi North/Fulton), #74 (River Walk/NETP South) and #N6 (Palm); replacement or removal of hydropneumatic tanks (replace with new tanks or install flush-to-waste assemblies) at Wells #N1 (Evergreen), #N3 Engle, #N15 (Cabana), #N17 (Oakdale) and #N22 River College; rebuild two pressure vessels and replace underdrain system at Well #32A (Eden/Root); investigation and possible installation of a VFD at Well #68R (Northrop/Dornajo); and destruction of Wells #16 (Georgia/Canary), #N21 (Yucca), and #N28 (Oakbrook).
SC15-009A	NSA Flow Meter/Valve Relocation	John Valdes	Incl. Above	\$28,767	\$5,537	Work is completed.	California's 20x2020 Water Conservation Plan requires the District to achieve a 20% reduction by 2020. 19 of the wells in the NSA have flow meters plumbed before the flush-to-waste (FTW) valve thus registering water discharged to waste for WQ purposes as water consumed by customers. Relocating these meters downstream of the FTW valve may however present a problem in achieving the appropriate upstream and downstream distance for laminar flow through the meter. Multi-year project; some minor work remained at Wells 60 and N35 from 2014 to be completed in January. ***THIS IS A TRANSFER OVER FROM SF14-292.***
SC15-009B	Well #N3 Discharge Piping Upgrades	Dave Jones	Incl. Above	\$5,588	\$17,108	Area West performed some preliminary investigation into the easements/access to the site and will be contacting the property owner to the west to see about the possibility of acquiring an easement to bring the storm drain out the west side of the lot and then 90 degrees to the north to tie into Engle.	Several hydropneumatic tanks operated by the District were recently inspected and the pressure ratings for six tanks were found to be near or below the normal system pressure at the tank location. The District would like to replace the six tanks with either new tanks or with piping and surge anticipation valves to allow the wells to pump-to-waste when the well starts. This is one of the six wells being looked at. At this site, the cost to add storm drain out to the street needs to be evaluated to see if it can be done, otherwise, a new tank will be installed at this site to replace the existing one.
SC15-009C	Well #N15 Discharge Piping Upgrades	Dave Jones	Incl. Above	\$0	\$0	Preliminary design for this project has been started, the site currently has a storm drain inlet on the site so FTW can easily be added. Percent complete = 25%. Construction to take place after summer demand period.	Several hydropneumatic tanks operated by the District were recently inspected and the pressure ratings for six tanks were found to be near or below the normal system pressure at the tank location. The District would like to replace the six tanks with either new tanks or with piping and surge anticipation valves to allow the wells to pump-to-waste when the well starts. This is one of the six wells. This site will be getting a surge anticipation valve and discharge piping to replace the existing tank.

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SC15-009D	Well #N17 Discharge Piping Upgrades	Dave Jones	Incl. Above	\$0	\$2,886	Preliminary design for this project has been started, the site currently has a storm drain inlet on the site so FTW can easily be added, however, we do not own this property. Area West in preparing the documents to correct and acquire an easement as the original easement became null upon the consolidation and was not accurate for where the facilities were installed.	Several hydropneumatic tanks operated by the District were recently inspected and the pressure ratings for six tanks were found to be near or below the normal system pressure at the tank location. The District would like to replace the six tanks with either new tanks or with piping and surge anticipation valves to allow the wells to pump-to-waste when the well starts. This is one of the six wells. At this site, the cost to add storm drain out to the street needs to be evaluated to see if it can be done, otherwise, a new tank will be installed at this site to replace the existing one.
SC15-009E	Well #N22 Discharge Piping Upgrades	Dave Jones	Incl. Above	\$0	\$0	Preliminary design for this project has been started, the site currently has a storm drain inlet on the site so FTW can easily be added. Percent complete = 25%. Construction to take place after summer demand period.	Several hydropneumatic tanks operated by the District were recently inspected and the pressure ratings for six tanks were found to be near or below the normal system pressure at the tank location. The District would like to replace the six tanks with either new tanks or with piping and surge anticipation valves to allow the wells to pump-to-waste when the well starts. This is one of the six wells. This site will be getting a surge anticipation valve and discharge piping to replace the existing tank.
SC15-009E1	Well #64 Rehabilitation, WO# 135777	John Valdes	Incl. Above	\$8,380	\$0	Well rehab is complete and well is back online.	Well rehabilitation work took place in 2014.
SC15-009F	Well #16 Destruction/Demo	David Espinoza	Incl. Above	\$0	\$0	Destruction memo paperwork to be prepared. This well is scheduled to be destroyed in Fall 2015. Demolition plans are 95% complete.	Several wells have been abandoned over the years and were not properly destroyed per the State and County standards. This well is one of a handful that are slotted to be destroyed this year. Demolition of above ground facilities will also occur within the well site and waterlines will properly be abandoned. No update since Nicole left.
SC15-009F1	2015 Well #12 Santa Anita/Hernando Improvements - [PROJECT ON HOLD]- WO# 135778	Patrick Wilson	Incl. Above	\$0	\$0	Project is on hold until easement issues with FECRPD are resolved.	This well falls under this year's 2015 Santa Anita Phase 2 mainline replacement, and will need to have upgraded piping up to the well site. During a review of the well site it was noted that a pump-to-waste would be ideal. The Fulton/El Camino Park District is very interested in Well 12 for their ownership and is looking at possibly giving the District a new well site at Bohemian Park in exchange for the well. The Fulton/El Camino Park District has had a board meeting and agreed to move forward with determining the feasibility in this transfer for next year.
SC15-009G	Well #N21 Destruction/ Demo	David Espinoza	Incl. Above	\$0	\$0	Destruction memo paperwork to be prepared. This well is scheduled to be destroyed in Fall 2015. Demolition plans are 95% complete.	Several wells have been abandoned over the years and were not properly destroyed per the State and County standards. This well is one of a handful that are slotted to be destroyed this year. Demolition of above ground facilities will also occur within the well site and waterlines will properly be abandoned. No update since Nicole left.
SC15-009G1	Well #8 Access Improvements	Dave Jones	Incl. Above	\$0	\$0	Engineering to issue Area West a task order to proceed with easement work at this site. Area West has been asked to provide a scope of work and fee estimate.	The access easement to this well site needs to be improved and perfected.
SC15-009H	Well #N28 Destruction/ Demo	David Espinoza	Incl. Above	\$0	\$0	Destruction memo paperwork to be prepared. This well is scheduled to be destroyed in Fall 2015. Demolition plans are 95% complete.	Several wells have been abandoned over the years and were not properly destroyed per the State and County standards. This well is one of a handful that are slotted to be destroyed this year. Demolition of above ground facilities will also occur within the well site and waterlines will properly be abandoned. No update since Nicole left.
SC15-009H1	Well #31A Investigation/Rehab.	John Valdes	Incl. Above	\$15,183	\$1	Work is completed. Production Dept. to amend permit to reactivate the well.	This well was taken offline last year due to high manganese levels above the MCL. Rehabilitation work was performed and the well was redeveloped and the manganese levels are now below the MCL. Staff is working on getting the samples confirmed to clear the well with the State to put it back online.

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SC15-009H4	General Well Evaluation and Rehabilitation - Engineering Services	John Valdes	Incl. Above	\$68,780	\$14,739	WR working on #N6. B&C is working on well rehab. summary reports for Wells #13, 64, N27 and N31.	Contract amendments in the amount of \$75,000 have been issued to Brown and Caldwell (B&C) for continued well evaluation and rehabilitation engineering and hydrogeological services. Wood Rodgers is also still under contract for similar services.
SC15-009J1	New VFD Pump at Auburn Yard Well (#40A)	John Valdes	Incl. Above	\$30,854	\$0	Work is completed. A final grant summary report has been submitted to SMUD. Energy savings calculations to follow.	A new VFD has now been installed with a partial grant from SMUD. been ordered. Tesco Controls installed the VFD and performed necessary PLC and SCADA programming. A new AC unit has been installed on the MCC and a shade structure has also been installed. The project stayed within the grant budget of \$46,000 with \$23,000 payback.
SC15-009K	Well #N31 Abandonment	Doug Cater	Incl. Above	\$7,887	\$0	Loewen pulled the pump and videoed the well. He also installed a lid that will allow staff to pull the necessary samples to determine if well should be abandoned. This well will not be abandoned in 2015 due to recent information provided by Aerojet. If this well is to be abandoned all the physical work on site can be accomplished with out any funds needed.	Several wells have been abandoned over the years and were not properly destroyed per the State and County standards. This well is one of a handful that are slotted to be destroyed this year. Demolition of above ground facilities will also occur within the well site and waterlines will properly be abandoned.
SC15-009K1	Well #45 Investigation/Rehab & Site Improvements	Patrick Wilson	Incl. Above	\$33,497	\$9,000	Loewen to raise pump pedestal to 18". Once complete Area West to complete design for discharge piping configuration.	Due to bacteriological hits, the pump at Well 45 needs to be pulled and have the oil removed off the top of the well water, and have the well video surveyed as part of routine maintenance. The work will also include raising the pedestal to comply with the County's 18" requirement, and reconfiguring of discharge piping and installation of new flow meter. Given the tight constraints in the pump building, it was determined the best course of action was to destroy the portion of the building that enclosed the pump and the chemical room, leaving only the motor room. The building destruction has been completed and the pump investigation/rehab will occur in 2015. Loewen has pulled the pump and performed a TV video. Hedman Drilling has cleaned and bailed the well and performed a second TV video. BC reviewed the work performed and made additional recommendations, Loewen to submit a quote for additional work.
SC15-009L	Well #50 Destruction/Demo	Patrick Wilson	Incl. Above	\$0	\$0	Destruction memo paperwork is being prepared. Veerkamp Construction has completed 90% of the demolition above ground and will remove the tank at the end of October	Several wells have been abandoned over the years and were not properly destroyed per the State and County standards. This well is one of a handful that are slotted to be destroyed this year. Demolition of above ground facilities will also occur within the well site and waterlines will properly be abandoned. . County Environ. Mgmt. inspected the site on June 8th and approved destruction to proceed. This well is slotted to be destroyed in 2021, however due to a mainline replacement project, this destruction has been moved up to 2015.
SC15-009L1	Well #N13 Destruction	Patrick Wilson	Incl. Above	\$0	\$0	Work is completed.	The well has been destroyed per DWR and Sac. County requirements.
SC15-009M	Flowmeter Modifications & Improvements	Doug Cater	Incl. Above	\$12,063	\$124,615	Production staff has compiled a list of the top 40 producers that will receive the modifications in 2015. Two sites have been completed. Materials have been ordered and received. Contracts with Tesco and Prodigy Electric are in place. Work will be completed by year end.	Production staff realized that our production meters were not properly communicating the total production with SCADA, creating a miscalculation in our production numbers. The top 40 producers will receive the necessary improvements to correct this matter in 2015 with the rest of the sites receiving the improvements in 2016. This project will modify and/or replace production meters (40 sites total) with a "Modbus" communication protocol capable meter that will provide a digitally encoded meter read. Site selection was based top 40 highest production meters (2014 production data)

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SC15-00901	Well #23 Investigation/Rehab	Doug Cater	Incl. Above	\$0	\$0	This well was going to be started after Well #3A was completed to insure that the South Service Area had adequate capacity for the summer.	Requests for quotes out to Kirby Pump and Loewen Pump to pull pump at Well 23, remove the oil off the top of the well water, and have the well video surveyed as part of routine maintenance. Work will also include raising pedestal to comply with 18" requirement, and reconfiguring of discharge piping and installation of new flow meter. Due to schedule constraints on the contractors and coordination with SMUD to alley arm the overhead lines, the pump investigation work will occur in 2015.
SC15-00902	Well #13 Site Improvements [COMPLETED]	John Valdes	Incl. Above	\$30,827	\$0	Work is complete.	This well was rehabilitated last year, however the site still needs to be asphalted. This work is scheduled to occur as soon as weather permits.
SC15-009P1	Well #3A Investigation/Rehab & Site Improvements	Patrick Wilson	Incl. Above	\$22,120	\$9,000	Loewen to raise pump pedestal to 18" and then Area West will complete design for discharge piping configuration, and electrical upgrades.	Requests for quotes out to Kirby Pump and Loewen Pump to pull pump at Well 3A, remove the oil off the top of the well water, and have the well video surveyed as part of routine maintenance. Work will also include raising pedestal to comply with 18" requirement, and reconfiguring of discharge piping and installation of new flow meter. Additionally, due to lot size constraints, it was decided to remove the hydropneumatic tank at the site. The tank was removed and the piping blind flanged at either end. Due to schedule constraints on the contractors and coordination with SMUD to alley arm the overhead lines, the pump investigation work will occur in 2015, along with the reconfiguration of the discharge piping once the pump pedestal has been raised. Loewen has pulled the pump and performed a TV video, Hedman Drilling is scheduled to clean and bail the well and performed a second TV video.
SC15-009Q1	Well #N1 Discharge Piping & Site Improvements	Patrick Wilson	Incl. Above	\$19,558	\$4,250	Area West is completing design for discharge piping and FTW upgrades and electrical upgrades.	Several hydropneumatic tanks operated by the District were recently inspected and the pressure ratings for six tanks were found to be near or below the normal system pressure at the tank location. The District would like to replace the six tanks with either new tanks or with piping and surge anticipation valves to allow the wells to pump-to-waste when the well starts. This is one of the six wells. The tank has been removed and a flush-to-waste system will be installed into the discharge piping to resolve the concern. Engineering staff is working on the design in house. The discharge piping and flush-to-waste installation will occur in 2015.
SC15-009R	VFD Replacement at Well #56A	Doug Cater	Incl. Above	\$20,158	\$0	Work is completed.	The VFD failed at Well #56A and a replacement is to be ordered and installed.
SC15-009R2	Arbors PRV Station RTU and Electrical	John Valdes	Incl. Above	\$830	\$0	This work is being done under SC15-010F1.	SMUD application complete. According to Production Dept., the panel is in our shop. Letter requesting an easement from the property owner was mailed on 3/25/14. Followed up with a phone call on 5/1/14, 6/26/14, 7/18/14 & 10/1/14 and property manager (Stephanie) has not come to a conclusion. Stephanie will follow up and meet with her group soon to start process. Her attorney's will eventually need to get involved. On hold.
SC15-009S	Sand Separator Replacement at Well #26	Doug Cater	Incl. Above	\$0	\$22,081	A new sand separator has been ordered and staff is waiting for delivery and installation by Loewen Pump and Maintenance.	The sand separator failed at this site and needs to be replaced.
SC15-009T	Booster Pump Replacement at Booster Pump Station #1A	Doug Cater	Incl. Above	\$0	\$13,840	A new booster pump has been ordered to replace the existing pump that failed and was leaking. Once the pump arrives it will be installed by Loewen Pump and Mechanical.	The booster pump failed and after investigations to see if repairs were possible, it was determined that the damages were not repairable, requiring the need for a new pump to be ordered.

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SC15-009T2	Well #N6 Waste Water Drain Project	John Valdes	Incl. Above	\$1,379	\$0	Tree has been removed and storm drain improvements have been completed. As-builts are being sent to the County for sign off.	Project placed on standby. Modified waste water drain system for pump station overboard has been designed by Area West. Project will replace existing waste drain system to connect into an existing County drainage system as per the District NPDES permit. Current system directly outfalls into a County creek which does not meet the guidelines of the District's NPDES permit. However, this may not be a viable well as the existing casing has been found to have holes in it.
SC15-009U	Bainbridge/Holmes Well (#59A) Rehab and Pump Replacement	John Valdes/ Doug Cater	Incl. Above	\$775	\$89,500	The well was videoed and some minor rehabilitation work is recommended in addition to replacing the pump/motor. Staff and consultants are currently obtaining pricing on pumps and motors. One possibility being considered is to go back to a vertical turbine pump (VTP) at this site. A sound enclosure already exists at this site and based on the size of the pump/motor required (250 hp), a VTP would be less expensive and easier to obtain (with a much shorter lead time) than a submersible pump/motor.	A major pump failure has occurred at this well site. The submersible pump/motor at this site was pulled and the bearings were found to be destroyed. This type of pump uses a mercury seal near the connection point between the pump and the motor. As a result of the bearing failure, the mercury used in the seal has fallen to the bottom of the well. This is not terribly uncommon but the mercury must be collected and accounted for. A suction type bailer is recommended in order to collect the mercury. If necessary, the bottom of the well can also be filled with a cement cap to ensure that the mercury is covered over. The chances are unlikely that the mercury will contribute to any water quality problems. However, additional water quality testing may be required by the State Water Resources Control Board, Division of Drinking Water (DDW).
SC15-009U2	Well #35 Site Improvements	Patrick Wilson	Incl. Above	\$2,178	\$17,323	Area West has prepared the preliminary design for the SD tie-in outside the site. They will next complete the design of the piping inside the site. This work to occur in the fall after summer demand.	This well was rehabilitated last year, however some work still remains at the site to bring it current, including removal of the tank, installation of a storm drain system out to the street, a surge anticipation valve and reconfiguration of the discharge piping. The eyewash station will also be replumbed, and SCADA will be added to the site.
SC15-009W2	Well #N6 Investigation/Rehab.	John Valdes	Incl. Above	\$0	\$0	Wood Rodgers has prepared documentation supporting a request to DDW to approve drilling a new well at this site. A meeting will be scheduled with DDW in July to discuss.	The entire casing from the surface to a depth of 110' is riddled with holes. Wood Rodgers is working on the design for the modifications to rehab the well. The plan is install new 8" well casing in the well with an annular seal to 175'. The 14" casing will be perforated from 80'-120'. A gravel envelope will be installed from 175'-508' and a wire wrapped screen from 370'-490'.
		Subtotal	\$890,000	\$308,823	\$329,878		Total budget, spent to date and additional encumbered funds on SC15-009 projects.
SC15-010	SCADA Remote Terminal Units (RTU's) / Communication Improvements / MCC Panel Replacement/Upgrades	See Below	\$300,000	See Below	See Below	See Below	This project includes improvements and modifications recommended in the SCADA Master Plan. A well site to be upgraded with new MCC panels and PLC's/RTU's in CY2015 is #N25 (Sutter). Two other well sites, yet to be determined, will be upgraded with new PLC's/RTU's only. These sites were selected from staff's control center study and analysis. In addition, a new VFD will be installed at Well #40A per a Regional Water Energy Grant obtained from SMUD (the estimated cost is \$46,000 and the grant will pay one-half).
SC15-010A	New MCC Panel for Capehart and MCC Modifications for Tanks #216 and 769	Dave Bruns	Incl. Above	\$103,300	\$0	Work is completed.	This work is part of the hydraulic improvements including the installation of booster pumps at each of the three elevated tanks.
SC15-010B	SCADA RTU/PLC and MCC Units for Various Well Sites	Dave Bruns	Incl. Above	\$0	\$0	Well Sites to be equipped with SCADA include #N1, #3A, and #35. Well #35 is complete. Wells #N1 and 3A is still undergoing planning and design.	These well sites are not currently equipped with SCADA.
SC15-010C	Truax Well #43 Site Upgrades, WO# 148474	Dave Bruns	Incl. Above	\$0	\$40,000	Tesco has provided a quote and will be scheduled before the end of November to complete the work.	This includes the installation of a new SCADA panel and all required wiring to properly run the gas engine generator at Well 43.

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SC15-010E1	SCADA RTU/PLC and MCC Installation at Wells #N8, #N14, and #N25	Dave Bruns	Incl. Above	\$15,865	\$0	Panels were ordered last year, work to be put out for construction once Electrical General Service Agreements have been signed. Dave Bruns is obtaining a quote from Prodigy Electrical	These well sites are not currently equipped with SCADA.
SC15-010F1	SCADA RTU Panel Installation at Elevated Tanks #769, #216 and Capehart; and Wells #14, #37, #38, #39, #40, #43, #45, #46, and #76	Dave Bruns	Incl. Above	\$11,580	\$6,115	Work is completed.	Several SCADA Remote Terminal Unit (RTU) panels were pre-purchased from Tesco Controls at the end of 2014. These panels will be installed in 2015 at various well sites and other water system facilities. Prodigy has completed work at Capehart Tank and Elevated Tanks #216 and #769 in addition to well sites #14, #37, #40, #43, #45, #46, and #76. The only remaining work at these sites is startup items, which will occur the first two weeks in January 2015. The work at Wells #38 and #39 are being removed from the contract given that they are Chromium 6 sites.
SC15-010G1	SCADA Alarm Management Plan	Doug Cater	Incl. Above	\$0	\$0	Staff is planning on using this budgeted amount to purchase the needed equipment to manage SCADA alarms (e.g. tablet, software, etc.) Staff is drafting a memo that will include a business case analysis to support the plan and items that need to be purchased. Staff met with WonderWare to obtain a quote on the subject materials on 7/22/2015 - Not sure that this can be accomplished in 2015 with out an Operations Plan for after hours calls and alarms.	Per the SCADA Master Plan, a written management plan should be developed that applies the alarm purposes, priorities, and presentation defined in the SCADA HM Standard. The alarm management plan would build upon the alarm presentation, call-out, and response procedures and develop processes to reduce nuisance alarms. Estimated project cost of \$45,000 per SCADA Master Plan.
		Subtotal	\$300,000	\$130,745	\$46,115		Total budget, spent to date and additional encumbered funds on SC15-010 projects.
SC15-011	Wellhead Treatment / Chemical Feed System Rehab. / Improvements	See Below	\$370,000	\$0	\$0	See Below	Project to cover costs associated with needing to install new and repair/replace existing wellhead treatment or chemical feed systems on an as-needed basis. One project planned for CY2015 is related to the need for Manganese (Mn) treatment at the existing Verner Well (#N36). Since this is such a large well site it is proposed to drill up to two additional wells and construct a larger Mn treatment facility (estimated capacity of 4,500 gpm) to benefit from economy of scale. This is anticipated to be a two year project. Funds are included in 2015 for design and environmental review with construction to follow in 2016.
SC15-011A	Chromium VI Operations Plan	Doug Cater	Incl. Above	\$0	\$86,240	The engineering firm of Kennedy/Jenks Consultants has been selected for this project. Contract execution is in processing and then the work will begin. The study is scheduled to be completed before the end of the year. Kick-off Meeting is schedule for 10/15/2015	Funds are budgeted to hire a consultant to prepare a Chromium 6 Operations Plan that would evaluate groundwater well water quality data, look at BMP's and costs for adding treatment, whether additional property is needed, whether the well should be abandoned, etc.
SC15-011B	Well #75 Iron/Manganese Treatment Plant Repairs	John Valdes	Incl. Above	\$13,736	\$0	This project is on hold due to current issues with Well #75. Engineering to coordinate with Production Dept.	During Loprest's investigation, it was found that the media bed is contaminated with something that is causing higher pressure drops. It was recommended to replace the media bed down to but not including the concrete fill. Inspect the underdrain system for leaks and breakage, and pressure wash the interior of the vessel to remove accumulated sludge, and replace all manway gaskets at the same time.
SC15-011C	Verner Well (#N36) Manganese Treatment Design	John Valdes	Incl. Above	\$13,736	\$0	The firm of Luhdorff & Scalmanini (LSCE) was selected for this project. A contract has now been executed with LSCE in the amount of \$275,083. This fee covers project management, alternatives evaluation and analysis, pre-design, final design and bidding services. As currently anticipated, final design of a proposed 1,500 gpm manganese treatment facility will be completed in the summer/fall of 2016. Construction of the treatment facility would begin in late-2016 and extend into 2017. The estimated construction cost for this facility is \$1.5 million. The treatment facility will be designed to be expandable since it may be possible to drill additional wells at this site.	The manganese (Mn) level at this well is above the MCL and efforts to reduce the Mn concentration by modifying the well have been unsuccessful. Above ground treatment is recommended.

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SC15-011C1	Chlorinator Units at Gas Engine Sites	Doug Cater	Incl. Above	\$0	\$0	Units purchased in 2014 for installation in 2015. Without outsourced assistance for design and project management, this project may not be completed in 2015	Chlorinator units were purchased in 2014 for installation in 2015. Sites to receive chlorinator units include Wells #5, 37, 40, 41, 43, and 45.
SC15-011D	Fluoride Equipment Installation	Doug Cater	Incl. Above	\$1,233	\$79,680	Equipment was purchased in 2014 for installation in 2015. Tesco's Portion of the bid is \$35,000 for programming and Prodigy electrical is \$44,680. Work started 10/13/2015 and is expected to be completed by the end of 2015.	Fluoridation equipment was purchased in 2014 for installation in 2015. Project must be well coordinated as there are 26 sites. Fluoride chemical (acid) must be pumped from existing tank to a drum, the existing tank removed, the new scale installed, wiring and PLC programming completed, the tank reinstalled on the scale and then the fluoride chemical (acid) pumped back into the tank. One site to be done at a time, as chemical cannot be left out unprotected over night.
		Subtotal	\$370,000	\$28,705	\$165,920		Total budget, spent to date and additional encumbered funds on SC15-011 projects.
SC15-012	Well Replacement	See Below	\$600,000	\$0	\$0	[Budget revised from \$2,450,000 to \$600,000 via budget transfers.] See Below	* Priority depends on the well. Recommended in 2009 Water System Master Plan capital needs analysis. The new Rutland Well will be under construction at the end of 2014 and some well drilling construction costs may carry over into 2015. In addition, the pumping plant and all above-ground facilities will be constructed in 2015. Budget is included for design and drilling of a new well on property to be obtained within the new Barrett Ranch East Subdivision. Also, costs are budgeted to acquire additional land for future replacement well sites within the District.
SC15-012A1	Rutland Well #N39 (Charles Peck School)	John Valdes	Incl. Above	\$347,392	\$66,732	The bid opening for the pumping plant was held on 9/10/15. There were a total of eleven bidders. The apparent low bidder was Aztec Consultants at \$2,131,640. The engineer's estimate is \$2.4 million. Sierra National was the second low bidder at \$2,139,600. There were some irregularities with the low bid and the low bidder's subcontractor listing. After consultation with the District's engineer (Wood Rodgers) and legal counsel, a decision was made to reject all bids and to re-bid the project. The project was re-bid on October 6th with a bid opening date of October 15, 2015. Only the eleven bidders that originally bid on the project are being invited to re-bid.	This project consists of the construction of a new groundwater well and pumping plant with a capacity of 1,500 gpm in the District's North Service Area (NSA). Well construction is completed. A Notice of Completion was filed at the County/Clerk Recorder's Office on April 6, 2015.
		Subtotal	\$600,000	\$347,392	\$66,732		Total budget, spent to date and additional encumbered funds on SC15-012 projects.
SC15-013	Electrical Arc Flash Hazard Modifications at Various Well Sites	John Valdez	\$100,000	See Below	See Below	See Below	An electrical engineering consultant was previously hired to perform a hazard assessment of all of the District's electrical panels to determine what modifications are necessary for panels rated as Category 3 or higher. Based on work already performed, required modifications are expected to cost up to \$15,000 per well site. The highest priority modifications were completed in 2011 - 2014. However, it is assumed that a few final panels will require some sort of modification and/or corrective action and these modifications will be performed in 2015. One such panel still to be completed is the electrical distribution panel at the Administration Building.
SC15-013E2	ARC Flash Design Services	Dave Bruns	Incl. Above	\$17,252	\$12,748	Affinity Engineering is working with SMUD to get the design for the Marconi improvements completed.	Continuation of project initiated in 2013 with Affinity Engineering. Affinity Engineering was hired to perform a hazard assessment of all of the District's electrical panels to determine what modifications are necessary for panels rated as Category 3 or higher. Approximately 17 panels remain that will require some sort of modification and/or corrective action. Based on work already performed, required modifications are expected to cost up to \$15,000 per well site. The highest priority modifications were completed in 2011 - 2013. The next set of highest priority modifications (at 14 well sites) will be performed in 2014. An amendment will be prepared for the work at the Marconi Office which will occur over 2014 and 2015.

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SC15-013I2	Arc Flash Labeling Updates	Dave Bruns	Incl. Above	\$0	\$0	This work is part of bringing certain sites into compliance with ArcFlash requirements. Work at each site has to be verified before labels can be ordered/ installed. Work to be performed in Fall.	The sites that have had corrective measures to date require updated arc flash hazard analysis and updated documentation and labeling. This will include 21 sites in 2015.
SC15-013K1	Wells #N33, #N29, # N24, #N23A, #N9, #60, #N22, #28	Dave Bruns	Incl. Above	\$0	\$0	Contract has been signed by Tesco and District. Need to schedule shutdowns with SMUD for Tesco to do the work. Due to scheduling constraints with SMUD shutting down sites, the work is not yet scheduled.	ARC FLASH ~ Control Panel Modifications to mitigate arc flash hazards by adding another level of protection upstream of the motor control center. Plan is to do Well #N29 first to see how work goes, then do #N23, N24 and N33 as those are all summer runners. Wells #N22, N9, 28 and 60 will follow.
SC15-013L1	Wells #24 and #26	Dave Bruns	Incl. Above	\$0	\$0	A contract with Prodigy was prepared for the installation of the panels prior to the end of 2014, however, due to design coordination with SMUD, this work will not be completed until 2015. Still waiting on SMUD design.	ARC FLASH ~ New service pedestals were purchased to mitigate arc flash hazards by adding another level of protection upstream of the motor control center.
SC15-013M1	Marconi Office ArcFlash Improvements	Dave Bruns	Incl. Above	\$27,921	\$0	Waiting on SMUD design.	ARC FLASH ~ Prodigy will be working with District Staff and Affinity Engineering in design and constructability coordination for arc flash work to be done at the Marconi Office. The construction phase of the work will occur in 2015. Affinity's costs are tracked under SC14-013E1.
		Subtotal	\$100,000	\$45,173	\$12,748		Total budget, spent to date and additional encumbered funds on SC15-013 projects.
SC15-040	Engine Generator Compliance	Doug Cater	\$75,000	\$0	\$0	Plan is to upgrade/upsized the generator at the Marconi Office. Testing has been completed to verify size of generator needed. This work is being combined with new electrical panel and new transformer for building. Affinity Engineering is preparing plans/specifications.	Funds are included for a major engine overhaul and/or engine generator replacement (anticipate one engine overhaul in 2015).
DISTRIBUTION							
SC15-018	Distribution Main Replacements	Dave Jones	\$9,060,000	See Below	See Below	[Budget revised from \$9,600,000 to \$9,060,000 via budget transfer.] See Below	This project assumes approximately 6.5 miles of mains to be replaced per year using service contract approach combined with District purchase of materials. Some contracted design and construction work from 2014 is anticipated to carryover into CY2015. Projects planned for construction in CY 2015 include Santa Anita Phase 2, Fair Oaks Estates and Country Club Vista North (if budget available). This includes approximately 45,000 lf of new 8" and 12" mains. Work planned for 2015 also includes completion of final paving for the Arden Oaks Main Replacement Project. Also includes hiring consultant(s) to provide support services (surveying and mapping services, SWPPP, construction management, etc.) for in-house design of projects planned for construction in 2016/2017. In addition, funds are included to pre-purchase up to 40,000 linear feet of ductile iron pipe in the fall of 2015, for installation in 2016, before anticipated price increases take affect.
SC15-018A	6166 Longmont Main Replacement	Patrick Wilson	Incl. Above	\$34,425	\$0	Completed.	This project is complete. Work included moving an existing backyard main into the easement nearly 5 feet off. Approximately 100 linear feet of pipe including all fittings and two water services.

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SC15-018A1	2015 Barcelona Waterline Replacement Project	Patrick Wilson	Incl. Above	\$21,050	\$1,112,643	Veerkamp Construction has started construction with potholing activities the week of October 12th. The construction work will be completed over the next three months, depending on weather conditions. The public relations component of the project is nearly finished.	This project will consist of the installation of approximately 6,500 feet of new water mains and approximately 150 new metered service connections. The project area is outlined by El Camino Avenue, Howe Avenue, Bell Street, and Cottage Way. Construction is anticipated in 2015, depending on budget availability. The design work for this project was completed in-house and plans and specifications are 90% complete. In addition, KASL Engineers has completed a control survey to support the design. Project is on hold pending Board action.
SC15-018B	Hillsdale/Robert Frost Main Replacement	Dave Jones	Incl. Above	\$144,007	\$0	Completed.	A NOC has been filed with the County.
SC15-018B1	2014 Belcot Road, El Camino Avenue, and Fulton Avenue R.O.W. Improvements	Patrick Wilson	Incl. Above	\$190,241	\$2,411	Completed.	M.A. Long and GM Construction have completed all work in Fulton Avenue and El Camino Avenue. On Belcot Road Performance Piping is installing the mainline and Rawles Engineering is the service line contractor. Performance Piping and Rawles Engineering have completed all work for Belcot Road.
SC15-018C	2015 Loehmann's Plaza Waterline Upgrade Project-- Project On Hold	Patrick Wilson	Incl. Above	\$5,443	\$4,622	Project is currently on hold.	This project has been placed on HOLD pending Board direction. Loehmann's Plaza has been an issue since Cal-Am gave the rights to the area to Arcade W.D. The Distribution Dept. has asked to create a looped system to minimize the size of the shutdown (1 valve = 48+ customers out of water). Area West Engineers have completed a survey of the area and design is approximately 50% complete. Talks have been held with the Sacramento County Water Agency (SCWA) in order to improve the intertie, and to discuss taking over their fire hydrant system within Loehmann's Plaza. SCWA staff agrees that it would be ideal to give SSWD the existing fire hydrant system, but has decided that they would prefer to maintain a looped water system with Loehmann's Plaza.
SC15-018C2	2015 Santa Anita Phase 2 Main Replacement Project	Patrick Wilson	Incl. Above	\$3,783,719	\$612,347	Veerkamp has completed all but the raising of the valve cans, which will be completed after the County has paved the minor streets. GM Construction has completed their tasks and a Notice of Completion has been filed with the County. The District and the County are preparing a Paving Partnership Agreement similar to the North Country Club Estates agreement approved in 2014.	The project is outlined by Fulton Avenue, El Camino Avenue, Bell Street and Cottage Way. This is Task 1 of the 2015 Master Service main replacement program. Construction is complete with the service line portion performed by GM Construction. Main line installation by Veerkamp is 99% complete with some minor issues to complete, and will be submitting their final invoice in early August.
SC15-018D1	2015 Fair Oaks Estates Mainline Replacement Project	Patrick Wilson	Incl. Above	\$1,330,370	\$997,383	Veerkamp General Engineering has completed all main line construction on the Fair Oaks Estates project. Veerkamp is expected to complete all remaining work by October 23rd with the exception of final tie-ins. GM Construction has completed 75% the service lines to the homes in the area. The entire project is expected to be completed by November 13th. Due to unforeseen paving issues the project is approximately \$100,000 over budget.	This project will replace a high leak prone portion of ODS mainline. The project will also abandon a 6" water main where a garage was built over the water main that was not encumbered by an easement. The project area will consist of Fair Oaks Blvd., Estates Dr., Cortlandt Dr., Treehouse Ln., Columbia Dr., and Alton Ct. An aerial survey was prepared by Area West Engineers. The project was awarded to the Master Service contractors as Task No. 2. Construction began on July 13, 2015 and is expected to be substantially complete October 2, 2015.
SC15-018E1	North Country Club Estates - Phase 4 Main Replacement Project	Dave Jones	Incl. Above	\$264,986	\$0	Final paving still to be completed when weather conditions are favorable.	Veerkamp has completed their tasks and a NOC has been filed. GM has one task remaining on Lerwick Road pertaining to all cross-overs shall be type 1, resulting in a change order. A NOC will be filed in June.
SC15-018F1	Arden Oaks - Lower and Raise Valve Boxes	Dave Jones	Incl. Above	\$4,640	\$87,760	Veerkamp has completed all work raising iron in Arden Oaks.	In conjunction with the paving partnership with the County of Sacramento, all recently installed valves were lowered 6-inches below grade in preparation for final paving (which will be performed by the County). County paving began July 13, 2015 and is expected to be complete August 14, 2015. Once final paving is completed and accepted in 2015, the District's contractor (Veerkamp) will raise the valve boxes/covers to final grade.
		Subtotal	\$9,060,000	\$5,778,880	\$2,817,165		Total budget, spent to date and additional encumbered funds on SC15-018 projects.

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SC15-019	Distribution Main Improvements / Extensions / Interties and Resolving Utility Conflicts	See Below	\$1,780,000	\$15,832	\$0	[Budget revised from \$500,000 to \$1,780,000 via budget transfers.] See Below	Includes various small main replacement projects to solve distribution system hydraulic issues and relocating District facilities due to grade conflicts with County of Sacramento improvements (storm drains, etc.). Small main replacement projects planned for construction in 2015 include the Connie Drive Main Extension project, Naomi Way / Marconi Circle Main Extension, and the Marconi Circle Main Improvement project.
SC15-019A	Miscellaneous Repair Issues	Patrick Wilson	Incl. Above	\$114,108	\$19,644	Area West Engineers has preparing easement documentation for Drayton Heights and is in the process of collecting signatures.	On-going repair of miscellaneous issues that arise out from various conflicts with County improvement projects, District facilities, developer projects and during main replacement projects. Rawles has lowered a water service in Hazelwood Avenue to avoid a conflict with a new County SD project.
SC15-019B	2015 Fulton Avenue R.O.W. Improvements - Phase 2	Patrick Wilson	Incl. Above	\$177,733	\$66,070	Completed.	Finishing all work in Fulton Avenue prior to the County's paving project in May 2015. GM Construction will have work completed by April 10.
SC15-019C	48" MOV Conveyance Station 97+50	Patrick Wilson	Incl. Above	\$205,852	\$80,246	Veerkamp's work is complete. Prodigy Electric has connected the new MOV and is ready for startup after flushing activities have been completed.	Replacement of the 48" MOV at Navion Drive and Interstate 80. Veerkamp and Flowline were invited to bid. This work also consists of aiding the District with locating two missing valve boxes for ARV's and re-filling the pipeline.
SC15-019D	2015 DPMWD Intertie - Annette Street	Patrick Wilson	Incl. Above	\$8,035	\$0	Completed.	The District will be cost sharing (50%) for a new 8" intertie between DPMWD and SSWD. SSWD is pre-ordering the vault and meter for the project. The project will be completed under DPMWD's contract with GM Construction. Project is to be completed in front of the County's paving project on Eastern Avenue in June 2015.
SC15-019E	County Contract #(4237) Howe Avenue SRTS	David Espinoza	Incl. Above	\$15,123	\$0	Completed.	Project will relocate six (6) meters to back of proposed sidewalk and remove two (2) bollards fronting a fire hydrant. WO# 145851.
SC15-019F	Verner PRV Valving Replacement Station 28+95	Patrick Wilson	Incl. Above	\$80,598	\$93,262	Completed.	Replacement of leaking valves in Verner PRV Station to accommodate the 2014 Antelope Pump Back Project. Veerkamp is to replace 2-12", 2-16", and 4-24" butterfly valves in the Verner PRV Vault.
SC15-019G	County Curb Ramps Bainbridge Drive Conflict, WO# 145438	David Espinoza	Incl. Above	\$8,444	\$0	Completed.	8" ACP in conflict with County's new ADA compliant curb ramp as well as relocated storm drain inlet. Contractor to replace 20' of main with DIP.
SC15-019H	2015 Conveyance - Verner ARV Upgrade Project	Patrick Wilson	Incl. Above	\$866	\$3,345	Performance Piping has completed all work and COCH has approved pavement restoration.	Move an existing 3" CCARV out of the 30" MOV vault in Verner Avenue to an above ground installation. Additionally, install a new sump pump and discharge piping from the MOV vault.
SC15-019I	2015 Conveyance - Antelope MOV Rehabilitation Project	Patrick Wilson	Incl. Above	\$31,871	\$39,037	Prodigy has completed all work and 48" MOV is operational.	During the District's installation of a section of 48" CCP at the Antelope PRV station the 3-phase electrical was shorted to the 48" MOV. This work is an effort to re-build the existing electronics in place.
SC15-019J	2015 Watt Avenue/Magpie Creek	Patrick Wilson	Incl. Above	\$0	\$529,184	Performance Piping was the low bidder and has completed a County required pre-construction meeting. Performance will begin pothole activities starting the week of October 19th.	In 2014 the District had yet another 12" PVC break, and with this break there are now two 12" dead ends that need to be reconnected on the south side of Magpie Creek to provide adequate circulation and fire flows for Watt Avenue.
SC15-019K1	Antelope Road Widening CCARV Replacement Project - Project On Hold	Patrick Wilson	Incl. Above	\$0	\$0	Project is on hold until sufficient funds are available.	Includes the upgrading and replacement of the oldest 17 CCARV's on the 48" Conveyance Pipeline. The design is complete and specifications are being reviewed by staff. Once approved project will be ready for construction. District staff has ordered enclosures and is waiting to order CCARV's.

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SC15-019N1	2014 McKinney Way Main Extension	Patrick Wilson	Incl. Above	\$14,094	\$15,946	Completed.	In preparation of the Rutland Well an 8" ACP backyard water main needs to be abandoned to make room for the new well building. Veerkamp was the low bidder and completed the installation of 11 new metered front yard services, two new fire hydrants, and 500 LF of 12" DIP. The construction work is completed with the exception of final paving and the District is waiting on final billing for the project.
SC15-019O1	2014 Heatherdale Main Extension Project	Patrick Wilson	Incl. Above	\$131,420	\$6,057	Completed.	Install approximately 1,485 linear feet of 8" DIP and 22 new metered water services, and three new fire hydrants. Rawles Engineering has completed all work and the County has accepted the project.
		Subtotal	\$1,780,000	\$803,976	\$852,792		Total budget, spent to date and additional encumbered funds on SC15-019 projects.
SC15-020	McClellan Improvements	N/A	\$0	\$0	\$0	N/A	Improvements required per agreement with McClellan AFB. (Combined into project -019 above.)
SC15-022	Water Related Street Improvements (Lowering/Raising Valve Boxes)	See Below	\$90,000	\$0	\$0	[Budget revised from \$150,000 to \$90,000 via budget transfer.] See Below	This project includes lowering and raising existing water valve boxes before and after pavement grinding and overlay by the County of Sacramento and/or the City of Citrus Heights. Typically, the County of Sacramento and City of Citrus Heights have 2 to 4 projects a year and the District's cost projection is an annual average of their project impacts. This project also includes work identified by the District's Preventative Maintenance (PM) crew including raising valve boxes, etc.
SC15-022A	County Contract #(4220) El Camino Lower/Raise Valves on 2015 Federal AC Overlay Project	David Espinoza	Incl. Above	\$0	\$3,962	Materials have been ordered and PO created. County postponed project to 2016.	Lower then raise approximately 67 valve boxes along El Camino Avenue, Eastern Avenue and Marconi Avenue. Tricia is procuring the new valve boxes.
SC15-022B	County Contract #(4263) Fulton Lower/Raise Valves on 2015 AC Overlay Project WO# 147558	David Espinoza	Incl. Above	\$0	\$45,418	County's contractor has paved Fulton Ave. District's contractor, Tetra Tech, will be raising our valve boxes in the first couple of weeks of October	Lower then raise approximately 53 valve boxes along Fulton Avenue from Marconi Avenue to Auburn Blvd. Tricia is procuring the new valve boxes.
SC15-022C	County Contract #(4269) Garfield Lower/Raise Valves on 2015 Federal Phase 2 AC Overlay Project	David Espinoza	Incl. Above	\$0	\$474	Materials have been ordered and PO created. County postponed project to 2016.	Lower then raise approximately 8 valve boxes along Garfield Avenue from S/O of Verner Avenue to Greenback Lane. Tricia is procuring the new valve boxes.
		Subtotal	\$90,000	\$0	\$49,854		Total budget, spent to date and additional encumbered funds on SC15-022 projects.
SC15-024	Meter Retrofit Program - District Funded and 2013/14 CalFED Meter Retrofit Grant	David Espinoza	\$2,318,000	\$1,568,272	\$0	[Budget revised from \$1,613,000 to \$2,318,000 via budget transfer.] Flowline has installed 1,126 meters through end of Sept. Close out paperwork to follow.	District is on schedule to comply with AB 2572 requirement to install meters in California by 2025. Specific meter retrofit schedule is in accordance with updated Water Meter Asset Management Plan, last updated May 2015. In 2015, an estimated 1,124 meters will be installed as part of the retrofit program. Approximately 112 of the 1,124 meters will be installed using CalFED grant funds which were obtained to accelerate meter installation.
SC15-024A	Voluntary Meter Retrofit Program	Matt Underwood	\$75,000	\$37,924	\$1,800	Seventeen voluntary meters installed to date.	Budget is provided to install new water meters as requested by customers through the District's voluntary meter program. Expenditures over the past five years have averaged approximately \$125,000/year.
		Subtotal	\$2,393,000	\$1,606,195	\$1,800		Total budget, spent to date and additional encumbered funds on SC15-024 projects.

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SC15-042	Meter Replacement and Repair	Matt Underwood	\$100,000	\$67,989	\$18,375	(105) 1.5" and 2" meters were targeted for replacement due to having outlived their useful life. These are Sensus and Neptune meters that have 100 cubic foot registers that are not compatible with AMI technology. New MTU's are also being installed at the time of replacement. This project is scheduled for completion by the end of October. There are three complete service replacements pending associated with this project.	Recommended in 2009 Water System Master Plan capital needs analysis. This is the initiation of a planned program to repair and/or replace water meters that outlived their useful life (typically 15 years). In the Master Plan, an inventory of meters installed from pre-1990 through 2009 was used to project a meter replacement schedule. SSWD staff will test the meters first to assess performance and to determine if they are still within AWWA accuracy standards. In 2015, it is estimated that a total of approximately 175 existing water meters in sizes from 3/4 -inch to 2-inch will be replaced. The new water meters will be compatible with the new fixed network meter reading system.
SC15-027	Distribution System Major Repairs	See Below	\$350,000	See Below	See Below	See Below	Consists of repair of major main breaks that require replacement of infrastructure.
SC15-027A	Leak at Intersection of Forcum Avenue and Nelson Street, WO #139418	Bob Ames	Incl. Above	\$6,800	\$0	Completed.	Staff was informed of this leak and coordinated with a District contractor to mitigate this failure. Dolver Company has been hired to repair this leak. This was a coupling leak; however it was close to other appurtenances which resulted in those needing to be replaced as well (Lead).
SC15-027B	MBP Bldg. #251, WO# 139064	Bob Ames	Incl. Above	\$4,385	\$0	Completed.	Staff was contacted by MBP Management and informed of a leak on/near the flight line, which is where most of the ACP gasket failures occur. Staff attempted to use the correlator to locate the leak; However, it is not working. Staff contacted the Manufacturer, they assisted and it is assumed that the Flight Towers radio is creating an interference with the correlator signal. Contractor will initiate exposing couplings and locating by means of process of elimination. The concrete is 12" thick which means the leak can be traveling over a large area and not surfacing at the location of the failure. This expense may escalate due to this issue. Contractor identified a coupling gasket had failed. Repaired using an FCRC.
SC15-027C	Peacekeeper & Watt Avenue, WO #139149	Bob Ames	Incl. Above	\$6,106	\$0	Completed.	Staff was contacted and informed of a major leak at the intersection of Peacekeeper and Watt Avenue. Staff contacted Tetra Tech to mitigate this leak. This leak was on a 6" ACP coupling. Physical Work Completed January 9, 2015 waiting for invoice.
SC15-027D	Watt Avenue and Longview Drive, WO#140145	Bob Ames	Incl. Above	\$62,073	\$0	Completed.	Staff assessed water pooling on the NW side of Watt Avenue and Longview Drive and determined by utilizing the correlator that there is a leak on an 8" ACP water main. The correlator identified the leak location at/or near the NE northbound lane of Watt Avenue at the intersection of Longview Drive. Staff has coordinated with a District Contractor and is scheduling an emergency repair which will require night work. This project escalated due to identifying an additional leak which was mitigated.
SC15-027E	4999 Hemlock Street, WO #140919	Bob Ames	Incl. Above	\$7,004	\$0	Completed.	On February 17th staff identified a leak on an 8" MLS water main at 4999 Hemlock. This is a high traffic road way and potential large scale leak. Therefore, this repair assignment was outsourced to a District contractor. This was a service line failure. Contractor replaced a welded 3/4" corp with an FCRC and installed a new 1" S/L to District Standards.
SC15-027F	Conveyance Pipeline (CARV)	Bob Ames	Incl. Above	\$8,112	\$0	Completed.	Due to scheduled repair work, various CARVs are scheduled for replacement prior to dewatering and/or refilling the pipeline.
SC15-027G	7560 Monogram Drive, WO# 143005	Bob Ames	Incl. Above	\$4,021	\$0	Completed.	Staff identified a failing 3/4" S/L that is in need of replacement. A District contractor will be used to make this repair.
SC15-027H	Bldg. #243-E, WO# 145197	Bob Ames	Incl. Above	\$4,583	\$4,415	Completed.	Staff identified a leak on a fire service line just upstream of a PIV.

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SC15-027I	5440 Harrison St., WO# 145241	Bob Ames	Incl. Above	\$12,300	\$0	Completed.	Staff identified an old abandonment that was not completed properly and the pipe that is still active is now leaking. This unnecessary piping will be eliminated and abandoned properly.
SC15-027J	4420 Oakhollow Drive WO# 146169	Bob Ames	Incl. Above	\$11,808	\$0	Completed.	(Emergency) Leaking 12" C-900 water main. District contractor exposed and sectioned in a new stick of 12" C-900 to replace the damaged pipe. They then completed the work with pavement restoration.
SC15-027K	7215 Watt Ave., WO# 146435	Bob Ames	Incl. Above	\$3,742	\$0	Completed.	Staff was contacted about a leak at this location. Due to the time of the call and staffs current assignments, this repair was outsourced to a District contractor. This was a leak on an ACP water main at a coupling.
SC15-027L	4930 College Oak WO# 147233	Bob Ames	Incl. Above	\$3,494	\$1	Completed.	Staff identified a 4" service that had failed after hours. Contactor was called to the location and replaced the broken fittings, backfilled and cleaned up the area.
SC15-027M	5791 Haskell Ave., WO# 147169	Bob Ames	Incl. Above	\$11,810	\$0	Completed.	Staff identified a poly service leak that traveled under a driveway. Contractor exposed the main and replaced two services, one short, one long. The long side was bored to the meters location. Concrete was removed and an MLV exposed. Concrete was restored, and box and riser installed.
SC15-027N	6650 Melrose Dr., WO# 147229	Bob Ames	Incl. Above	\$0	\$5,968	Completed.	District staff identified a 4" valve in a drive way that was non-operational nor repairable. This valve was also leaking out of the bonnet, therefore was outsourced to expedite the repair during the drought.
SC15-027O	4753 Heatherbrae Cir., WO# 145121	Bob Ames	Incl. Above	\$0	\$5,122	Completed.	District staff identified a couple of 3/4" service laterals that were failing in need of replacement. This repair was outsourced in order to expedite the repair.
		Subtotal	\$350,000	\$146,237	\$4,415		Total budget, spent to date and additional encumbered funds on SC15-027 projects.
SC15-028	Distribution System Improvements	See Below	\$375,000	See Below	See Below	See Below	Note: New account. Includes funds originally budgeted under O&M Accounts No. 07-54507, 07-54511 and 08-54507. Covers costs for miscellaneous distribution system repairs improvements including new taps/saddles, new water service lines, etc.
SC15-028A	7201 Brattle Court, WO# 139734	Bob Ames	Incl. Above	\$3,400	\$0	Completed.	Staff identified a 8" MLV that was non-operational and in need of replacement. This project will be outsourced to Rawles Engineering.
SC15-028B	6304 Meadow Vista Drive, WO #139306	Bob Ames	Incl. Above	\$2,266	\$0	Completed.	Staff identified a 3/4" service lateral that is failing in need of replacement. This is a long side service which will require boring. This service lateral will be brought up to current District Standards.
SC15-028C	5724 Cypress Avenue, WO# 140083	Bob Ames	Incl. Above	\$25,200	\$0	Completed.	A service lateral is being damage and is failing due to a very large cedar tree and the S/L needs to be relocated in order to proper eliminate this from occurring in the future. As well the S/L to the west is being relocated from the 6" MLS to the 12" ACP water main during this project. Due to Appendix A of Sac. County's Paving requirements, this pavement restoration was more expensive than the actual repair (\$15,900 to \$9,300).
SC15-028D	5110 Auburn Blvd. & 5122 Auburn Blvd., WO#123474 & 140627	Matt Underwood	Incl. Above	\$3,800	\$0	Completed. Scope of work changed. When this was exposed, it was identified that there were two separate copper services. Retrofitted setters on existing copper. Submitted Donated Asset Forms. (2) 1" short side.	Meter angle valve is broken and service cannot be locked off. At this location there is one service lateral that feeds two meters that serve two separate properties. This EA is to upgrade the services to current standards.

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SC15-028-E	7101 Regard Way, WO #140495	Bob Ames	Incl. Above	\$10,550	\$0	Completed.	Staff identified two 12" BFMLV valves that are non-operational or repairable and in need of replacement. This will include tee replacement.
SC15-028-F	3535 Elkhorn Blvd., WO #139364	Bob Ames	Incl. Above	\$0	\$5,600	Work is underway.	Staff identified a gate valve curb stop that is non-operational. Staff will upgrade this poly service lateral to current District Standards. This project has been postponed until a later date.
SC15-028G	2525 Larkspur Lane, WO #140625	Matt Underwood	Incl. Above	\$4,700	\$300	Completed - Sent Donated Asset Form for 2" service.	Districts shutoff valve at the meter is a 2" gate valve that does not close tight. Due to the faulty valve water cannot be turned to this complex. This EA is to upgrade the service to current standards.
SC15-028H	2917 Orange Grove Ave, WO #141040	Matt Underwood	Incl. Above	\$1,500	\$0	Completed. Sent Donated Asset Form for 1" short side service.	SSWD valve at meter is a gate valve and the stem is broken off. Unable to turn off service. Replace 1" service line.
SC15-028I	3902 Annadale Ln, WO #141716/#141717	Matt Underwood	Incl. Above	\$8,400	\$0	Completed. Sent Donated Asset Form for two 2" services.	Intract leak. Customer cannot make repairs due to SSWD gate valves not closing tight on two 2" services. Upgrade services to current standards.
SC15-028J	2826 Marconi Ave WO #139185/#143216	Matt Underwood	Incl. Above	\$9,200	\$0	Completed. Sent Donated Asset Form for two 1" services.	Damaged angle valve. Upgrade services and relocate meters outside of secured area.
SC15-028K	Verner Ave. / Flaming Arrow Dr. WO #142466	Bob Ames	Incl. Above	\$7,100	\$0	Completed.	Staff identified a 12" Butterfly valve off of the 48" T main that is not shutting off and is in need of replacement. This will be accomplished during the T main project due to de-watering.
SC15-028L	5612 Georgia Street Meter Relocation	Patrick Wilson	Incl. Above	\$4,740	\$0	Completed.	During a home improvement project by 5616 Georgia Street the property owner questioned the District as to if the neighbor's meter was on his property. Area West Engineers confirmed via field survey that both meters were on 5616 Georgia's property. Performance Piping was low bid to move the existing meter and install a new in-tract line to the back of the house at 5612 Georgia.
SC15-028M	6507/11 Greencreek	Bob Ames	Incl. Above	\$5,800	\$0	Completed.	Staff identified an 1 1/2" ABS street crossing providing service to two (2) properties. This service is failing and in need of replacement. Staff will have this service replaced with 2 - 1" service laterals and reconnect the existing intracts. Work completed by District contractor.
SC15-028N	7564 Monogram Drive, WO# 143105]	Bob Ames	Incl. Above	\$3,400	\$600	Completed.	Staff identified a failing 1" S/L that is in need of replacement. A District contractor will be used to make this repair.
SC15-028O	Antelope Road CARV, WO#143506	Bob Ames	Incl. Above	\$5,195	\$0	Completed.	This CARV was identified as being buried below grade and without an existing box or snorkel. Rather than put additional funds to bringing to an operational status, staff felt it would be better served to allocate funds for raising it above ground and current standards specs. Therefore this will be a replacement rather than a repair.
SC15-028P	2" CAV Upgrade at 2800 Northrop Ave.	Patrick Wilson	Incl. Above	\$3,150	\$0	Completed.	An existing 2" CAV at 2800 Northrop Avenue was requested to be updated. Rawles Engineering and Performance Piping were asked to provide bids to update the CAV, with Performance being the low bidder. Work will be completed once CAV and new enclosure arrive.
SC15-028Q	4756 Hixson Cir., WO# 143067	Bob Ames	Incl. Above	\$3,200	\$0	Completed.	Staff identified a failing 3/4" S/L that is in need of replacement. A District contractor will be used to make this repair.
SC15-028R	5937 York Glen Wy., WO# 144479	Bob Ames	Incl. Above	\$2,600	\$0	Completed.	Staff identified a 3/4" poly service lateral that has failed and in need of replacement. A District contractor bored in a new 1" poly copper service across the street and upgraded the existing service to District Standards.
SC15-028S	3800 Watt Ave., WO# 137851	Bob Ames	Incl. Above	\$4,725	\$0	Completed.	Staff identified a broken 6" MLV. Contractor excavated and replaced the broken valve (traffic control was required for this work).

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SC15-028T	4700 Marconi Ave., WO# 129835	David Espinoza	Incl. Above	\$22,727	\$0	Completed.	Staff identified a 6" MLV as non-operable. Contractor installed two new MLVs, a section of DIP and TC.
SC15-028U	3671 West Way, WO# 138269	Bob Ames	Incl. Above	\$3,000	\$0	Completed.	Staff identified a 4" MLV as non-operable. Contractor replaced the broken valve.
SC15-028V	3902 Annadale Lane, WO# 141715	Matt Underwood	Incl. Above	\$4,137	\$0	Completed. Sent Donated Asset Form for 1 1/2" service and meter.	Staff is unable to isolate 1-1/2" service to replace inoperable meter due to a faulty gate valve. Contractor upgraded the service to current standards.
SC15-028W	2929 Edison Ave., WO# 144872	Bob Ames	Incl. Above	\$4,200	\$0	Completed.	Staff identified a 2" service lateral with a broken gate valve curb stop that needs replaced. Contractor brought the service line up to current District Standards. The scope of work included asphalt restoration.
SC15-028X	5721 Shadow Creek, WO# 144480]	Bob Ames	Incl. Above	\$1,214	\$0	Completed.	Contractor called to an emergency leak, where they replaced a short side service.
SC15-028Y	5821 Rosebud Ln WO# 145398	Matt Underwood	Incl. Above	\$3,600	\$0	Completed. Sent Donated Asset Form for 1" service.	Meter angle stop is broken and service will need to be upgraded. Meter box is set in a roadway and is also broken and below grade. Work included service upgrade, meter box replacement, and asphalt repair.
SC15-028Z	6646 Melrose, WO# 145440	Bob Ames	Incl. Above	\$10,700	\$0	Completed.	Leaking backyard service. District contractor abandoned this and neighbor's backyard service. They then bored a new street crossing service from the water main in the front yard. Then they bored in a new in-tract line from the meter to the house.
SC15-028AA	President and Harrison, WO# 145614	Bob Ames	Incl. Above	\$8,216	\$0	Completed	There is an old 4" ODS main that was supposed to be abandoned, only the valve was just shut off. A District contractor excavated and removed valve and tee, and they also upgraded the 10" valve that is attached to the fitting to a gate valve from a butterfly valve.
SC15-028AB	5026 Creekview Way, WO# 145911	Bob Ames	Incl. Above	\$9,000	\$2,000	Completed.	Leak on a street crossing service lateral. District Contractor to emergency mobilize and bore in two new service laterals. Price is a not to exceed.
SC15-028AC	Elkhorn & 32nd St., WO# 145384	Bob Ames	Incl. Above	\$1,747	\$0	Completed.	Leak on 8" AC water main. District Contractor excavated and installed 6' of DIP, then backfilled and cleaned up the area.
SC15-028AD	1701 Arden Way, WO# 145745	Bob Ames	Incl. Above	\$18,660	\$0	Completed.	10" Fire Service has no isolation valve. District Contractor will install new 10" isolation valve.
SC15-028AE	5035 Harrison Ave., WO# 135686	Bob Ames	Incl. Above	\$4,050	\$0	Completed.	Broken 6" MLV. District Contractor to replace MLV, and set up traffic control for District staff to operate isolation valve in major thoroughfare.
SC15-028AF	2236 Edison Ave WO# 146180	Matt Underwood	Incl. Above	\$4,200	\$0	Completed. Submitted Donated Asset Form for 2" service.	This 2" service was exposed while GM Construction was upgrading the 4" service next to it. This service was galvanized steel to the main. The service was upgraded while it was exposed.
SC15-028AG	5121 College Oak, WO# 145581]	Bob Ames	Incl. Above	\$15,700	\$1,370	Completed.	Two broken 6" isolation valves for Fire Services. District Contractor will excavate, and replace both valves, provide traffic control, and work during off hours. They will also repave the roadway to County requirements.
SC15-028AH	294 Selby Ranch Rd., WO# 142842 & 146723	Matt Underwood	Incl. Above	\$10,712	\$0	Completed. Submitted Donated Asset Form for (2) 2" services and meters.	Meter gate valve on SSWD side of meter does not work. This meter is side-by-side with another and they are looped downstream of the meter. Upgrade both services to current standards.

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Project No.	Project Name	Responsible Staff	Approved and/or Amended 2015 Budget	CY15 Spent To Date (\$) (Thru 9/30/15)	Remaining Encumbered Funds (\$)	Status Comments	Project Description
SC15-28AI	4975 Jackson Street, WO#144369	Bob Ames	Incl. Above	\$4,300	\$0	Completed.	Staff identified a non-operational nor repairable 6" MLV located in an intersection. Contractor to replace.
SC15-028AJ	905-908 Yorktown Place, WO's 147116, 147117, 147118, 147119	Matt Underwood	Incl. Above	\$439	\$12,800	Completed. Submitted Donated Asset Form for (4) 1" services. Re-used existing meters.	Meter box and service line replacements.
SC15-028AK	5111 College Oak Drive, WO #146234	Bob Ames	Incl. Above	\$25,600	\$0	Completed.	Staff identified a 12" MLV that is broken during a shutdown. This valve is part of a valve package that will be replaced during this valve replacement. Therefore, in total 3 valves were replaced.
SC15-028AL	Wyndgate 2" ARV Replacement	Patrick Wilson	Incl. Above	\$2,265	\$0	Completed.	During inspection a 2" ARV on American River Drive at Wyndgate Drive was found to be valved out. Once it was found that the ARV body was cracked and could not be rebuilt, Performance Piping and Rawles Engineering were asked to bid to replace. Rawles was the low bid and they replaced the ARV with a 2" APCO 145C.
SC15-028AM	5832 Peppermill Abandon Service	David Espinoza	Incl. Above	\$2,600	\$0	Processing invoice.	During the 2014 Meter Retrofit Project, we encountered an abandoned service which was not addressed at the time. We are hiring GM to return to the site and properly abandon the service with a FCRC.
SC15-028AN	5643 Omni Dr., WO#148184	Bob Ames	Incl. Above	\$0	\$3,200	Submitted paper work for approval.	Staff identified a service lateral that is failing and in need of replacement. This is a long side service which requires boring therefore this project will be outsourced. There is another service lateral in the same location, that may result in replacement of this service lateral as well.
Subtotal			\$375,000	\$265,994	\$25,870	Total budget, spent to date and additional encumbered funds on SC15-028 projects.	
SC15-038	Large Water Meter (> 3") Replacement Program	Matt Underwood	\$140,000	\$105,564	\$6,799	[Budget revised from \$140,000 to \$215,000 via budget transfer.] Eight large meter services have been replaced/upgraded.	Consists of the replacement of old large (> 3") water meters that have outlived their useful life. Assumes an average of 5 large meters will be replaced each year. Meter installations will also be upgraded to allow for testing and ease of maintenance. For 2014, an additional \$50,000 has been included in the budget for the installation of meter by passes. This is an ongoing project and work is scheduled according to findings related to the Meter PM Program.
SC15-038A	Large Meters (> 3") AMI Conversion	Matt Underwood	\$75,000	\$66,437	\$1,871	Completed. A total of 430 MTU's were purchased to convert 226 meters to AMI technology. Submitted Donated Asset Form for 430 MTU's.	Consists of converting all meters 3" and above from AMR Drive By meter reading technology to AMI Fixed Network meter reading technology. Approximately 438 total MTU's will be installed on meters to convert to AMI.
Subtotal			\$215,000	\$172,001	\$8,670	Total budget, spent to date and additional encumbered funds on SC15-038 projects.	
SC15-039	Fire Hydrant Replacement / Rehabilitation / Additions	See Below	\$200,000	See Below	See Below	See Below	The 2009 Water System Master Plan identified some areas with insufficient fire flow. This project will bring these areas into compliance with minimum District and fire district standards, especially in those areas where main replacement projects are not scheduled for several years.
SC15-039A	Forcum/Nelson, WO #139561	Bob Ames	Incl. Above	\$7,812	\$0	Completed.	Fire hydrant has been identified as being non-operational/repairable. This will be a complete "T" to hydrant replacement.
SC15-039B	3701 Lowry Drive, WO #138225	Bob Ames	Incl. Above	\$6,276	\$0	Physical work completed February 6, 2015. Processed invoice on 2/18/2015.	Staff identified a leak on the 4" riser of a wharf fire hydrant that doesn't have an isolation valve. This wharf will be replaced with a complete steamer fire hydrant per District Standards. Additional work was necessary due to a concrete flag had to be removed to accomplish this replacement.

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Project No.	Project Name	Responsible Staff	Approved and/or Amended 2015 Budget	CY15 Spent To Date (\$) (Thru 9/30/15)	Remaining Encumbered Funds (\$)	Status Comments	Project Description
SC15-039C	2247 Royale Rd., WO# 138418	Bob Ames	Incl. Above	\$10,410	\$10,410	Completed.	Staff identified a fire hydrant isolation valve broken in the open position and in need of replacement. Due to close proximity of other appurtenances additional fittings and valves will be replaced. This will be a complete fire hydrant replacement and upgrade. Work is scheduled for January 27, 2015.
SC15-039D	Forcum/Nelson, WO #140586	Bob Ames	Incl. Above	\$7,812	\$0	Completed.	Fire hydrant has been identified as being non-operational/repairable. This will be a complete "T" to hydrant replacement. District contractor replaced fire hydrant and submitted billing on 4-8-2015. Processed invoice for payment.
SC15-039E	Bldg. #1074, WO #141475	Bob Ames	Incl. Above	\$13,005	\$0	Completed.	Staff identified a low-profile hydrant located on the Tarmac that is not operational nor repairable. Staff is submitting paperwork for the approval process. Cost of job increased by \$930 due to depth and inaccurate mapping. Actually 10" ACP therefore, additional expense for larger size fitting.
SC15-039F	2260 Park Towne Cir., WO #141841	Bob Ames	Incl. Above	\$6,550	\$0	Completed.	Staff was contacted by a customer indicating the fire hydrant in front of her house is leaking. Staff assessed and determined that it was leaking, attempted to flush and reseal the dry barrel seat to no avail. This hydrant was extremely old, not up to current specs and could not find replacement parts. Therefore, FH recommended for replacement and upgrade. Contractor scheduled to perform replacement.
SC15-039G	4250 Roseville Rd., WO #139953	Bob Ames	Incl. Above	\$7,417	\$0	Completed.	Staff identified a non-operable valve that is broken and need of replacement. Due to the location of the valve to the fire hydrant, age and not being up to current specs. This hydrant will be replaced during the valve replacement.
SC15-039H	5165 Pasadena Ave., WO #128069	Bob Ames	Incl. Above	\$4,640	\$0	Completed.	Staff identified a conflict between a tree and fire hydrant. Due to the growth of the tree the hydrant is non-operable nor repairable in the location it is. This hydrant is extremely old, and parts are no longer available therefore the fire hydrant will be replaced during the relocation closer to the county roadway. Contractor will remove as much of the existing infrastructure from conflict with the tree as long as the integrity of the tree is not compromised.
SC15-039I	4878 Pasadena Ave., WO# 143474	Bob Ames	Incl. Above	\$8,840	\$0	Completed.	Staff identified a non-operable fire hydrant that is broken and need of replacement. There is a 2" service lateral tapped next to the "T" for the hydrant and will need to be relocated for the replacement of the hydrant.
SC15-039J	5147 Madison Ave., WO#143784	Bob Ames	Incl. Above	\$4,590	\$0	Completed.	Staff identified a fire hydrant that was hit by car causing damage to the bury. A District contractor will replace the hydrant and install 2 bollards.
SC15-039K	1150 Clinton Dr.	Bob Ames	Incl. Above	\$6,550	\$0	Completed.	Staff identified a non-operational FH and are unable to locate parts to make repairs. Contractor to perform replacement as a hydrant complete as part of the WSA 2015.
SC15-039L	4715 Greenholme Drive, WO#145540	Bob Ames	Incl. Above	\$6,900	\$0	Completed.	Staff identified a non-operable nor repairable FH. A district contractor will perform the replacement.
SC15-039M	2052 Fulton Ave. WO# 145479	Bob Ames	Incl. Above	\$6,095	\$0	Completed.	Staff identified broken and leaking FH. A District Contractor will set up traffic control and replace the hydrant bury.
SC15-039N	4554 Auburn Blvd. WO# 147694	Bob Ames	Incl. Above	\$5,490	\$0	Completed.	Staff identified a fire hydrant that was hit by a car and not reported. Therefore, there is no CHP report or pertinent information. A District contractor will make repairs.
SC15-039O	5316 Roseville Rd. WO# 147317	Bob Ames	Incl. Above	\$3,990	\$0	Completed.	FH was involved in a traffic accident, Contractor will excavate and replace the hydrant and bury.

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Project No.	Project Name	Responsible Staff	Approved and/or Amended 2015 Budget	CY15 Spent To Date (\$) (Thru 9/30/15)	Remaining Encumbered Funds (\$)	Status Comments	Project Description
SC15-039P	Melrose & Larchmont W/O#147045	Bob Ames	Incl. Above	\$16,759	\$0	Completed.	This fire hydrant was hit by a vehicle after hours. There was not a isolation valve and was causing significant damage to the roadway and concrete walk way. This required an emergency shutdown and issuance of an outsourced emergency repair. Contractor cleaned up the area of all spoils that were covering the road as well as replaced approximately 5 flags of sidewalk.
		Subtotal	\$200,000	\$123,136	\$10,410		Total budget, spent to date and additional encumbered funds on SC15-039 projects.
STORAGE & DISTRIBUTION							
SC15-034	Corrosion Control and Reservoir and Tank Painting/Coating, Upgrades and Improvements	See Below	\$300,000	\$0	\$0	[Budget revised from \$150,000 to \$300,000 via budget transfer.] See Below	Note: Includes funds originally budgeted under O&M Account 06-54508. Transmission mains, storage and hydropneumatic tanks, and corrosion control facilities are on a scheduled maintenance program for inspection, testing, and recoating as necessary. For 2015, planned work includes ground storage tank inspections, cleaning and spot painting and repairs at the [Antelope and Watt/Elkhorn Reservoirs] and painting at miscellaneous well sites, including coating of hydropneumatic tanks. Coating work will be performed as necessary based on inspection results. Also included are structural engineering inspections and analysis of the District's three elevated water tanks.
SC15-034A	Corrosion Control - CMLC Water Mains	Patrick Wilson	\$50,000	\$14,801	\$28,420	JDH is completing tank inspections the week of October 12th. Additionally, design on the Conveyance system is 90% complete.	The District is moving forward with acquiring well drilling permits for the Conveyance Pipeline to install five new anode wells. Additionally, the District is working with SMUD to acquire power for each of the five sites. AWE is working on collecting any necessary easements for all rectifier locations. JDH Corrosion is working with SMUD to finalize drawing set. SMUD has re-designed two rectifier locations requiring additional design work.
SC15-034C1	Hydraulic Improvements at Elevated Tanks #216, 769, and Capehart	Patrick Wilson/ David Bruns	Incl. Above	\$202,406	\$69,166	CAPEHART - Work is completed. Start-up and testing scheduled for 10/13/2015. #769 - Work is 95% Completed. Kirby Pump and Mechanical has been given a punch list in order to complete project to 100%. Once work is 100% complete, Production Staff will schedule start -up and testing . #216 - Work is 95% Completed. Kirby Pump and Mechanical has been given a punch list in order to complete project to 100%. Once work is 100%complete, Production Staff will schedule start-up and testing.	Affinity Engineering has designed hydraulic improvements for the Elevated Tanks #216, 769, and Capehart to make them in compliance with DDW inspection requirements. Kirby Pumps and Prodigy Electric are performing the work. Construction work started in January 2015.
SC15-034D1	Antelope Reservoir Flow Meter Replacement	Patrick Wilson	Incl. Above	\$0	\$0	Need to order the new flow meter. This project is a winter project.	The flow meter at the Antelope Reservoir is not working properly and needs to be replaced. Due to backorder constraints and lead time, the flow meter will be purchased in early 2015 and the design work and construction will occur in 2015.
		Subtotal	\$350,000	\$217,207	\$97,586		Total budget, spent to date and additional encumbered funds on SC15-034 projects.
SPECIAL PROJECTS							
SC15-035	Professional/ Special Services	See Below	\$200,000	See Below	See Below	See Below	Includes potential professional services for CEQA Work, Preliminary Design, Special Studies, Hydraulic Modeling, Surveying, etc.
SC15-035B	2015 Conveyance Rectifier Easements	Patrick Wilson	Incl. Above	\$2,253	\$6,748	Area West Engineers is collecting title reports to determine the District's existing easements for 3 rectifier sites.	This is a task order for Area West to determine the limits for three easements to install new rectifiers on the Conveyance Pipeline at the following locations: Old Auburn Road and Antelope Road/Purslane Way/Don Julio Way and Antelope Road.
SC15-035C	7800 Antelope North Storm Drain Easement	Patrick Wilson	Incl. Above	\$0	\$1,500	Completed.	To draft an easement for the County Storm Drain in the District's property.

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Project No.	Project Name	Responsible Staff	Approved and/or Amended 2015 Budget	CY15 Spent To Date (\$) (Thru 9/30/15)	Remaining Encumbered Funds (\$)	Status Comments	Project Description
SC15-035D	Research For Property Acquisition Antelope North Road	Dave Jones	Incl. Above	\$0	\$7,605	Completed. Area West Engineers has acquired an appraisal for the property in question.	This is research for a potential lot purchase north of the Antelope PRV station for a new well and storage facility.
SC15-035G1	Elevated Water Tank Analysis and Improvements	Patrick Wilson	Incl. Above	\$11,142	\$0	Affinity's design is complete. As-builts will be completed with completion of construction.	Based on a CDPH inspection, three of the District's elevated water storage tanks have operational issues and common inlet/outlet designs that may pose water age problems. According to CDPH, "All new reservoirs must have a separate inlet and outlet. Since these are existing tanks, SSWD should submit an operational plan that shows how the water in the tanks will be routinely cycled to minimize water stagnation." New booster pumps are proposed to allow the water in the tanks to be cycled in/out on a daily basis. Affinity Engineering has completed design for the three tanks and construction will take place in January 2015.
SC15-035H1	Auburn Corp. Yard Property Line Adjustment	Dave Jones	Incl. Above	\$0	\$19,386	Completed. A task order was approved with Area West Engineering in the amount of \$38,000.	Work related to potential parcel split and sale of unused parcels.
SC15-035J1	Review of District Regulations and Improvement Standards	David Espinoza/ Patrick Wilson	Incl. Above	\$16,575	\$2,549	Completed. Revised Regulations approved by Board in June. The work by CE has been completed. Staff working on finalizing Improvement Standards.	The District hired Coleman Engineering (CE) to review the District's Regulations Governing Water Service and Improvement Standards and Technical Specifications. The goal is to align the District's standards with others. The contract with Coleman Engineering is dated November 19, 2014, in the amount of \$25,000. The work by CE has been completed.
		Subtotal	\$200,000	\$29,969	\$37,788		Total budget, spent to date and additional encumbered funds on SC15-035 projects.
CONJUNCTIVE USE							
SC15-043	Antelope Pump Back Project - "Pump Around" Component (SSWD)	Dave Jones	\$700,000	\$583,847	\$59,430	[Budget revised from \$360,000 to \$700,000 via budget transfer.] Construction work with W.M. Lyles Co. as the general contractor is now approximately 95% complete. A required 5-day performance test of the pump station began on September 28th with both the pump-around and pump-back scenarios being tested. There were some workable glitches discovered during the testing of all systems. Overall, the project is successful. During the test, the District was able to pump over 10 million gallons to SJWD at a rate of approximately 10,000 gallons per minute (gpm). After fine tuning the new equipment, system pressures were well maintained throughout the District's North Service Area during the testing. Construction work continues with W.M. Lyles currently completing punch list items.	This project will construct a pump station to pump up to 10,000 gpm to the San Juan Water District (SJWD) during emergency water supply situations. Notice to Proceed for construction was issued to W.M. Lyles on December 10, 2014.
SC15-043A	Antelope Pump Back Project - "Pump Back" Component (SJWD)	Dave Jones	\$0	\$1,591,743	\$180,754	See above.	See above.
SC15-044	Capital Improvements to CTP (SJWD)	John Valdes	\$7,000	\$0	\$0	Still waiting to be invoiced by SJWD.	District's cost share (owed to San Juan Water District) for Cooperative Transmission Pipeline (CTP) Corrosion Testing for 2015.

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Project No.	Project Name	Responsible Staff	Approved and/or Amended 2015 Budget	CY15 Spent To Date (\$) (Thru 9/30/15)	Remaining Encumbered Funds (\$)	Status Comments	Project Description
SC15-045	Enterprise Intertie Improvements	John Valdes	\$52,000	\$0	\$0	City of Sacramento has now agreed to pay for 100% of local (non-grant) cost share. A cost sharing agreement is being prepared for Board approval.	This project would improve regional supply reliability and promote conjunctive use. SSWD has an existing intertie with the City of Sacramento at SSWD's Enterprise Reservoir site. This intertie was originally designed for SSWD to take delivery of treated surface water purchased from the City of Sacramento. With the addition of some piping, a control valve and instrumentation and controls, this intertie could also be used for SSWD to deliver excess groundwater supplies to the City of Sacramento in dry years, thereby promoting conjunctive use. It is estimated that an instantaneous supply of as much as 20.0 mgd could be made available for delivery to the City. Over a 90-day summer period, an estimated 5,850 acre-feet (AF) could be delivered to the City through the intertie. This would be excess fluoridated groundwater from SSWD's South Service Area (SSA). The estimated total project cost is \$178,700 but a Prop. 84 Drought Implementation Grant in the amount of \$110,625 has been tentatively awarded by the Dept. of Water Resources (DWR).
Totals			\$18,407,000	\$12,269,493	\$4,847,710		



Agenda Item: 21

Date: October 5, 2015

Subject: Notice of Violation Update – Central Valley Regional Water Quality Control Board

Staff Contact: Dan York, Assistant General Manager

Background

Through several iterations of federal water quality laws, almost all commercial water discharges that enter the waters of the United States are regulated by the U.S. Environmental Protection Agency. In California, the administrative authorities to enforce federal and state water discharge law are the nine Regional Water Quality Control Boards. The District is covered by the Central Valley Regional Water Quality Control Board (RWQCB). Currently, the main mechanism for enforcement is via various permit types based on the discharge criteria. Most of the RWQCB enforcement efforts deal with specific projects or wastewater treatment facilities. The discharge of treated drinking water is a minor component to the RWQCB activities due to the low risk associated with these discharges. The state has adopted several Orders in the past to regulate minor dewatering and other low threat discharges that enter into surface water sources. In June, 2000, RWQCB adopted a Waste Discharge Requirements General Order (General Order) under which the District had applied and received coverage for all of its planned discharge practices. On June 12, 2008, the RWQCB adopted a revision to the Low Threat Discharge Permit by creating a Limited Threat General Order which requires much more extensive initial analytical screening of California Toxic Rule constituents, and application preparation.

One of the provisions of the revised Low Threat General Order allowed the RWQCB to accept the District's Pollution Prevention, Monitoring, and Reporting Plan (PPMRP) in lieu of the monitoring and some of the reporting requirements as specified in the General Order. The RWQCB approved the District's PPMRP and District staff continued to collect samples, record all discharges, and submit quarterly self-monitoring reports, as has been the practice since 2000.

In February 2015, the State Water Resources Control Board adopted a new Order specifically for drinking water system discharges to Waters of the United States. The District has submitted a Notice of Intent to the RWQCB for the new Order. Once approved, this Order will replace all existing RWQCB discharge permits as of its effective date.

Discussion

On July 2, 2015, the District received correspondence from the RWQCB (see Exhibit 1) regarding the review of the self-monitoring reports (SMRs) for the Second Quarter 2014, Third

Quarter 2014, and Fourth Quarter 2014 monitoring periods. This review identified issues that resulted in three separate Monitoring and Reporting (MRP) violations. The RWQCB requested a response indicating what actions had or would be taken to address the violations, or to provide an explanation and supporting information should the District disagree with the violations cited.

Staff generated a response letter to address the violations (see Exhibit 2) that provided and clarified important information relative to each of the events listed and demonstrated the District's compliance with the NPDES Water Discharge Requirements' (WDRs) monitoring and reporting program. The response letter was delivered on July 17, 2015.

On September 21, 2015, the District received correspondence from the RWQCB (see Exhibit 3) that indicated that there were no violations of the WDRs or MRP identified in the review of the self-monitoring reports for the SMRs for the First Quarter 2015 and Second Quarter 2015 monitoring periods. Furthermore, as a result of a re-review by RWQCB staff of the SMRs for the Second Quarter 2014, Third Quarter 2014, and Fourth Quarter 2014 monitoring periods, two of the three violations have been dismissed. However, the third violation will remain as a deficient monitoring violation for failing to document total chlorine residual during a flushing event at Kapa Court on April 7, 2014. The District has not yet been notified by the RWQCB if monetary penalties will be assessed as a result of this violation. Staff will apprise the Board of the subject issue if it proceeds forward.



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

30 June 2015

James Arenz
Operations Manager
Sacramento Suburban Water District
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SELF-MONITORING REPORT REVIEW AND NOTICE OF VIOLATION, SACRAMENTO SUBURBAN WATER DISTRICT, WATER DISTRIBUTION SYSTEM MAINTENANCE PROJECT, SACRAMENTO COUNTY

The Sacramento Suburban Water District (Discharger) is enrolled under R5-2013-0074-028 (NPDES CAG995001), *Waste Discharge Requirements for Dewatering and Other Low Threat Discharges to Surface Waters* (Low Threat General Order) for the Water Distribution System Maintenance Project. The Monitoring and Reporting Program (MRP) of the WDRs requires monitoring for constituents and other parameters and specifies the location and frequency of monitoring. Central Valley Water Board staff has reviewed the self-monitoring reports (SMRs) submitted by the Discharger for the **Second Quarter 2014, Third Quarter 2014, and Fourth Quarter 2014** monitoring periods.

Review of the SMRs identified the following violations:

Monitoring and Reporting Violations

The following MRP violations occurred during the monitoring periods:

Table A. Monitoring and Reporting Violations

Monitoring Period	Monitoring Location	Parameter	Units	Required Monitoring Frequency	Reported Monitoring Frequency	CIWQS
7 April 2014	7979 Kapa Court	Total Chlorine Residual	mg/L	1/Discharge event	0/Discharge event	992335
Second Quarter 2014	Well # N1	BOD	mg/L	1/Quarter	0/Quarter	
		SS	mL/L			
Second Quarter 2014	Well N20A	TSS	mg/L	1/Quarter	0/Quarter	
		BOD	mg/L			
Third Quarter 2014	Well WE45	SS	mL/L	1/Quarter	0/Quarter	992336
		TSS	mg/L			
		BOD	mg/L			

Monitoring Period	Monitoring Location	Parameter	Units	Required Monitoring Frequency	Reported Monitoring Frequency	CIWQS
Fourth Quarter 2014	Well # N1	BOD	mg/L	1/Quarter	0/Quarter	992337
		SS	mL/L			
		TSS	mg/L			
12/3/2014	Well #31A	Total Chlorine Residual	mg/L	Every ten minutes per discharge	1/Discharge event	
12/4/2014	Well #31A	Total Chlorine Residual	mg/L	Every ten minutes per discharge	1/Discharge event	
12/5/2014	Well #31A	Total Chlorine Residual	mg/L	Every ten minutes per discharge	1/Discharge event	
12/9/2014	Well #31A	Total Chlorine Residual	mg/L	Every ten minutes per discharge	1/Discharge event	
12/10/2014	Well #31A	Total Chlorine Residual	mg/L	Every ten minutes per discharge	1/Discharge event	
12/29/2014	Well #31A	Total Chlorine Residual	mg/L	Every ten minutes per discharge	1/Discharge event	
12/30/2014	Well #31A	Total Chlorine Residual	mg/L	Every ten minutes per discharge	1/Discharge event	

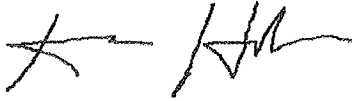
In addition, Central Valley Water Board staff has the following comments from review of the SMRs:

Comments Regarding the SMRs

1. In the Second Quarter 2014 SMR, on 21 May 2014, the Discharger reported BOD, SS, and TSS samples for the Freeway location as N23A on the Pump to Waste (PTW) data sheet. However, BSK Associates lab analysis sheet states that the PTW location is N32A. Board staff is aware that N32A is Poker Lane and that N23A is the Freeway well.
2. The Discharger submitted BSK Associates lab analysis sheets that indicate a discharge location name different than the one given by the Discharger. For example, in the Second Quarter 2014 SMR, the Discharger reports two hydrant names as FH5 and FH6, while BSK Associates reports the same hydrants as NPDES-44 // HY 3264 and NPDES-45 // HY 934 in the lab analysis sheet. In future submittals, please ensure the lab analysis sheet indicates the correct location name.

Please respond by **17 July 2015**, indicating the actions that have been implemented, or will be implemented, to address the MRP violations cited above and to prevent future similar violations. The response may also include a discussion of any uncommon or unusual circumstances that resulted in a violation and which may suggest that reoccurrence of violations would be unlikely. If you disagree with the violation cited above, please provide an explanation and any supporting information necessary.

If you have any questions, please contact Lucio Orellana at (916) 464-4660 or by email at lorellana@waterboards.ca.gov.

A handwritten signature in black ink, appearing to read 'Kari Holmes', with a stylized, cursive script.

KARI HOLMES, P.E.
Senior Water Resource Control Engineer
NPDES Compliance and Enforcement Unit



July 16, 2015

Ms. Kari Holmes, P.E.
Senior Water Resource Engineer
NPDES Compliance and Enforcement Unit
Central Valley Regional Water Quality Control Board
11020 Sun Center Drive #200
Rancho Cordova, CA 95670

Re: Self-Monitoring Report Review and Notice of Violation, Sacramento Suburban Water District, Water Distribution System Maintenance Project, Sacramento County

Dear Ms. Holmes:

This letter represents Sacramento Suburban Water District's (SSWD) response to the Central Valley Regional Water Quality Control Board's (CVRWQCB) letter, *Self-Monitoring Report Review and Notice of Violation, Sacramento Suburban Water District, Water Distribution System Maintenance Project, Sacramento County*, dated June 30, 2015. The CVRWQCB letter includes a table of events that are described as "Monitoring and Reporting Violations" (Table A).

Each event listed in Table A is associated with a specific discharge performed by SSWD during the second, third and fourth quarters of 2014. General Order R5-2013-0074-028 (NPDES CAG995001) covers all the discharges listed. The CVRWQCB letter also includes other comments requiring clarification concerning specific issues in SSWD's Self-Monitoring Reports. This letter provides and clarifies important information relative to each of those events and demonstrates SSWD's compliance with the NPDES Waste Discharge Requirements' (WDRs) monitoring and reporting program.

4949 Kapa Court

Table A, of the CVRWQCB's letter shows total chlorine residual reporting for the discharge that occurred at 4949 Kapa Court (referred to as 7979 Kapa Ct in the CVRWQCB's June 30, 2015 letter) as being absent. The Distribution System Operator who performed the discharge documented the frequency of total chlorine residual readings; however, he failed to document the chlorine residual at the time collected. SSWD's Field Operations staff employs robust Best Management Practices (BMPs) prior to all planned discharges. Data collected by Field

Operations staff during those discharges routinely shows the BMPs employed exceed that required for complete neutralization of sodium hypochlorite (chlorine) and retention of any turbidity or suspended solids that may be present in the discharge.

As part of SSWD’s routine efforts to consistently review existing processes and improve them as appropriate, late last year enhancements were made to specific fields on the General Discharge Form that prevent SSWD staff from exiting the form until those fields are populated. The total chlorine residual is one of those fields that must be populated.

Discharge Types – Background

The discharges described in SSWD’s Pollution Prevention, Monitoring and Reporting Plan (PPMRP) can be grouped into three main categories. Each Discharge Category has “Target Contaminants” with specific monitoring requirements. SSWD and CVRWQCB staff created a fourth Discharge Category that is discussed in correspondence included as Attachment 1. The four main Discharge Categories include;

1. Automated Raw Water: Discharges of raw (unchlorinated) well water during pump start-up
2. Operator-Initiated Raw Water: Discharges of raw (un-chlorinated) well water
3. Chlorinated Water: Discharges of chlorinated water from various facilities and,
4. Operator-Initiated discharges of raw (un-chlorinated) well water for extended periods.

Table 1- Discharge Details (shown below) summarizes the monitoring requirements associated with each Discharge Category. Table 1 also groups various Discharge Types performed by water purveyors into the four main categories. The various Discharge Types listed in Table 1 include those discussed in SSWD’s PPMRP.

TABLE 1- DISCHARGE DETAILS

Discharge Category	Target Contaminants	Monitoring Frequency/ Requirements	Discharge Types	Comments
Automated Raw Water	BOD, SS, TSS	1/Quarter	Well Pump-to-Waste (PTW) (automated operation). Low volume, short duration	Includes wells listed in PPMRP where automated PTW is present <u>and</u> operational. Representative sampling
Operator-Initiated Raw Water	Total Chlorine Residual, (Visual) Turbidity & Settleable Material	Every 10 minutes per Discharge	Well Rehab, Well Development, Raw Water (Well) PTW (generally for sampling and water quality purposes).	May include above locations where automated PTW is inoperable and/or discharge is assoc. with maintenance/ sampling. Note: All water is PTW

Chlorinated Water	Total Chlorine Residual, (Visual) Turbidity & Settleable Material	Every 10 minutes per Discharge	Tank/Reservoir, Dewatering, Constr Dewatering, Pipe/Tank Testing, Distr Flushing, Fire Flow Testing, Large Meter Testing, Down-Hole Well Disinfection (PTW)	All discharges require <u>de-chlorination</u> . All water is directed to the storm drain system (wasted). Down-Hole Well Disinfection water is PTW
Operator-Initiated Raw Water (Extended)	Total Chlorine Residual, (Visual) Turbidity & Settleable Material	Once during first 20 minutes of Discharge (see Attachment 1)	Well Rehab, Well Development, Pump Test/Aquifer Test	In general, long-term and high volume discharges. Note: All water is PTW

1. At facilities with discharges in that Discharge Category and that Discharge Type

Discussion of Events in Table A

The following text further clarifies specific details associated with SSWD's monitoring and reporting for each of the locations listed in Table A of the CVRWQCB's June 30, 2015, letter. The discussion that follows under each well demonstrates that SSWD conducted the correct monitoring and reporting for each discharge listed.

Well N1

Table A, Monitoring and Reporting Violations, of the CVRWQCB's letter shows Well N1 as having no BOD, SS and TSS results for the Second and Fourth Quarters of 2014. SSWD submitted General Discharge Forms for the two quarters of reference that show Discharge Types as; "Well Pump-to-Waste." Well N1 is an Operator-Initiated PTW well that does not have automated PTW functionality. As such, compliance monitoring is in accordance with the second Discharge Category and the corresponding Discharge Types listed in Table 1 (above) and SSWD's PPMRP.

Well 20A

Table A, Monitoring and Reporting Violations, of the CVRWQCB's letter shows Well N20A (actually Well 20A) as having no BOD, SS and TSS results for the Second Quarter of 2014. SSWD submitted a General Discharge Form for the Second Quarter of 2014 that shows the Discharge Type as; "Well Pump-to-Waste." Well 20A is an Operator-Initiated PTW well that does not have automated PTW functionality. As such, compliance monitoring is in accordance with the second Discharge Category and the corresponding Discharge Types listed in Table 1 (above) and SSWD's PPMRP.

Well 45

Table A, Monitoring and Reporting Violations, of the CVRWQCB's letter shows Well 45 as having no BOD, SS and TSS results for the Third Quarter of 2014. SSWD submitted a General Discharge Form for the Third Quarter of 2014 that shows the Discharge Type as; "Well Pump-to-Waste." Well 45 is an Operator-Initiated PTW well that does not have automated PTW functionality. As such, compliance monitoring is in accordance with the second Discharge Category and the corresponding Discharge Types listed in Table 1 (above) and SSWD's PPMRP.

Well 31A

Table A, Monitoring and Reporting Violations, of the CVRWQCB's letter shows Well 31A as having seven events with deficient total chlorine residual monitoring during December 2014. SSWD submitted General Discharge Forms for each event that shows the Discharge Type as "Well Development." As noted in the section above titled "Types of Discharges – Background," SSWD and CVRWQCB staff created a fourth Discharge Category (Operator-Initiated Raw Water) that reduced the monitoring frequency from "Every 10 minutes per Discharge" to "Once within the first 20 minutes per discharge." As indicated in the SSWD/CVRWQCB email included as Attachment 1, this Discharge Category was created to cover extended duration, high volume, pump-to-waste discharges typically associated with the well rehabilitation and well development Discharge Types. In summary, the monitoring and reporting for the December 2014 discharges at Well 31A are in accordance with the fourth Discharge Category and associated Discharge Types listed in Table 1 and the correspondence included as Attachment 1.

Response to Comments Regarding the Self-Monitoring Reports (SMRs)

The June 30, 2015, CVRWQCB letter includes "Comments Regarding the SMRs" that call attention to two issues requiring clarification in SSWD's SMRs. The letter requests that lab analysis sheets for specific locations correspond with those referenced in SSWD's SMRs.

In the first issue listed, CVRWQCB staff notes a discrepancy between the location cited on SSWD's PTW data sheet (and chain-of-custody [COC]) for Well N23A and that reported by the lab (Well N32A) on the analysis sheet. BSK Labs has provided a revised analysis sheet (Attachment 2) that reflects the monitoring location (Well N23A) specified on the PTW data sheet and SSWD's COC.

The second issue listed discrepancies between the names of sample locations on SSWD's COCs and those listed on the lab analysis sheets. SSWD reviewed the concern noted by CVRWQCB staff and found that while requisite monitoring at fire hydrants was completed at the correct locations, there is variability in the manner that the fire hydrants are referenced in SSWD's SMR. As requested, SSWD will endeavor to use a common name for each fire hydrant, or better cross-reference the names currently in use.

If you have any questions concerning the details discussed in this letter, or need further assistance, please feel free to call me at 916-679-2880 or e-mail me at jarenz@sswd.org.

Thank you,

A handwritten signature in black ink, appearing to read "James Arenz". The signature is fluid and cursive, with a large initial "J" and "A".

James Arenz
Operations Manager

Enclosures: Attachment 1 – Email Correspondence
Attachment 2 – Revised Analysis Sheet

cc: Rob Roscoe, General Manager, SSWD
Dan York, Assistant General Manager, SSWD

ATTACHMENT 1

**SSWD/CVRWQCB EMAIL CORRESPONDENCE- REVISED MONITORING
REQUIREMENTS FOR WELL REHABILITATION AND WELL DEVELOPMENT**

From: Morgan, Nichole@Waterboards [mailto:Nichole.Morgan@waterboards.ca.gov]
Sent: Tuesday, June 17, 2014 8:39 AM
To: Dan York
Cc: Orellana, Lucio@Waterboards
Subject: RE: NPDES Permit - CAG995001 - PPMRP Modification Request

Hi Dan,

We will consider your PPMRP revised as requested below on 16 June 2014. Please feel free to contact me with any questions.

Nichole Morgan, P.E.
Senior Water Resource and Control Engineer NPDES Compliance and Enforcement Unit

Phone: (916) 464-4623
Fax: (916) 464-4681

-----Original Message-----

From: Dan York [mailto:dyork@sswd.org]
Sent: Monday, June 16, 2014 2:48 PM
To: Morgan, Nichole@Waterboards
Subject: NPDES Permit - CAG995001 - PPMRP Modification Request

Hi Nichole,

The Sacramento Suburban Water District is requesting to modify its Pollution Prevention, Monitoring and Reporting Plan (PPMRP) for monitoring total chlorine when conducting Well Rehabilitation/Development discharges of raw water.

In Section II. Monitoring and Reporting Program, of the PPMRP, the District is required to monitor the total chlorine of the raw water every 10 minutes prior to the discharge water entering the storm drain inlet. The discharge point of the raw water is prior to the chlorine injection point. In fact, there is a physical air gap between the discharge point and chlorine injection point due to the Well Rehabilitation/Development process. The District is requesting to modify the last sentence in this section, under both Well Rehabilitation and Well Development, to read as follows:

"District staff will collect one total chlorine sample from the raw water within 20 minutes of the discharge, per discharge event."

Please let me know if you need additional information.

Thank you very much for considering our request to modify the PPMRP for raw water discharges.

Regards,

Dan York
Assistant General Manager
Sacramento Suburban Water District
3701 Marconi Avenue, Suite 100
Sacramento, CA 95821
916-679-3973 (Office)
916-972-7639 (Fax)

-----Original Message-----

From: Morgan, Nichole@Waterboards [mailto:Nichole.Morgan@waterboards.ca.gov]

Sent: Monday, June 16, 2014 1:28 PM

To: Dan York

Subject: FW: NPDES Permit - Well Development

Hi Dan,

As discussed, please email me a request to modify your PPMRP to allow you to monitor for chlorine once per discharge event verses every ten minutes when discharging raw water.

Nichole

-----Original Message-----

From: Dan York [mailto:dyork@sswd.org]

Sent: Friday, June 13, 2014 5:33 PM

To: Laputz, Adam@Waterboards

Subject: NPDES Permit - Well Development

Hi Adam,

I realize you are currently busy with the statewide permit, but I am following up on our conversation a few weeks ago about possibly amending our existing permit to allow us to not have to monitor chlorine residual every 10 minutes while pumping to waste raw water. Do you think it is worth the effort, or should we just wait. Look forward to hearing your thoughts and input.

Thanks,

Dan

Sent from my Verizon Wireless 4G LTE smartphone

ATTACHMENT 2

REVISED ANALYSIS SHEET- 5/21/2014 SAMPLE FROM WELL N23A



A4E1913
 General - NR
 NPDES

Certificate of Analysis

Sample ID: A4E1913-01
 Sampled By: Tom E. Dickinson
 Sample Description: NPDES-50 // N23A

Sample Date - Time: 05/21/14 - 09:00
 Matrix: Water
 Sample Type: Grab

BSK Associates Fresno
 General Chemistry

Analysis	Method	Result	RL	Units	RL Multiplier	Batch	Prepared	Analyzed	Qual
Biochemical Oxygen Demand	SM 5210B	ND	1.0	mg/L	1	A406424	05/22/14 14:20	05/27/14	
Settleable Solids	SM 2540F	ND	0.10	mL/L/hr	1	A406397	05/22/14 13:35	05/22/14	
Total Suspended Solids	SM 2540D	ND	5.0	mg/L	1	A406451	05/23/14	05/28/14	

COPY



EDMUND G. BROWN JR.
GOVERNOR



MATTHEW RODRIGUEZ
SECRETARY FOR ENVIRONMENTAL PROTECTION

Central Valley Regional Water Quality Control Board

RECEIVED

15 September 2015

SEP 21 2015

James Arenz
Operations Manager
Sacramento Suburban Water District
3701 Marconi Avenue, Suite 100
Sacramento, CA 95821-5346

SELF-MONITORING REPORT REVIEW, SACRAMENTO SUBURBAN WATER DISTRICT, WATER DISTRIBUTION SYSTEM MAINTENANCE PROJECT, SACRAMENTO COUNTY

The Sacramento Suburban Water District (SSWD) is enrolled under Order R5-2013-0074-028 (NPDES CAG995001), *Waste Discharge Requirements for Dewatering and Other Low Threat Discharges to Surface Waters (WDRs)*, for its Water Distribution System Maintenance Project. The Monitoring and Reporting Program (MRP) of the WDRs requires monitoring for constituents and other parameters and specifies the location and frequency of monitoring. Central Valley Water Board staff has reviewed the self-monitoring reports (SMRs) submitted by the Discharger for the **First Quarter 2015** and **Second Quarter 2015** monitoring periods.

No violations of the WDRs or MRP were identified from the review of the above SMRs.

Area of Concern

Board staff is concerned that the Discharger is not properly reporting the MDLs and RLs in the SMRs (Table A). MRP section X.B.4. states "*The Discharger shall report with each sample result the applicable Reporting Level (RL) and the current Method Detection Limit (MDL), as determined by the procedure in 40 CFR Part 136...*"

Table A. Area of Concern

Parameter	MDL Reported	RL Reported	Reports
Total Chlorine Residual	Not Reported	Not Reported*	First Quarter 2015
			Second Quarter 2015

*WDRs Table E-2, Footnote 4, requires a minimum RL = 0.08 mg/L.

Comment Regarding the SMRs

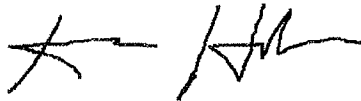
1. Thank you for clarifying SSWD's discharge categories and types. However, it was unclear to Board staff which wells are automated, not automated, or operator initiated. In future SMR submittals, please clarify in the comment box of SSWD's discharge forms the discharge category, particularly if it was operator initiated.

2. In the First Quarter 2015 SMR, the Discharger reduced the font on SSWD's Pump to Waste spreadsheet. In future SMR submittals, please submit normal size pages to facilitate Board staff's review.

Comment Regarding the Notice of Response

Board staff re-reviewed the Second Quarter 2014, Third Quarter 2014, and Fourth Quarter 2014 SMRs and as a result, CIWQS violation IDs #992336 and 992337 have been dismissed. However, CIWQS violation ID #992335 for 4949 Kapa Court will remain as a deficient monitoring violation for failing to document total chlorine residual at Kapa Court. Per the Notice of Response dated 16 July 2015, the Discharger stated that their Distribution System Operator failed to document the total chlorine residual at the time of sample collection.

If you have any questions, please contact me at (916) 464-4623 or by email at kholmes@waterboards.ca.gov.



KARI HOLMES, P.E.
Senior Water Resource Control Engineer
NPDES Compliance and Enforcement Unit



Agenda Item: 22

Date: September 22, 2015

Subject: Upcoming Policy Review – Employee Performance Evaluation, Merit and COLA Policy (PL – HR 003)

Staff Contact: Lynne Yost, Human Resources Coordinator

The Employee Performance Evaluation, Merit and COLA Policy (PL – HR 003) was originally adopted by the Board in October 2003 and last revised in December 2013.

Staff has recommended non-substantive updates to this policy that include 1) changing the reference to pay/salary “bands for” all positions under Section 200.00, and 2) adding a reference to the evaluation procedure developed by the General Manager under Section 300.00. This policy was not submitted to legal counsel for review.

This policy is scheduled for Board consideration and adoption at the November Board meeting. If a Director wishes to have his comments included in hard copy for Board review and consideration, please provide those comments to staff by Monday, November 2, 2015.

Sacramento Suburban Water District

Employee Performance Evaluation, Merit and COLA Policy

Adopted: October 20, 2003

Revised: ~~November 21, 2005~~; October 15, 2007; October 17, 2011; December 16, 2013;
November XX, 2015**100.00 Purpose of the Policy**

The purpose of this policy is to establish a process to evaluate and assess employee job performance, assist employees in improving performance, provide the basis for merit increases and cost-of-living adjustments (COLA), and provide historical documentation of employee performance.

200.00 Policy

It is the District's policy to provide a program for advancement of its employees within the pay/salary ~~bands~~ range ~~of~~ for their positions using a merit-based system based on performance and goal achievement through an evaluation process. Performance evaluations are intended to help the employee better understand his/her job responsibilities; improve job performance in relation to the District's mission statement, values, goals and principles; measure and enhance individual performance; recognize and reward employee contributions; and foster professional development and career growth. The process is also intended to increase productivity, correct issues before they become serious problems for the individual or the District, and meet internal and external needs for documentation of individual performance. Performance evaluations are an essential part of an individual's employment experience with the District and serve as the basis for several employment-related actions including, but not limited to, completion of introductory periods, determination of merit increases and COLA, promotions and transfers. In addition, they serve as tools for placing employees on notice of performance deficiencies that, if uncorrected, may lead to corrective actions up to and including termination. The total merit increase pool must be approved by the Board of Directors within the annual labor budget. Individual merit increases are determined by the General Manager and are based on satisfactory performance reviews. Introductory employees are eligible to receive an annual COLA, if any, in the absence of any documented performance issues.

300.00 Authority and Responsibility

The General Manager is authorized and responsible for administering this policy and has established an evaluation process for evaluating and assessing job performance and compensation guidelines as set forth in the Employee Performance Evaluation, Merit and COLA Procedure (PR-HR 001) and supervisory training program that will be administered by the General Manager or his/her designee.

400.00 Policy Review

This policy will be reviewed at least biennially.

**REGIONAL WATER AUTHORITY
EXECUTIVE COMMITTEE AGENDA**

**September 23, 2015; 8:30 a.m.
5620 Birdcage Street, Suite 110
Citrus Heights, CA 95610
(916) 967-7692**

AGENDA

The public shall have the opportunity to directly address the Board on any item of interest before or during the Board's consideration of that item. Public comment on items within the jurisdiction of the Board is welcomed, subject to reasonable time limitations for each speaker. Public documents relating to any open session item listed on this agenda that are distributed to all or a majority of the members of the Board of Directors less than 72 hours before the meeting are available for public inspection in the customer service area of the Authority's Administrative Office at the address listed above. In compliance with the Americans with Disabilities Act, if you have a disability and need a disability-related modification or accommodation to participate in this meeting, please contact the Executive Director of the Authority at (916) 967-7692. Requests must be made as early as possible, and at least one full business day before the start of the meeting.

- 1. CALL TO ORDER AND ROLL CALL**
- 2. PUBLIC COMMENT:** Members of the public who wish to address the committee may do so at this time. Please keep your comments to less than three minutes.
- 3. CONSENT CALENDAR**
Minutes of the August 26, 2015 Executive Committee meeting.
Action: Approve Consent Calendar item.
- 4. RWA STRATEGIC PLAN IMPLEMENTATION COMMITTEE**
Discussion: Debra Sedwick, RWA Chair.
- 5. WATER SUPPLY RELIABILITY AND DROUGHT RESILIENCY PLANNING**
Discussion: Rob Swartz, Manager of Technical Services.
- 6. EXECUTIVE DIRECTOR'S REPORT**
- 7. DIRECTORS' COMMENTS**

ADJOURNMENT

Upcoming meetings:

Upcoming Executive Committee Meetings – Wednesday, October 28, 2015 and December 9, 2015; 8:30 a.m. at the RWA office.

Next RWA Board of Directors' Meeting – Thursday, November 12, 2015, 9:00 a.m.; RWA conference room, 5620 Birdcage Street, Ste. 110, Citrus Heights, CA 95610

SACRAMENTO GROUNDWATER AUTHORITY REGULAR MEETING OF THE BOARD OF DIRECTORS

Thursday, October 8, 2015; 9:00 a.m.

5620 Birdcage Street, Suite 110

Citrus Heights, CA 95610

(916) 967-7692

AGENDA

The Board will discuss all items on this agenda, and may take action on any of those items, including information items and continued items. The Board may also discuss other items that do not appear on this agenda, but will not act on those items unless action is urgent, and a resolution is passed by a two-thirds (2/3) vote declaring that the need for action arose after posting of this agenda.

The public shall have the opportunity to directly address the Board on any item of interest before or during the Board's consideration of that item. Public comment on items within the jurisdiction of the Board is welcomed, subject to reasonable time limitations for each speaker. Public documents relating to any open session item listed on this agenda that are distributed to all or a majority of the members of the Board of Directors less than 72 hours before the meeting are available for public inspection in the customer service area of the Authority's Administrative Office at the address listed above. In compliance with the Americans with Disabilities Act, if you have a disability and need a disability-related modification or accommodation to participate in this meeting, please contact the Executive Director of the Authority at (916) 967-7692. Requests must be made as early as possible, and at least one full business day before the start of the meeting.

1. CALL TO ORDER AND ROLL CALL

2. PUBLIC COMMENT: Members of the public who wish to address the Board may do so at this time. Please keep your comments to less than three minutes.

3. CONSENT CALENDAR

Minutes of August 13, 2015 meeting.

Action: Approve Consent Calendar item.

4. HEARING TO CONSIDER SACRAMENTO GROUNDWATER AUTHORITY ELECTING TO BECOME THE GROUNDWATER SUSTAINABILITY AGENCY FOR THE GROUNDWATER BASIN UNDERLYING SACRAMENTO COUNTY NORTH OF THE AMERICAN RIVER

Action: Adopt Resolution 2015-02.

5. SGA GROUNDWATER MANAGEMENT PROGRAM UPDATE

Information Presentation: Rob Swartz, Manager of Technical Services.

6. APPOINTMENT OF NOMINATIONS COMMITTEE FOR 2016 SGA OFFICERS

Action: Chair to Appoint Nominations Committee for 2016 SGA Officers.

7. EXECUTIVE DIRECTOR'S REPORT

- a. Government Affairs Update
- b. Drought Update
- c. Financial Reports

8. CLOSED SESSION UNDER GOVERNMENT CODE SECTIONS 54954.5(C) AND 54956.9(D) – UPDATE ON CALPERS AUDIT OF RWA AND CALPERS CONTINUED OBLIGATION TO PROVIDE PENSION BENEFITS TO RWA EMPLOYEES.

9. DIRECTORS' COMMENTS

ADJOURNMENT

Next SGA Board of Director's Meeting – December 10, 2015, 9:00 a.m., RWA/SGA office, 5620 Birdcage Street, Ste. 110, Citrus Heights.

WATER FORUM SUCCESSOR EFFORT

Thursday, October 8, 2015

5:30 PM – 8:30 PM

Clunie Community Center

**** ALHAMBRA ROOM ****

601 Alhambra Blvd.

Sacramento, CA 95816



**NOTE
LOCATION**

Agenda

5:30 DINNER

5:45 INTRODUCTIONS

6:00 DISCLOSURES/ REPORT BACKS / ANNOUNCEMENTS

6:15 PRESENTATION Modified FMS
- Tom Gohring

6:45 ACTION ITEM Endorsement of the Modified FMS

7:15 PRESENTATION Unveiling – The New Water Forum website
- Lilly Allen

7:50 UPDATES Habitat Management – Lilly Allen
Water Conservation – Mark Roberson
Water Supply & River Conditions – Tom Gohring

8:30 ADJOURN

Clunie Community Center: located in McKinley Park in East Sacramento, just a few blocks from the Water Forum office. Entrance is near the corner of F Street on Alhambra Blvd. through the McKinley Library main lobby, up a flight of stairs or elevator. Just follow the Water Forum sign.

DIV 2

From: James Arenz
Sent: Thursday, September 03, 2015 4:23 PM
To: 'D '
Cc: Doug Cater; Annette O'Leary; David Armand
Subject: RE: fluoride in south area drinking water

Dear Mrs.,

I very much appreciate you taking time out of your busy day to send kind words about David. Positive feedback is all too often a rare commodity these days. David often goes above and beyond to provide our customers, both external and internal, with exceptional service. He is undoubtedly a wealth of information on environmental compliance issues and an asset to the District. You can rest assured that with the leadership of David, our Environmental Compliance Supervisor, and his direct supervisor Doug Cater, our Production Superintendent, the District's water supply is well protected.

Thank you again,

James Arenz
Operations Manager
Sacramento Suburban Water District

From: D [[mailto: @hotmail.com](mailto:@hotmail.com)]
Sent: Thursday, September 03, 2015 3:40 PM
To: David Armand
Cc: Doug Cater; Annette O'Leary; James Arenz
Subject: RE: fluoride in south area drinking water

Dear David,

I'm "replying all" to your email because if one of the people you copied is *your* supervisor, I want them to know how pleased and impressed I was by your responses to my questions. Thank you!

Dear David's supervisor,

I was delighted to learn from David how proactive SSWD has been in responding to the CDC's OFL reduction. David also went above-and-beyond that answer, exactly as he explained below. I learned a lot, including that with David as SSWD's Environmental Compliance Supervisor, our local water supply is in very good hands.

Thank you all,
Diane

From: darmand@sswd.org

To: @hotmail.com

CC: dcafer@sswd.org; aoleary@sswd.org; jarenz@sswd.org

Subject: FW: fluoride in south area drinking water

Date: Thu, 3 Sep 2015 21:04:27 +0000

Dear Mrs.,

Thank you for returning my call this morning in regard to your question concerning Sacramento Suburban Water District's (SSWD or District) fluoridation practices in our South Service Area (SSA). What follows is the brief summary that I mentioned I would send you in regard to our conversation. As I said when we spoke, the reason I called you before responding via email is that I anticipated my response would generate more questions. That ended up being the case and, as it turned out, we discussed the following:

- Optimum Fluoride Level (OFL)
- Fluoride Control Range (FCR)
- The relationship between the OFL and FCR
- How the OFL and FCR were previously established and how they are currently established
- How SSWD responded to the Centers for Disease Control and Prevention's (CDC) April 2015 reduction of the OFL to 0.7 mg/L
- How the State Water Resources Control Board Division of Drinking Water (DDW) responded to the CDC action
- SSWD's regulatory requirements and,
- Why SSWD only fluoridates the SSA

Within the context of the above, I told you that prior to the CDC's reduction of the OFL, SSWD's (five-year temperature dependent) OFL was 0.8 mg/L with a corresponding FCR of 0.7 mg/L to 1.3 mg/L. The OFL is the regulatory target and the FCR is the regulatory range that water produced by fluoridating systems must remain within.

Shortly after CDC's announcement, DDW advised water purveyors that they may immediately revise their OFL to 0.7 mg/L (with a corresponding FCR of 0.6 mg/L to 1.2 mg/L) or, wait for the revised OFL and FCR to be established in regulation. SSWD opted to be proactive and adopted the revised OFL and FCR the following month (May 2015) after DDW posted the guidance on their website.

Last year when SSWD's OFL was 0.8 mg/L and FCR was 0.7 mg/L to 1.3 mg/L, the District's system-wide average for the year in the SSA was 0.9 mg/L. This year, (since May 2015) when SSWD's OFL is 0.7 mg/L and FCR is 0.6 mg/L to 1.2 mg/L, the District's system-wide average through July 2015, is 0.8 mg/L.

I'm glad that I had the opportunity to explain the information above to your satisfaction when we spoke on the phone. Your questions were insightful and we covered a lot of ground!

Sincerely,

David Armand
Environmental Compliance Supervisor
Sacramento Suburban Water District

From: D Craig [[mailto: @hotmail.com](mailto:@hotmail.com)]
Sent: Friday, August 07, 2015 2:43 PM
To: feedback
Subject: fluoride in south area drinking water

Dear SSWD,

I am disappointed to learn that the 2014 level of fluoride in SSWD's south area's drinking water is 0.9 ppm, when the new recommended standard given research is below 0.7 ppm.

I would appreciate a response to tell me what you are doing about this.

Thank you,

Diane (south area SSWD customer)



Agenda Item: 26

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Guide on Implementation of SGMA Released

Submitted by Emily Allshouse on Mon, 10/05/2015 - 7:52am



The California Water Foundation has released a guide that is intended to provide support for effective implementation of the Sustainable Groundwater Management Act. The guide — “*Know Your Options: A Guide to Forming Groundwater Sustainability Agencies*” — is authored by Valerie Kincaid and Ryan Stager of O’Laughlin and Paris LLP.

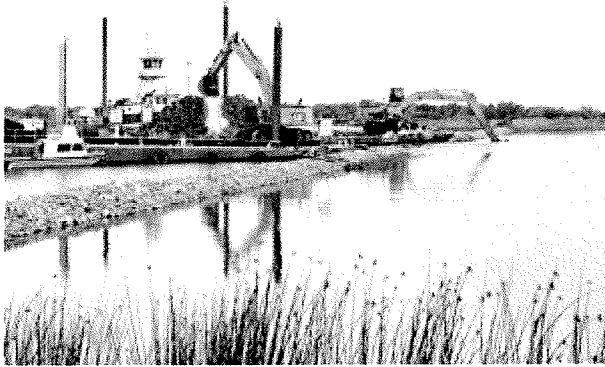
“Know Your Options” is intended to provide local agencies and interested stakeholders with a resource for forming groundwater sustainability agencies and coordinating the GSA’s under SGMA. The guide focuses on memorandums of agreement and joint powers agreements, two legal arrangements mentioned in SGMA that can be used by local agencies for GSA formation and groundwater sustainability plan development and implementation.

To provide examples, the guide examines relevant case studies of actual MOAs and JPAs to highlight how past agreements have navigated the discussed topics. The guide also provides templates for both an MOA for GSAs coordinating their respective GSPs, and a JPA for local agencies to use for creating a JPA to serve as a GSA. These template agreements may help agencies organizing management structures to better identify the challenges of governance and structure coordination to meet these challenges.

<http://www.acwa.com/news/groundwater/guide-implementation-sgma-released>

DWR Working to Remove Temporary Emergency Drought Barrier on West False River

Submitted by Emily Allshouse on Thu, 10/01/2015 - 3:50pm



The temporary emergency drought barrier constructed in the Sacramento-San Joaquin Delta this spring will be completely dismantled by mid-November, according to a Thursday report from the California Department of Water Resources.

DWR reported Thursday that cranes have already removed 22,000 tons rock on the downstream side of the barrier to allow water to begin flowing over what remains of the barrier over the next few days. Removal of the remaining rock – some 128,000 tons – will continue until the barrier is completely dismantled. The rock will be stored near Rio Vista for possible use in the future, should drought conditions require the barrier to be re-installed.

Extreme drought conditions made construction of the 750-foot rock barrier on the West False River in June necessary to combat the intrusion of saltwater and protect drinking water in the Delta as well as preserve water in upstream reservoirs to help keep young salmon cool enough to stay alive downstream of dams. It marked the first time since the drought of 1976-'77 that an emergency drought barrier was constructed in the Delta for this purpose.

“The water users in the interior of the Delta, including many farmers and residents there, would have experienced much higher salinity without it,” said DWR’s Bay-Delta Office Chief Paul Marshall. “The barrier has achieved what we intended, and having it go in by early June helped us to counter high tides experience later that month.”

[here.http://www.acwa.com/news/delta/dwr-working-remove-temporary-emergency-drought-barrier-west-false-river](http://www.acwa.com/news/delta/dwr-working-remove-temporary-emergency-drought-barrier-west-false-river)

Sacramento Unveils “Living Billboard” to Promote River-Friendly Landscaping Rebate Program

Submitted by Emily Allshouse on Wed, 09/30/2015 - 2:41pm



Dozens of area residents and local and state representatives, crowded Sacramento City Hall Wednesday afternoon as Sacramento officials unveiled a new low-water vertical garden – or “living billboard” – being used to promote the city’s River-Friendly Landscaping Rebate program.

Sacramento Utilities Director Bill Busath discussed the living billboard, which is made up of more than 30 native plants and flowers. He also encouraged Sacramentans to use the billboard as inspiration when replacing thirsty lawns with low-water plants and flowers this fall and promoted the city's rebate program.

The River-Friendly Landscaping Rebate program offers rebates of up to \$1,600 for single-family customers and \$6,000 for multi-family or business customers to help Sacramento residents replace turf or install water efficient irrigation systems and rain barrels.

With rain showers visible through the windows behind her, ACWA Board Member and Sacramento Mayor Pro Tem Angelique Ashby officially introduced the living billboard and discussed the city’s conservation efforts, but not before joking about the weather.

“...There are three ways to make it rain, right? One, wash your car, Two, plan an outdoor event like a wedding, or three, host a press conference on drought...I’m very proud to say that the City of Sacramento made it rain today...,” she said before delivering her remarks.

“I’m extremely proud of Sacramento,” added Ashby, on a more serious note, after she officially introduced the 8 foot by 4 foot living billboard. “This is an exceptional representation of what this city of capable of and I’m very proud of us.” Ashby praised the conservation efforts of

Sacramento residents, especially in her district, and noted that the City of Sacramento also has made significant progress in reducing its outdoor watering in medians and parks.

Sacramento residents have averaged a 34% reduction in water use from June through August this year. In addition, the city itself has reduced water use by 44% at parks, medians and city buildings during that same time period.

“We’re asking residents to take just one more step to conserve,” Ashby said. “And, this living billboard displays some of the beautiful flowers and plants that thrive in the Sacramento region on limited water that can be used in place of thirsty grass.”

<http://www.acwa.com/news/conservation/sacramento-unveils-%E2%80%9Cliving-billboard%E2%80%9D-promote-river-friendly-landscaping-rebate-pr>

Water Year 2015: Record-Low Snowpack and Record-High Temperatures

Submitted by Pamela Martineau on Tue, 09/29/2015 - 2:44pm

Water Year 2015 will go down in history as having the least amount of snowpack and highest temperatures in the Sierras on record, according to data released today by the California Department of Water Resources. Statistics released by DWR paint a picture of a state mired in a fourth year of drought, with scant precipitation and higher than normal temperatures. Water years run from Oct. 1 through Sept. 30.

Highlights of the WY 2015 data include:

- The statewide snowpack on April 1 held only 5% of the average water content for that date in records dating to 1950. The previous low record of 25% of average was set in 1977 during one of California's most significant droughts was tied in 2014.
- Of the nine April 1 snowpack values below 50% of average since 1950, three have occurred in the past three years of drought.
- According to the California Climate Tracker, the winter average minimum temperature for the Sierra Nevada region was 32.1 degrees Fahrenheit, the first time the reading was above water's freezing point in 120 years of record-keeping.
- At the end of the water year, the state's 154 reservoirs held only 54% of their historic average
- The U.S. Bureau of Reclamation's Central Valley Project clocked record low deliveries of zero project water to its north-of-Delta and south-of-Delta agricultural contractors and to agricultural contractors in its Friant Division.
- The SWP provided only 20% of its urban and agricultural contractors' requested amounts.

The press release from DWR also detailed the water conservation efforts undertaken following Gov. Jerry Brown's April 1 executive order mandating a statewide 25% reduction in urban water use. In the months following that order, the State Water Resources Control Board adopted mandatory urban water use restrictions, assigning reduction tiers to water districts based on past usage. By late summer, statewide urban water consumption was about 30% lower than during the same months in 2013.

DWR also highlighted California's statewide conservation program – Save Our Water – which is run in partnership by ACWA and DWR. The program ramped up its conservation messaging, as did water agencies and cities throughout the state. Many of these programs encouraged residents to conserve by offering turf and appliance rebates. In August, DWR launched its own rebate program offering up to \$2,000 for turf replacement and \$100 for households that replace an inefficient toilet.

The release also stated that reports of an El Niño weather pattern this winter are bringing hopes that the impacts of the drought could be lessened. According to the National Oceanic and Atmospheric Administration's Climate Prediction Center, there is about a 95% chance of a strong El Niño during the coming winter. It is unclear, however, how such a weather pattern would impact drought conditions and low reservoirs, particularly in northern California.

<http://www.acwa.com/news/water-supply-challenges/water-year-2015-record-low-snowpack-and-record-high-temperatures>

State Water Board and DWR to Hold Technical Sessions and Public Forums on SGMA Implementation

Submitted by Emily Allshouse on Tue, 09/22/2015 - 9:14am



The State Water Resources Control Board and the California Department of Water Resources have announced they will host a series of technical sessions for public agencies and public forums throughout the state in October and November to discuss Sustainable Groundwater Management Act implementation.

The meetings will be held Oct. 21 in the Los Angeles area, Oct. 22 in Visalia (Spanish translator available), Oct. 27 in Sacramento (also available via [webcast](#)), and Nov. 5 meeting in Redding.

All October meeting dates will include technical sessions from 1 - 4 p.m. followed by public forums from 6 - 8 p.m., while the November meeting in Redding will be a combined technical session and public forum held from 1 - 4 p.m.

Technical sessions will focus the following topics:

- Local agency requirements regarding Groundwater Sustainability Agency (GSA) formation, groundwater sustainability, and public involvement;
- Discussing the status of SGMA implementation within the region;
- Identifying technical and financial assistance available from the state, including Proposition 1 and other funding sources; and
- Understanding the implications of state intervention in the absence of local action.

<http://www.acwa.com/news/groundwater/state-water-board-and-dwr-hold-technical-sessions-and-public-forums-sgma-implemента>

Two major water agencies consider buying Delta islands

By Dale Kasler and Ryan Sabalow

Two of California's largest and most aggressive water agencies have discussed buying four islands in the Sacramento-San Joaquin Delta, prompting accusations by environmentalists and Delta farmers that the land purchases could be used to engineer a south state water grab.

Westlands Water District and Metropolitan Water District of Southern California have considered buying a collection of islands known as the Delta Wetlands Properties, according to recent meeting agendas for the two agencies. However, a Westlands spokesman said Monday the big Fresno-area agricultural district doesn't expect to make a purchase offer.

Control of the islands could yield significant advantages as water agencies both south and north of the Delta continue to wrestle over limited water supplies in the fourth year of drought. Buying the islands would not automatically give the new owners control of the associated water rights. But they could apply to the state for the right to take more water in wet years.

In normal years, enough water is pumped out of the Delta to serve 3 million acres of farmland and 25 million urban Southern Californians.

The four Delta islands, now used for farming, are controlled by Zurich American Corp., the U.S. subsidiary of a Swiss insurer. Zurich has been trying for 20 years to convert the islands into giant for-profit reservoirs that could be used to store and ship water to big customers south of the Delta.

Purchase of the islands also could play into ongoing negotiations over the Delta tunnels project, a controversial \$16 billion plan to channel water from the north part of the Delta to existing pumping stations in the south. By purchasing the islands, Metropolitan and Westlands would eliminate the need for contentious eminent domain proceedings in that part of the project, said Craig Wilson, a former staff attorney with the State Water Resources Control Board.

The project, championed by Gov. Jerry Brown, has been touted as a way to improve the reliability of water deliveries to Metropolitan, Westlands and other agencies south of the Delta. The four islands are adjacent to the path of the proposed tunnels.

Michael George, the state's Delta watermaster, said one of the islands could be used to stockpile fill dirt unearthed by the twin 30-mile-long tunnels, at least temporarily. George said he wasn't aware of possible interest in the islands by Metropolitan and Westlands.

Wilson said Metropolitan and Westlands also could be interested in the islands simply for their access to generous amounts of water. The four islands come with riparian water rights that can

be used only on the adjacent lands. But the two agencies could seek state approval to store that water during wet years, for later shipment south.

“It’s a potential two-for-one for them,” said Wilson, who previously served as the Delta watermaster, overseeing the enforcement of water rights in the 600,000-acre region. The four islands total 20,000 acres of land.

Metropolitan spokesman Bob Muir declined comment Monday. The agency’s real property committee discussed the issue in closed session Tuesday, according to agenda materials. Muir said later in the day that no action was taken.

Westlands hasn’t made any offer to acquire the properties “and I do not anticipate that the district will make such an offer,” said Johnny Amaral, the district’s deputy general manager of external affairs, in an email to The Sacramento Bee. Agenda materials show that Westlands’ water policy committee discussed the matter in closed session last week.

Barbara Barrigan-Parrilla, executive director of Restore the Delta, a coalition of environmentalists and Delta farmers, said it’s not surprising that Metropolitan, with its deeper pockets, would be more interested than Westlands in trying to acquire the islands. “This is a way for the Metropolitan Water District to get a foothold in the Delta for greater water supply,” she said. Owning the islands, with its access to water, could be a great strategic advantage for Metropolitan whether the tunnels get built or not, she said. Rick Stephens, asset manager for Martinez-based Delta Wetlands Properties, said he couldn’t comment on the agenda items. He said the company is forging ahead with its plans for a storage project, but the land could be for sale once the permitting for that is done.

“We’re working on our project,” Stephens said. Asked about Metropolitan’s interest, he said, “I don’t know what’s going on with them. You saw what I saw. You saw Met’s agenda. I don’t have any input on their agenda.” As currently conceived, the Delta Wetlands project revolves around two islands: Webb Tract and Bacon Island, located just seven miles from the pumping plants near Tracy that ship water to the San Joaquin Valley and Southern California. The two bowl-shaped islands, which sit below sea level, would be flooded during wet years and could store up to 215,000 acre-feet of water. That’s 70 billion gallons.

“In dry years, it can be delivered where it is needed,” reads a description of the project on Delta Wetlands’ website. An influential Kern County water agency, the Semitropic Water Storage District, has worked with Delta Wetlands as a partner in the project. Two other nearby islands, Bouldin Island and Holland Tract, would continue to be farmed but would also be used for habitat management to offset the impact of flooding Webb and Bacon, according to environmental documents on Delta Wetlands’ website.

<http://bit.ly/1V7YP0v>

California Groundwater Law Tests State's Capacity to Oversee A Vital Resource

A year after passage, California begins building a new regulatory infrastructure



Photo © Brett Walton / Circle of Blue

Sprinklers irrigate a field of cauliflower outside Watsonville, in California's Pajaro Valley. This region relies almost exclusively on groundwater to produce some of the most valuable fruit and vegetable harvests in the United States. *Click image to enlarge.*

By Brett Walton
Circle of Blue

SOQUEL, California — On September 16, 2014, Governor Jerry Brown, cheerfully triumphant, signed into law the Sustainable Groundwater Management Act, which many observers assert is the most significant addition to California's water protection code in a century.

Brown's jubilation appeared justified in a dry, fast-growing, 165-year-old state that relies on prodigious volumes of freshwater from aquifers for its water supply, doesn't really know how much water lies underground, and where leaders that sought changes to oversee the resource were subject to intense opposition.

Brown, himself, was one of the victims. During a drought in 1977, in his first term as governor, Brown appointed a commission to review the state's water laws. The recommended protections for groundwater were not implemented. Lawmakers and the powerful agricultural sector did not feel the urgency to act.

"When the groundwater act was created, the watch phrase was 'local control'...Now people are scratching their heads. They have to figure out how to form [an agency] and fund one."

—Andrew Fisher, professor
University of California, Santa Cruz

The recent groundwater act is an attempt to change the course. The state's drought emergency and record-low aquifer levels provided Brown with the political cushion necessary to push

through the first statewide safeguards for aquifers, making California the last western state to adopt a regulatory system for groundwater.

But while Brown and other state leaders view the new law as a breakthrough in policy, it is not at all assured that building a new regulatory infrastructure to sustain California's groundwater reserves will be a triumph of practice. The law's requirements to establish local water oversight boards are complex and detailed. Moreover, the ultimate deadline for meeting the law's major goal of much more cautiously consuming groundwater doesn't need to be met until 2040, when California's population is projected to reach 50 million residents, 11 million more than today. In almost every way, putting the groundwater law into effect is a 21st century test of a state's capacity to respond to new and urgent ecological and economic conditions.

A year after the act's passage, Californians have put aside lingering skepticism and are busy putting the text into action. Water managers, county supervisors, city and state officials, irrigation districts, and a bevy of other interested parties are scurrying to meet a cascade of deadlines that were laid out in the statute: deadlines for confirming the boundaries of their groundwater basins, for forming new agencies that will be tasked with overseeing water withdrawals from local aquifers, and for writing the management plans that will guide groundwater use for the next 25 years in the state's major cities and farming centers.

To watch the process unfold is to witness the foundations of democracy. The same questions that Hamilton, Jefferson, and Madison argued about and debated more than two centuries ago are now echoing in city council chambers and public forums from Clovis to Salinas. Who gets a seat at the table? Who gets to vote? How much is their vote worth? How will fees be collected? Who must pay for projects that reduce groundwater use or increase supply? How much will they pay?

With the law, California is, in effect, creating micro-states for groundwater, instituting new political divisions that are set, loosely, on basin boundaries, much as John Wesley Powell advocated, in 1890, for watersheds, as a way to govern the entire American West.

Crafting the fresh institutions that will oversee groundwater is contentious, tedious work, filled with late night meetings, mediators, technical details about geology and hydrology, and discussions about the nature of governance. The act — a two-step process that was designed to pull California groundwater regulation out of the hydrologic Dark Ages — forces agencies that may never have collaborated to agree to a long-term vision for water supply and availability.

First, the 127 groundwater basins that are covered by the law must form a Groundwater Sustainability Agency (GSA) that will have the power to measure and monitor groundwater use, levy fees on users, set standards for new wells, and enforce compliance with the law. The deadline to form an agency is June 30, 2017.

Second, the GSAs, once formed, must write sustainability plans that will balance water withdrawals with inflows by 2040. The plans are due in 2020 or 2022, depending on the severity of groundwater depletion in a basin. The state will evaluate the plans to ensure that they meet minimum criteria, but the local agencies, as they lobbied for, are in the captain's seat.

“When the groundwater act was created, the watch phrase was ‘local control’,” Andrew Fisher, a University of California, Santa Cruz, scientist who studies groundwater, told Circle of Blue. “The legislation was vague on the details. It said nothing about what a groundwater agency looks like. Now people are scratching their heads. They have to figure out how to form one and how to fund one. It's not quite clear how to do that. It's going to be an interesting 20 years.”

Agency Formation Depends on Local Relationships

Forming a GSA is straightforward in some areas. The legislation authorizes 15 existing water agencies to become the GSA in their jurisdiction. They are all special districts that were previously established by the Legislature to manage groundwater.

“We've been given a pass card,” Mary Bannister, general manager of Pajaro Valley Water Management Agency, told Circle of Blue. By that, Bannister means that Pajaro Valley, one of the districts named in the act, is ahead of the game. Its boundaries, function, and purpose have already been legally defined and they were confirmed during an August board meeting. The agency can move to step two: writing a sustainability plan.

The rest of the state is still on step one: forming a GSA. In most cases, the agencies that will regulate groundwater use are being created from scratch, stitched together from the fabric of existing institutions.



Photo © Brett Walton / Circle of Blue

Members of the Soquel-Aptos Groundwater Management Committee applaud the election of new representatives at an August 20, 2015 meeting. The committee is tasked with meeting the requirements of California's Sustainable Groundwater Management Act. *Click image to enlarge.*

A few paces in front of the pack is the Soquel-Aptos Groundwater Basin, a small basin in Santa Cruz County, on the coast. Soquel Creek Water District, one of a number of water providers in

the basin, declared a groundwater emergency in June 2014. Groundwater is the district's only water source, more water is pumped from the aquifer each year than is recharged by rainfall, and the Pacific Ocean is slowly creeping inland, which is a threat to coastal wells. The basin is one of 21 "critical" basins in the state, as designated by the Department of Water Resources.

At an August 20 meeting, a basin coordination committee that was formed in 1995 added new members, in order to implement the groundwater act. Santa Cruz County, the city of Santa Cruz, and three members representing private well owners joined Soquel Creek and Central Water District. The 11-member committee will most likely become the GSA for the basin.

What Is a Groundwater Basin?

The boundaries of California's 515 groundwater basins were established in Bulletin 118, a Department of Water Resources technical document that was published in 1980 and updated in 2003. The 127 basins that are the most densely populated or rely on groundwater for most of their water supply are regulated under the Sustainable Groundwater Management Act.

There are problems with the boundaries. They are primarily based on rivers or political lines, such as counties, rather than the dimensions of the aquifers.

The state is allowing basins to apply to have their boundaries redrawn. The justification can be scientific, such as to better match the actual hydrology, or jurisdictional, to align fragmented political divisions, such as a piece of one county or district located in another basin.

"We're not sure how many revisions there will be," Bill Brewster of the California Department of Water Resources told Circle of Blue. "There is a lot of interest but we're trying to gauge how many appeals will actually be submitted."

Under the state's proposed framework for revisions, certain changes will be easier to make.

Moving a parcel of land between two existing, contiguous basins will be less difficult than redrawing the external boundaries of a basin, to add or remove land from regulation.

The Department of Water Resources will finalize the process for modifying basin boundaries by January 1, 2016. Local agencies will have 90 days to submit changes, which will be approved by August 2016.

"If I were a betting man, I'd wager that we'll see fewer basins in the end," Brewster said.

"The spirit of cooperation among the entities is really good," Tom LaHue, a Soquel Creek board member, said at the three-hour meeting, which ended a few minutes before 10 p.m.

A number of questions are unresolved. Soquel-Aptos might appeal to the state to revise its basin boundaries (see sidebar). The committee must decide whether to pursue water supply projects jointly or as individual agencies. The biggest point of contention at the meeting was the speed of the GSA formation.

“It’s three steps forward, two steps back on GSA issues,” Melanie Mow Schumacher, special projects manager for Soquel Creek Water District, told Circle of Blue. “The discussions about assessing fees — those are the steps back. Recognizing the fact that we need to be doing something about groundwater, that is running forward.”

Observers in other basins also see money as the most significant hurdle for the GSAs.

“The biggest vulnerability for SGMA is how to get funded,” Bannister said.

Bannister speaks from experience. After Pajaro Valley was established by the Legislature in 1985, she said it took 15 years for the fledgling agency to begin developing projects that addressed the basin’s declining groundwater levels.

“It took the metering of wells, five years of hydrologic modeling, and \$US 5 million to \$US 10 million in expenses to get us to the point where we could identify solutions. The question for the new agencies is how do you pay for it?”

The state will provide some assistance. Local agencies can apply for \$US 100 million in planning grants, part of the \$US 7.5 billion water bond that voters passed last November.

Go Quicker

The most frequent criticism of the SGMA process is that it is too slow. Sustainability plans are due by January 31, 2020, for the critical basins and January 31, 2022, for the other 106 basins covered by the law. Though the state will evaluate progress toward the plan goals every five years, basins do not have to be in balance until 2040.

“I worry that by the time we get our act together and implement the plans we’re going to be facing a more immediate crisis of groundwater supply,” Kevin Haroff, an attorney at the San Francisco office of Marten Law, told Circle of Blue.

Even Governor Brown says that legislation is going too slow, claiming in an August 23 interview on NBC’s Meet the Press that “we’re not aggressive enough” but that the state “will be stepping it up year by year.”

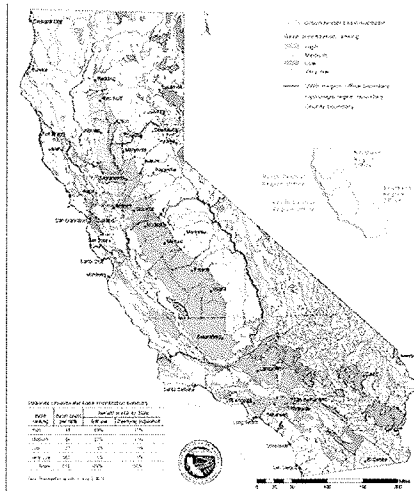


Image courtesy of California Department of Water Resources

Of California’s 515 groundwater basins, 127 are designated as high (orange) or medium (yellow) priority. These basins are required to form groundwater management agencies by 2017 and submit sustainability plans to the state by 2020 or 2022, depending on the severity of the basin’s groundwater decline. *Click image to enlarge.*

The critics worry because the state leaned so strongly on groundwater to survive the four years of drought that the crutch might snap if dry times continue much longer. Residential wells in the Central Valley are going dry at an unprecedented rate. The land, with the water removed, is sinking in certain areas at record pace. Saltwater, held in abeyance along the coast thanks to a multitude of recycling projects, is likely to creep inland as more groundwater is pumped.

But those implementing the act’s provisions — the irrigation districts, county officials, water managers, and well owners — have a different view. They say the timeline feels fast, or “incredibly aggressive,” as Bannister said.

When asked about the speed of implementation, Rob Johnson, deputy general manager of the Monterey County Water Resources Agency, paused before answering.

“It’s a very interesting question,” he told Circle of Blue. “For the people to put an agency in place and write plans and change their practices, it will take that amount of time.”

Monterey County is part of the Salinas River Basin, which is another of the critical basins that must submit a plan by 2020. Unlike Soquel-Aptos, however, there is little agreement about the form a GSA should take.

Initially, the Monterey County Water Resources Agency said that it alone would be the GSA. Farmers and the city of Salinas objected to that concentration of authority.

“We said, ‘No, that’s not going to work for us,’” Gary Peterson, director of public works for Salinas, told Circle of Blue. “That would be abdicating land use to the county. We needed more equitable management.”

Farm interests, on the other hand, feel that they should have the controlling stake in the GSA, since agriculture uses between 85 and 90 percent of the basin’s groundwater.

“We feel that voice is commiserate with our use of groundwater,” Norm Groot, executive director of the Monterey County Farm Bureau, told Circle of Blue.

To help guide the basin to a resolution, a coalition of competing interests — the Monterey County Water Resources Authority, Monterey County, the city of Salinas, the Monterey County Farm Bureau, the Grower-Shipper Association, and the Salinas Valley Water Coalition — elected to bring in a facilitator.

Plans Will Wait.

The GSAs are only a beginning, an intermediate step toward sustainable groundwater use. The harder questions come after the GSA is established, when the rules of the game will be written. Will basins focus on reducing demand or increasing supply? Who will pay for those projects? How will landowners in parts of a basin that are not experiencing detrimental declines in groundwater feel about paying for projects that benefit people living in areas that do have problems?

Groot, for instance, said that the farm interests in Monterey County do not want a reduction in groundwater pumping, that they prefer measures that increase supply, such as pulling out vegetation in the Salinas River channel.

Even those basins with widespread agreement about the shape and composition of a GSA face a steep path when they write their sustainability plans.

Schumacher, of Soquel Creek, said that the idea for the Soquel-Aptos basin is to stage the discussion in two parts. First, move forward with the GSA, which everyone agrees is a necessary step. Filing for the GSA sooner will allow for a head start on the details of the sustainability plan, which is due in five years.

As for consensus on what goes into the plan, “we’re just not there yet,” Schumacher said.

<http://bit.ly/1ii6Z4y>

Sierra Nevada snowpack is much worse than thought: a 500-year low



Gov. Jerry Brown announces mandatory drought restrictions while standing in a snowless Sierra Nevada meadow on April 1.

When California Gov. Jerry Brown stood in a snowless Sierra Nevada meadow on April 1 and ordered unprecedented drought restrictions, it was the first time in 75 years that the area had lacked any sign of spring snow.

Now researchers say this year's record-low snowpack may be far more historic — and ominous — than previously realized.

In a paper published Monday in the journal *Nature Climate Change*, scientists estimate that the amount of snow in the Sierra Nevada was the lowest in more than 500 years.

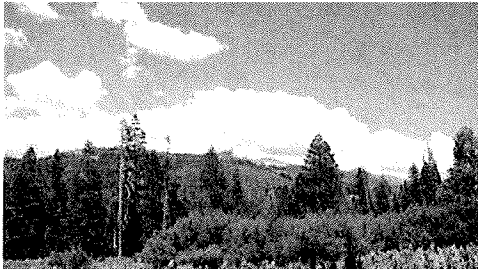
“We were expecting that 2015 would be extreme, but not like this,” said senior study author Valerie Trouet, a paleoclimatologist at the University of Arizona.

The report is the latest in a series of studies that have sought to characterize the depth of California's four-year drought and place it in a broader historic context. It joins a growing body of research warning that global warming will reduce the amount of snow blanketing California mountains — a development that will reduce the state's available water, even as its population continues to grow.

“This is probably the biggest water supply concern our state is facing,” said Mark Gold, associate vice chancellor for environment and sustainability at UCLA who was not involved in the new study. “On a scale of 1 to 10, it's 11.”

The issue, according to UC Davis hydrology expert Helen Dahlke, is that with climate change, there will be much less snow and more rain.

“That water will just be going into the ocean unless we can figure out a way to capture some of that water quickly,” said Dahlke, who was not part of Trouet’s study team.



Forest ecologists finally got their wish: an entire private landscape on which to test methods of tree thinning and controlled burns to reduce risk of mega fires and minimize the effects of drought on California’s frozen reservoirs -- mountain snowpacks.

Snowpack is a key factor in California’s water supply: In a normal year, melting Sierra Nevada snow provides the state with one-third of its water. Another third is pumped from underground aquifers, and the rest comes from rivers and reservoirs.

Because of its importance as a water source, officials began monitoring the snowpack in the 1930s and have established 108 measuring stations throughout the Sierra Nevada.

This spring, researchers found that the amount of water contained in the snow on April 1 was only 5% of the average snow water equivalent since monitoring began. In the case of the Phillips measuring station — where Brown ordered mandatory water use reductions for the state — the snowpack usually reached a height of 5 1/2 feet at that time of year.

To reconstruct long-ago snow conditions, Trouet and her colleagues analyzed data from the reporting stations as well as two tree-ring studies. The first study used measurements from 1,500 living and dead blue oak trees to estimate rainfall back to the year 1400. The second included tree-ring data from a different group of trees to model temperatures for the same period.

“What we know about snow and how it varies from year to year is that there are two important climatic factors that play a role.” Trouet said. “One of them is the amount of precipitation that falls and the other is the temperature at the time that precipitation falls. With higher temperatures your precipitation is going to fall as rain.”

When researchers put all the data into a chronology, they saw just how exceptional the 2015 snowfall was: The chance that a “snow drought” of this magnitude would affect the entire Sierra Nevada more than once every 500 years was less than 5%, they concluded.

For lower mountain elevations, where temperatures are warmer, the return period was estimated to be 1,000 years. At higher elevations, where temperatures are much more likely to reach freezing and cause any precipitation to fall as snow, the return period was just 95 years.

The researchers noted that though California’s total precipitation in 2015 fell within the bounds of natural variability, winter temperatures were among the highest ever recorded. That means less snow and more rain, which the state is ill-equipped to collect and store.

Although it’s been 500 years since the snowpack was this sparse, global warming threatens to make these conditions more frequent, according to the researchers. “With anthropogenic warming, those high temperatures are going to be rising,” Trouet said. “We can assume that the return interval is going to get shorter.”

Benjamin Cook, a climate scientist at NASA Goddard Institute for Space Studies, said the new study was “another piece of the puzzle in an increasingly converging picture of a really exceptional California drought.” Other scientists said the paper highlighted the precarious nature of snowpack as a key California resource. “We’ve been very lucky to have a natural system in place that’s worked very well for decades and decades,” Gold said. “But models show that snowpack is likely to be down because of increased temperatures, and it’s a concern. Is our system set up to manage this at all?”

Lucas Silva, a soil and biogeochemistry researcher at UC Davis who was not involved in the study, said he was glad the topic was getting attention in a major journal, even though he expressed doubt that tree-ring data could accurately pinpoint past drought conditions.

A single tree ring could be influenced by several years of environmental stress caused by any number of factors, he said. “I’m curious and interested, but skeptical that they can really tell that this is about water only,” Silva said. And although forecasters said it was increasingly likely that a powerful El Niño would result in a wet fall and winter, those storms may not contribute to a large snowpack. “Temperatures this winter may be warmer than usual,” wrote Daniel Swain, a Stanford University graduate student in environmental and earth system science who wasn’t involved in the study. “In that sense, the present paper is very relevant. Even with increased precipitation, snow at lower elevations may actually be below average.”

<http://lat.ms/1KinzhV>



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FOR IMMEDIATE RELEASE

PCWA AND SAN JUAN WATER DISTRICT COMPLETE BARTON ROAD INTERTIE PROJECT

AUBURN, Calif. (September 17, 2015) – The Placer County Water Agency (PCWA) and San Juan Water District announced today they have completed construction of the Barton Road Intertie. The project connects PCWA’s and San Juan’s treated water systems, increasing service reliability for both agencies.

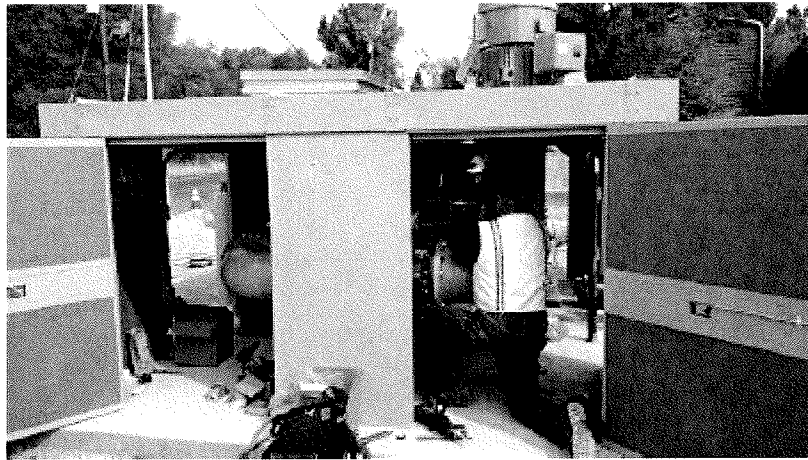
The intertie project consists of 2,700 feet of underground pipe within Barton Road, an emergency pump, and instrumentation and control systems. By connecting the two waters systems, San Juan and PCWA can provide water to one another at a daily capacity of 2 million gallons per day, enough to service over 2,000 households.

“We’re very excited about completion of the project,” San Juan Water District General Manager Shauna Lorance said. “With current drought conditions, the intertie provides a much needed mutual benefit.”

The total cost for the project is approximately \$1.5 million. Roughly half the cost was covered by Proposition 84 funds awarded to the Regional Water Authority (RWA) through its 2014 Integrated Regional Water Management Drought Grant application. PCWA and San Juan Water District equally split the remaining costs.

“PCWA is proud to partner with San Juan Water District on the Barton Road Intertie and is thankful to the District for leading the project on behalf of both of us,” PCWA General Manager Einar Maisch said. “We are also grateful to RWA for recognizing the importance of this project and providing a means to obtain a portion of the funding.”

The project ran a successful operational test on Friday, September 11.



PCWA water distribution operator Don Miller conducts testing alongside the construction crews.

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About PCWA

Placer County Water Agency (PCWA) is the primary water resource agency for Placer County, California, with a broad range of responsibilities including water resource planning and management, retail and wholesale supply of drinking water and irrigation water, and production of hydroelectric energy.

About San Juan Water District

San Juan Water District is a community services district providing reliable, high-quality water service to both retail and wholesale customers in eastern Sacramento and southern Placer counties.