

**REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE  
FLORIN RESOURCE CONSERVATION DISTRICT**

**Agenda**

**Wednesday, May 25, 2016**

**6:30 PM**

**9257 Elk Grove Blvd.  
Elk Grove, CA 95624**

Compliance with Government Code Section 54957.5

Public records, including writings related to an agenda item for an open session of a regular meeting of the Florin Resources Conservation District that are distributed less than 72 hours before the meeting, are available for public inspection during normal business hours at the Administration building of Elk Grove Water District, located at 9257 Elk Grove Blvd. Elk Grove, California. In addition, such writings may be posted, whenever possible, on the Elk Grove Water District website at [www.egwd.org](http://www.egwd.org).

The Board will discuss all items on the agenda, and may take action on any item listed as an "Action" item. The Board may discuss items that do not appear on the agenda, but will not act on those items unless there is a need to take immediate action and the Board determines by a two-thirds (2/3) vote that the need for action arose after posting of the agenda.

If necessary, the Meeting will be adjourned to Closed Session to discuss items on the agenda listed under "Closed Session." At the conclusion of the Closed Session, the meeting will reconvene to "Open Session."

**CALL TO ORDER, ROLL CALL AND PLEDGE OF ALLEGIANCE**

**Public Comment – Please complete a Request to Speak Form if you wish to address the Board.** Members of the audience may comment on matters that are not included on the agenda. Each person will be allowed three (3) minutes, or less if a large number of requests are received on a particular subject. No action may be taken on a matter raised under "Public Comment" until the matter has been specifically included on an agenda as an action item. Items listed on the agenda will be opened for public comment as they are considered by the Board of Directors.

**1. Proclamations and Announcements**

Associate Director Comment

Public Comment

**2. Consent Calendar** (Stefani Phillips, Board Secretary and Jim Malberg, Treasurer)

- a. Regular Meeting Minutes – April 27, 2016
- b. FRCD Cash Flow Worksheet – April, 2016
- c. Warrants Paid – April, 2016
- d. Active Accounts – April, 2016
- e. Bond Covenant Status for FY 2015-16 – April, 2016
- f. Revenues and Expenses – Actual vs. Budget FY 2015-16 – April, 2016
- g. Cash Accounts – April, 2016
- h. Consultants Expenses – April, 2016
- i. Major Capital Improvement Projects – April, 2016

Associate Director Comment

Public Comment

**Recommended Action: Approve FRCD Consent Calendar items a – i**

3. **Committee Meetings** (Stefani Phillips, Board Secretary)
  - a. Special Meeting of the Infrastructure Committee Minutes – April 21, 2016
  - b. Finance Committee Meeting Minutes – May 11, 2016

Associate Director Comment

Public Comment

**Recommended Action: Accept the minutes of the Special Meeting of the Infrastructure Committee held on April 21, 2016 and the Finance Committee meeting held on May 11, 2016**

4. **Amendment to Water Shortage Contingency Plan and Implementation of Normal Water Supply Stage** (Mark J. Madison, General Manager)

Associate Director Comment

Public Comment

**Recommended Action: Adopt Ordinance No. 05.25.16.01 amending the Water Shortage Contingency Plan's Normal Water Supply Stage and order implementation of the amended Normal Water Supply Stage**

5. **Florin Resource Conservation District Conservation Activities Report**  
(Mark J. Madison, General Manager)

Associate Director Comment

Public Comment

6. **Elk Grove Water District Operations Report – April 2016**  
(Mark J. Madison, General Manager)

Associate Director Comment

Public Comment

7. **General Manager's Report** (Mark J. Madison, General Manager)

Associate Director Comment

Public Comment

8. **Draft 2015 Urban Water Management Plan** (Bruce M. Kamilos, Assistant General Manager)

Associate Director Comment

Public Comment

9. **New Classification Request – Program Manager**  
(Stefani Phillips, Human Resource Administrator)

Associate Director Comment

Public Comment

**Recommended Action:** Adopt Resolution No. 05.25.16.01 approving the Florin Resource Conservation District/Elk Grove Water District Classification and Salary Study and authorizing associated changes to the Florin Resource Conservation District's Organization Chart and Elk Grove Water District Salary Schedule

**10. Florin Resource Conservation District/Elk Grove Water District General Liability, Property, and Workers Compensation Insurance** (Jim Malberg, Finance Manager)

Associate Director Comment

Public Comment

**Recommended Action:** Adopt Resolution No. 05.25.16.02, of the Board of Directors of the Florin Resource Conservation District authorizing application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities; Resolution No. 05.25.16.03 of the Board of Directors of the Florin Resource Conservation District consenting to enter the Joint Protection Programs of the Association of California Water Agencies/Joint Powers Insurance Authority; and Resolution No. 05.25.16.04 of the Board of Directors of the Florin Resource Conservation District authorizing volunteer personnel workers' compensation insurance

**11. Directors Comments**

Associate Director Comment

Public Comment

Adjourn to Regular Meeting – June 22, 2016.

May 25, 2016

TO: Chairman and Directors of the Florin Resource Conservation District  
FROM: Stefani Phillips, Board Secretary and Jim Malberg, Treasurer  
SUBJECT: **CONSENT CALENDAR**

---

**RECOMMENDATION**

It is recommended that the Florin Resource Conservation District Board of Directors approve FRCD Consent Calendar items a – i.

**Summary**

By this action, the Board will approve FRCD Consent Calendar items a – i.

**DISCUSSION**

**Background**

Consent Calendar items a-i are standing items on the Regular Board Meeting agenda.

**FINANCIAL SUMMARY**

N/A

Respectfully Submitted,



STEFANI PHILLIPS, BOARD SECRETARY AND  
JIM MALBERG, TREASURER

SP

Attachments

## MINUTES OF THE REGULAR MEETING OF THE FLORIN RESOURCE CONSERVATION DISTRICT BOARD OF DIRECTORS

Wednesday, April 27, 2016

The regular meeting of the Florin Resource Conservation District Board of Directors was called to order at 6:30 p.m. by Chuck Dawson, Chair, at 9257 Elk Grove Blvd, Elk Grove CA.

### Call to Order, Roll Call, and Pledge of Allegiance.

Directors Present: Chuck Dawson, Bob Gray, Elliot Mulberg, Tom Nelson, Jeanne Sabin  
Directors Absent: None  
Staff Present: Mark J. Madison, General Manager; Stefani Phillips, Secretary; Bruce Kamilos, Assistant General Manager; Jim Malberg, Finance Manager; Donella Murrillo, Finance Supervisor  
Associate Directors Present: Lisa Medina, Mike Schmitz  
General Counsel Present: Ann Siprelle, Best Best & Krieger (BB&K)  
Consultants Present: None

### Public Comment

Dottie Roderberg, Resident, explained to the Board that she put in new sod and would be watering each and every day to ensure her sod will not die. She said once the first three weeks are up, she will honor the watering days set forth by the Elk Grove Water District (EGWD).

Mark Madison, General Manager, explained that there is an item on the agenda to further discuss the conservation efforts.

Mr. Madison will get back to Ms. Roderberg after a decision has been made on watering days.

Chuck Dawson, Chairman, pulled agenda item no. 9 from the agenda.

### 1. Proclamations and Announcements

Mark Madison, General Manager, announced to the Board that the Elk Grove Western Festival will be held the upcoming weekend of April 30 – May 1, 2016 and the EGWD will have a booth at the event.

Elliot Mulberg, Director, asked for volunteers to be a judge at the BBQ contest at the Western Festival on Saturday, April 30, 2016 and commented that it would be a four hour commitment.

Mr. Madison talked about the Eco-Landscape Workshop that the District would be sponsoring on Saturday, April 30, 2015.

### 2. Consent Calendar

- a. Regular Meeting Minutes – March 23, 2016
- b. FRCD Cash Flow Worksheet – March, 2016
- c. Warrants Paid – March, 2016
- d. Active Accounts – March, 2016
- e. Bond Covenant Status for FY 2015-16 – March, 2016
- f. Revenues and Expenses – Actual vs. Budget FY 2015-16 – March, 2016
- g. Cash Accounts – March, 2016
- h. Consultants Expenses – March, 2016
- i. Major Capital Improvement Projects – Budget vs. Actuals – March, 2016

- j. Elk Grove Water District 2014 Employee Policy Manual Amendment – Post Retirement Benefits

MSC (Mulberg/Sabin) to approve Consent Calendar items a-j 5/0: Ayes: Dawson, Gray, Mulberg, Nelson, and Sabin.

### 3. Committee Meetings

There were three committee meetings held in the months of March and April:

- Special Meeting of the Conservation Committee Minutes – March 23, 2016
- Special Meeting of the Conservation Committee Minutes – April 6, 2016
- Special Meeting of the Infrastructure Committee Minutes – April 6, 2016

Elliot Mulberg, Director, spoke about the Conservation Committee meeting.

Tom Nelson, Vice-Chairman, spoke about the Infrastructure Committee meeting. A discussion occurred regarding potential long-term improvement plans for the Administration Building.

MSC (Sabin/Nelson) to accept Special Meeting Minutes of the Conservation Committee meetings held on March 23 and April 6, 2016 and the Infrastructure Committee meeting held on April 6, 2016 5/0: Ayes: Dawson, Gray, Mulberg, Nelson, and Sabin.

### 4. Elk Grove Water District Conservation Activities – March 2016

Mark Madison, General Manager, presented the Elk Grove Water District Conservation Activities – March 2016 to the Board. In summary, the District's customers have been doing a good job conserving water. Service Area 1 reduced its water consumption by 43.5% in March 2016 in comparison to March 2013 usage. Service Area 2 reduced water consumption by 25.5% for the same period. The combined reduction for both service areas was 38.68%. The cumulative reduction since June 2015, now totals 35.12% which is well above the District's new target of 25%.

A discussion occurred regarding the idea of customers being able to irrigate three days a week.

Bob Gray, Director, inquired when the Administrative Citation clock restarts. Mr. Madison responded June 1<sup>st</sup>, but it is up for discussion.

A discussion occurred regarding a policy for customers applying for a watering exception.

The Board agreed to post-pone action on the potential changes to the current stage of the District's Water Shortage Contingency Plan until the regular board meeting in May, pending the State's decision.

### 5. Florin Resource Conservation District Conservation Activities – April 2016

Mark Madison, General Manager, presented the Florin Resource Conservation District Conservation Activities – April 2016 to the Board.

Mr. Madison gave the Board an overview of the recommendations from the Conservation Committee meeting that was held on April 6, 2016 and asked the Board if they wanted Mr. Madison to proceed with the recommendations. The recommendations are as follows:

- 1) The FRCD should consider submitting an application to become the Groundwater Sustainability Agency, in compliance with the 2014 Sustainable Groundwater Management Act, for its jurisdictional area.

- 2) The General Manager should engage with the Fire Districts to discuss the potential for conducting weed abatement within the FRCD.
- 3) The General Manager should engage with the appropriate representative of the Building Industry Association (BIA) to explore potential synergies between the FRCD and the BIA as it relates to water supply assessments and wetland mitigation.
- 4) The General Manager should engage with Supervisor Don Nottoli on the potential for development mitigation activities.
- 5) The General Manager should engage with the California Resource Conservation Districts and that Natural Resource Conservation Service regarding grant funding opportunities.

Chuck Dawson, Chairman, inquired what weed abatement is. Elliot Mulberg, Director, explained the process of weed abatement and that the FRCD would rent the equipment needed and perform the activity.

Bob Gray, Director, inquired if the insurance policy would cover weed abatement. Mr. Madison responded that he would have to look into that.

Jeanne Sabin, Director, inquired if agenda item no. 5, Florin Resource Conservation District Conservation Activities – April 2016, could be moved because the outcome of agenda item no. 10 could guide the FRCD activities. Mr. Mulberg concurred with Ms. Sabin's statement to move this item after agenda item no. 10.

## 6. Elk Grove Water District Operations Report – March 2016

Mark Madison, General Manager, presented the Elk Grove Water District Operations Report – March 2016 to the Board.

Comments and inquiries included:

- 467 Door Hangers
- 67 Shut Offs
- 3 Water Quality Complaints for the month
- 68 Hydrant Maintenance
- 111 Valve Exercising
- 41 Service Line Replacements
- Monthly Production
  - Well 1D – no production
  - Well 4D – ran the last two weeks of the month
  - Well 11D – ran the first two weeks of the month
  - Well 14D – no production
  - Well 3 – didn't run much only for sounding purposes
  - Well 8 – no production
  - Well 9 – did not need to run due to demand being low
  - Well 13 – offline, working on Arsenic level
- Combined Total Production – usage down from last year and also 2013
- Total Demand/Production – usage down from last year and also 2013
- Static and Pumping levels – nothing new to report, second quarter data will be available in the May report
- Water samples came back normal
- No water waste discharge for the month of March
- Preventative Maintenance Program is on track
- 3 outstanding delinquents for the Backflow Prevention Program

- 5 Safety Meetings for the month
- 3 Service line leaks for the month – all were cracked poly lines
- Pressure maps – Sample Station Area (SSA)1 and SSA2 are running about 15% in the 65-75 PSI range due to the running of the shallow wells which aren't controlled by the Variable Frequency Drive (VFD)

## **7. Elk Grove Water District Fiscal Year 2015-16 Quarterly Operating Budget Status Report**

Jim Malberg, Finance Manager, presented the Elk Grove Water District Fiscal Year 2015-16 Quarterly Operating Budget Status Report to the Board. Mr. Malberg explained to the Board that the District has completed about 75% of the 2015-16 Fiscal Year.

Comments and inquiries include:

- 1) 75% of the way through the year the District is on the high side due to some items that weren't included into the budget last year, these reasons are listed below:
  - Board approved the bonus for the General Manager which was not included into last year's budget
  - Longevity pay was not accounted for in last year's budget
  - Positions/Promotions were not accounted for in last year's budget
  - Workman's Comp came in higher under the true-up from last year

Tom Nelson, Vice-Chairman, inquired if the figures show that capitalized labor has been taken out for the projects. Mr. Malberg responded yes.

Elliot Mulberg, Director, inquired if the third quarter figures act as a prediction for the end of the year for the next year's budget. Mr. Malberg responded yes.

Mr. Mulberg commented that he would like to see a projection of the year end instead of a third quarter report.

## **8. Elk Grove Water District Fiscal Year 2015-16 Quarterly Capital Reserves Status Report**

Jim Malberg, Finance Manager, presented the Elk Grove Water District Fiscal Year 2015-16 Quarterly Capital Reserves Status Report to the Board. In summary, the total amount available for reserves on July 1, 2015 was \$11,500,000. Based on Board policy adopted August 22, 2012, the reserves are allocated first to the Operating Reserve (120 days of expenses), then to the Fiscal Year 2015-16 capital budget, followed by elections/special studies, with the balance allocated to future capital improvements and capital replacements in the ratio of 75:25, respectively. As of March 31, 2016, the District spent \$890,391 on capital projects leaving a remaining total reserve balance of \$10,609,609.

## **9. Banking and Payment Processing Services**

The Board pulled this agenda item.

## **10. Sustainable Groundwater Management Act Quarterly Update**

Bruce Kamilos, Assistant General Manager, presented the Sustainable Groundwater Management Act Quarterly Update to the Board.

Comments and inquiries include:

- At the SCGA board meeting on April 20, 2016, the board:
  - Passed a resolution for SCGA staff to set a public hearing and provide the required notice and publications for SCGA to form a GSA in the South



- American sub-basin (sub-basin 5-21.65). The resolution passed on an 8-3 vote. The three (3) board members that opposed the resolution were FRCD, Omochumne-Hartnell Water District (OHWD), and Agricultural Interests.
- Passed a resolution for SCGA staff to move forward with an alternative plan submittal in place of a Groundwater Sustainability Plan (GSP). The resolution passed on a 7-3-1 vote. The three (3) board members that opposed the resolution were FRCD, OHWD, and Agricultural Interests.
  - At the SGMA Subcommittee meeting on April 7, 2016, the subcommittee:
    - Approved a motion recommending to the SCGA Board to adopt a resolution stating SCGA's intent to move forward with an alternative submittal. FRCD opposed the motion.
    - Approved a motion recommending to the SCGA Board to adopt a resolution commencing the SGMA GSA formation process relative to the proposed boundaries. FRCD opposed the motion.
  - At the SGMA Subcommittee meeting on March 10, 2016, Bruce Kamilos presented the proposed new joint powers agreement (JPA) to the subcommittee members. Several members asked what FRCD sought to achieve with the new JPA. FRCD is scheduled to provide an additional presentation of the proposed new JPA at the SGMA subcommittee on April 21, 2016.
  - At the SCGA board meeting on March 9, 2016, the board:
    - Deferred discussion of FRCD's proposed new JPA to the SGMA Subcommittee. Two directors questioned why the FRCD didn't have documentation that stated the FRCD Board supported the JPA.
  - At the SCGA board meeting on February 10, 2016, the board:
    - Directed SCGA staff to conduct public outreach, notice, and hearing required to file a Notice of GSA Formation for SCGA service area, within the South American sub-basin, if Sloughhouse RCD includes any portion of the South American subbasin as part of their GSA filing.
    - Directed the SCGA Executive Director to file a letter in opposition of Omochumne-Hartnell Water District's and Sloughhouse RCD's proposed boundary adjustment.

Mark Madison, General Manager, stated that, "If the FRCD needs something to do, this is it."

Mr. Madison explained to the board that when SCGA files to become a GSA and is posted on the Department of Water Resources site, then that is when the clock starts for the District.

Elliot Mulberg, Director, inquired if the SCGA decides they want to become a GSA under that legislation that the District would have to work with SCGA and SCGA would need to agree and allow the District to do ours. Mr. Madison responded if SCGA files then the clock starts for the District and we have 90 days to file.

Tom Nelson, Vice-Chairman, spoke regarding the logistics of filing an alternative plan by January 1, 2017.

Mr. Madison stated three reasons for the FRCD to become a GSA:

- 1) Should the FRCD apply to be its own Groundwater Sustainable Agency (GSA) over its own jurisdiction?
- 2) Do we think the FRCD could be a good leader as a GSA?
- 3) Only way to preserve the FRCD boundaries and have leverage.

Jeanne Sabin, Director, inquired if the attorney from Downey Brand was going to be present at tonight's meeting. Mr. Madison responded stating that the Board needs to advise as to whether the attorney should be present for future meetings.

Ms. Sabin inquired how the attorney feels about this. Mr. Madison responded stating that his opinion has not changed and he specified that the District should continue to engage with SCGA but ask if they would agree to provide the District with 2-3 things, that the District has asked for, then maybe it would be ok if they set a defined timeline on starting to revise the Joint Powers Agreement including the District as a signatory.

Mr. Madison recommended to the Board wait one month so staff can gather more information.

Ms. Sabin inquired if the District can establish the next public meeting as a means to form a GSA. Mr. Madison responded stating there is a process the District will have to follow.

A lengthy discussion followed.

Jay Schneider, Sloughhouse RCD, commented that the Sloughhouse RCD and the Omochumne-Hartnell Water District's filed to be a GSA last week.

Mr. Schneider stated he has encouraged others to become a GSA, so that they have representation and a role. He then stated that all GSA's will have to coordinate a Groundwater Sustainability Plan (GSP) together.

Chuck Dawson, Chairman, inquired if the District should wait a month to decide on taking action to file for a GSA. Mr. Nelson responded it is likely the District will get some of the requested changes as to who will be a representative on the Board.

Mr. Madison stated he strongly recommended the Board wait one month to make a decision.

Bob Gray, Director, inquired how much would it cost to set up a GSA. Mr. Madison responded stating he needs more time to prepare this information.

Further discussion followed.

Mr. Mulberg commented that he would like to see a report on the timeline, process, potential cost, and potential downsides of doing this. Mr. Madison responded stating he can provide that to the Board at the May board meeting.

Ms. Sabin inquired how many months has the District been going to the SCGA meetings. Mr. Nelson responded a little less than a year.

Ms. Sabin inquired how long the attorney from Downey Brand has been advising to become a GSA. Mr. Madison responded that he has expressed periodically that the District should be considering this.

Mr. Gray commented that the Board will need to have a better understanding of what to expect.

Mr. Mulberg inquired if the District had a public hearing would the timeline, process, potential cost, and potential downsides of doing this need to be identified. Mr. Madison responded stating that he would do his best to provide the information.

Mr. Mulberg motioned to schedule a public hearing to become a GSA. There was no second.

The Boards consensus was to bring back this agenda item to the regular board meeting in May.

## **5. Florin Resource Conservation District Conservation Activities – April 2016 – Continued**

The discussion on the Sustainable Groundwater Management Act ended and the Board continued their discussion regarding the Florin Resource Conservation District Conservation Activities – April 2016.

Mr. Madison asked the Board how they would like to proceed with the recommendations. The recommendations are as follows:

- 1) The FRCD should consider submitting an application to become the Groundwater Sustainability Agency, in compliance with the 2014 Sustainable Groundwater Management Act, for its jurisdictional area.
- 2) The General Manager should engage with the Fire Districts to discuss the potential for conducting weed abatement within the FRCD.
- 3) The General Manager should engage with the appropriate representative of the Building Industry Association (BIA) to explore potential synergies between the FRCD and the BIA as it relates to water supply assessments and wetland mitigation.
- 4) The General Manager should engage with Supervisor Don Nottoli on the potential for development mitigation activities.
- 5) The General Manager should engage with the California Resource Conservation Districts and that Natural Resource Conservation Service regarding grant funding opportunities.

MSC (Sabin/Dawson) would like to suspend items no. 2-5 now and stay focused on item no. 1.

A discussion followed.

Mr. Mulberg stated that he has concerns for the revenue of the FRCD during the time the District focuses on item no. 1.

Mr. Nelson suggested Mr. Madison to look into items no. 3 and 4 this month.

Ms. Sabin stated she was not a fan of item no. 2.

MSC (Mulberg/Dawson) to have the General Manager proceed with item no. 1, 3, 4, 5, 4/1: Ayes: Dawson, Gray, Mulberg, and Nelson; Noes: Sabin.

## **11. California Special Districts Association Call for Nominations – Board of Directors**

Stefani Phillips, Board Secretary, presented the California Special Districts Association for Nominations – Board of Directors to the Board. In summary, The California Special Districts Association (CSDA) is calling for nominations for the Board of Directors Sierra Network,

Seat B, for the term beginning January 1, 2017 through December 31, 2019. The CSDA Board of Directors (CSDA Board) governing body is responsible for all policy decisions related to the CSDA's member services, legislative advocacy, education and resources.

Elliot Mulberg, Director, recommended that the District does not nominate anyone since the incumbent is running.

The Boards consensus was to take no action on this item.

## 12. General Manager's Report – April 2016

Mark Madison, General Manager, present the General Manager's Report – April 2016 to the Board.

Mr. Madison presented his activities since April 27, 2016, they are as follows:

- Florin Resource Conservation District
  - Prepared a summary of the Potential FRCD Conservation Activities as contained in the FRCD Needs Assessment.
  - Conducted the Conservation Committee meeting on April 6, 2016.
  - Prepared the April 2016 Florin Resource Conservation Activities Staff Report.
  - Continued to coordinate the FRCD's efforts to sponsor and participate with the Greener Gardens Landscaping Tour and the EcoLandscape workshop at the City of Elk Grove to be held on April 23, 2016 and April 30, 2016, respectively.
- Elk Grove Water District
  - Participated in a banking services meeting to evaluate banking options for the EGWD.
  - Conducted a retirement luncheon for a retiring employee.
  - Initiated the kickoff of the staff's work to prepare the FY 2016-17 EGWD Operating and Capital Improvement Program (CIP) budgets.
  - Met with a consultant to potentially initiate outside services to conduct safety monitoring and training for the District.
  - Represented the Elk Grove Water District at the ACWA/JPIA Executive Board meeting where our application to become insured by ACWA/JPIA was considered.
  - Met with staff and consultants to review options for resolving the arsenic problems at Water Well 13.
  - Met with staff on the efforts to implement a new fire backflow prevention program.
  - Initiated efforts to maintain certain activities, previously performed by the Management Analyst, such as the water conservation program and water waste investigations.
  - Conducted an Infrastructure Committee meeting to explore potential improvements to the District's Administration building.
  - Conducted two private meetings with Board Members.
  - Assisted Director Nelson in representing the FRCD/EGWD at two Sacramento Central Groundwater (SCGA) Subcommittee meetings and one SCGA Board meeting.
  - Conducted an Information Technology (IT) budget meeting to address potential IT expenditures during FY 2016-17.
  - Conducted a second Infrastructure Committee meeting to review the proposed 2017-21 CIP expenditures.
  - Assisted in the efforts to complete the purchase of a property from the Wilton Rancheria Tribe.
  - Participated in a coordination meeting between the EGWD and the Sacramento County Water Agency to resolve various problems, including the

SCWA efforts to master meter wholesale water deliveries to the EGWD Service Area 2.

**13. Directors Comments**

No comments were made.

Adjourn to Regular Meeting on Wednesday, May 25, 2016 at 6:30 p.m.

Respectfully submitted,

*Stefani Phillips*

Stefani Phillips, Secretary

SP/CR



**FRCD Cash Flow  
For the Month Ended April 30, 2016**

<b>Cash in Bank – Beginning</b>	<b>\$ 104,084.66</b>
<b>Receipts:</b>	
<b>Interest Earned</b>	<b>\$ 6.85</b>
<b>Disbursements:</b>	
<b>Cash in Bank – Ending</b>	<b>\$ 104,091.51</b>

Check History Report

4/1/2016 to 4/30/2016  
Elk Grove Water District

Check Number	Check Date	Vendor Number	Name	Check	Explanation
040404	4/6/2016	B WAGNE	BRANDON WAGNER	43.16	Clothing Reimbursement
040405	4/6/2016	BSK4	BSK ASSOCIATES	144.00	Sampling
040406	4/6/2016	COUNT11	COUNTY OF SACRAMENTO REAL ESTATE DIVISION	7,500.00	Business CTR/CSD BLDG Water Main Easement
040407	4/6/2016	EGWF	ELK GROVE WESTERN FESTIVAL	500.00	
040408	4/6/2016	ISCC	ISCC, INC	149.00	
040409	4/6/2016	JAN PRO	JAN-PRO CLEANING SYSTEMS OF	515.00	Janitorial Services-MOC/ADMIN
040410	4/6/2016	MAITA	MAITA CHEVROLET	319.90	Repairs & Maintenance-Vehicles
040411	4/6/2016	RCB DO	CARD SERVICE CENTER	996.88	Hotel-CSMFO-Jim/Donella
040412	4/6/2016	RCB SH	CARD SERVICE CENTER	411.58	Materials/Supplies-Treatment
040413	4/6/2016	RCBJC	CARD SERVICE CENTER	434.20	Materials/Supplies-Distribution
040414	4/6/2016	REPUBLI	REPUBLIC SERVICES #922	769.41	
040415	4/6/2016	SMUD	SMUD	814.42	
040416	4/6/2016	SMUD	SMUD	3,161.03	
040417	4/6/2016	SMUD	SMUD	5,884.07	
040418	4/6/2016	SMUD	SMUD	95.71	
040419	4/6/2016	SMUD	SMUD	5,220.47	
040420	4/6/2016	SMUD	SMUD	803.31	
040421	4/6/2016	SMUD	SMUD	646.64	
040422	4/6/2016	SMUD	SMUD	44.64	
040423	4/6/2016	SMUD	SMUD	337.49	
040424	4/6/2016	TOSHIBA	TOSHIBA FINANCIAL SERVICES	528.93	Copier-ADMIN
040425	4/6/2016	TULLY	TULLY & YOUNG, INC.	4,625.00	UWMP 2015
040426	4/6/2016	VERIZON	VERIZON WIRELESS	416.38	
040427	4/12/2016	SCOTSMA	WILLIAMS SCOTSMAN, INC	1,233.93	Temp Trailer-MOC
040428	4/15/2016	BG SOLU	SOLUTIONS BY BG INC.	5,073.00	Daily Tasks/Help Tickets
040429	4/18/2016	A. TEIC	A. TEICHERT & SON, INC	688.67	Materials/Supplies-Colton
040430	4/18/2016	ACWAJPI	CB&T/ACWA-JPIA	56,359.42	
040431	4/18/2016	AFLAC	AFLAC	1,511.99	
040432	4/18/2016	AQUA	AQUA SIERRA CONTROLS, INC	769.99	Service & Calibrate 2 ABB Meters
040433	4/18/2016	BRINKS	BRINK'S INCORPORATED	279.46	
040434	4/18/2016	BSK4	BSK ASSOCIATES	295.00	Sampling
040435	4/18/2016	CAL STE	CALIFORNIA STEAM	343.96	
040436	4/18/2016	CCPPM	CCPPM	11.20	
040437	4/18/2016	CONSOLI	CONSOLIDATED COMMUNICATIONS	241.11	Ethernet Service

040438	4/18/2016	CONSOLI	CONSOLIDATED COMMUNICATIONS	1,250.36	Phones-MOC/ADMIN
040439	4/18/2016	COUNTY3	COUNTY OF SACRAMENTO	100.00	
040440	4/18/2016	CRCHR	CHRISTOPHER HOFFMANN-RIVERA	42.75	Account Closed-Credit Refund
040441	4/18/2016	CRFBLY	BLONG LEE	69.65	Account Closed-Credit Refund
040442	4/18/2016	CRFKEN	KENT STREET TIC	61.20	Account Closed-Credit Refund
040443	4/18/2016	CRFLEN	LENNAR HOMES CA. INC	28.83	Account Closed-Credit Refund
040444	4/18/2016	CRFLEN	LENNAR HOMES CA. INC	12.20	Account Closed-Credit Refund
040445	4/18/2016	CRFLEN	LENNAR HOMES CA. INC	12.20	Account Closed-Credit Refund
040446	4/18/2016	CRFLEN	LENNAR HOMES CA. INC	41.56	Account Closed-Credit Refund
040447	4/18/2016	CRFTMG	TMG RENTALS INC	18.72	Account Closed-Credit Refund
040448	4/18/2016	CRFYLL	YEE LANCE LEE	37.63	Account Closed-Credit Refund
040449	4/18/2016	CRFCHTI	CHICAGO TITLE	324.13	Account Closed-Credit Refund
040450	4/18/2016	CRFCOH	CONSTANCE HEGUIAGARAY	9.21	Account Closed-Credit Refund
040451	4/18/2016	CRFCVE	CENTRAL VALLEY ENGINEERING &	1,486.84	Account Closed-Credit Refund
040452	4/18/2016	CRFJS	JASON SCHIERLING	146.96	Account Closed-Credit Refund
040453	4/18/2016	DATAPRO	DATAPROSELLC	7,195.58	Account Closed-Credit Refund
040454	4/18/2016	EGFORD	ELK GROVE FORD	94.00	Monthly Billing
040455	4/18/2016	EGFORD	ELK GROVE FORD	516.53	Repairs & Maintenance-Vehicles
040456	4/18/2016	ELKLOC	ELK GROVE LOCK AND SAFE CO	15.07	Repairs & Maintenance-Vehicles
040457	4/18/2016	FASTENA	FASTENAL COMPANY	61.13	
040458	4/18/2016	GOLDEN	GOLDEN STATE FLOW	1,557.19	Materials/Supplies-Distribution
040459	4/18/2016	INTSTA	INTERSTATE OIL COMPANY	980.51	Fuel
040460	4/18/2016	JAYS	JAY'S TRUCKING SERVICE	305.99	Materials/Supplies-Colton
040461	4/18/2016	KAISER2	KAISER FOUNDATION HEALTH PLAN	230.00	
040462	4/18/2016	LAKEV	LAKE VUE ELECTRIC, INC	458.00	
040463	4/18/2016	PACBEN	PACIFIC BENEFIT CONSULTANTS,	75.00	
040464	4/18/2016	PACBEN	PACIFIC BENEFIT CONSULTANTS,	100.00	
040465	4/18/2016	PACBEN	PACIFIC BENEFIT CONSULTANTS,	16.00	
040466	4/18/2016	PACBEN	PACIFIC BENEFIT CONSULTANTS,	16.00	
040467	4/18/2016	PACBEN	PACIFIC BENEFIT CONSULTANTS,	103.50	
040468	4/18/2016	PACBEN	PACIFIC BENEFIT CONSULTANTS,	100.00	
040469	4/18/2016	PACBEN	PACIFIC BENEFIT CONSULTANTS,	16.00	
040470	4/18/2016	PREALL	PREFERRED ALLIANCE, INC	393.00	
040471	4/18/2016	RADIAL	RADIAL TIRE OF ELK GROVE	1,112.99	Repairs & Maintenance-Vehicles
040472	4/18/2016	RCBMM	CARD SERVICE CENTER	2,750.36	Hotel, Contracted Services, Meals, ACWA Conference
040473	4/18/2016	RCBRS	CARD SERVICE CENTER	1,139.56	Materials/Supplies-Colton
040474	4/18/2016	RCBSP	CARD SERVICE CENTER	1,084.45	Meals, Training, Western Festival Materials
040475	4/18/2016	ROTH	ROTH STAFFING COMPANIES, L.P.	1,078.99	Temporary Customer Service Help
040476	4/18/2016	SAC5	SACRAMENTO COUNT	19.00	Lien Releases
040477	4/18/2016	SAC5	SACRAMENTO COUNT	19.00	Lien Releases
040478	4/18/2016	SAC5	SACRAMENTO COUNT	19.00	Lien Releases
040479	4/18/2016	SAC5	SACRAMENTO COUNT	19.00	Lien Releases
040480	4/18/2016	SIERRA	SIERRA OFFICE SUPPLIES	358.56	
040481	4/18/2016	SUMMIT	AIR WORKS INC	165.00	
040482	4/18/2016	SWRCB	SWRCB	5,105.61	Large System Fees-July-December 2015
040483	4/18/2016	TRAFFS	TRAFFIC SIGN SPECIALTIES	424.44	



040484	4/18/2016	ULTRA	ULTRA TRUCK WORKS, INC	122.80	
040485	4/18/2016	WAC	WAC SOLUTIONS PARTNERS	95.00	
040486	4/20/2016	BAY ALA	BAY ALARM COMPANY	36.75	
040487	4/20/2016	CAL STE	CALIFORNIA STEAM	25.49	
040488	4/20/2016	COEG	CITY OF ELK GROVE	2,782.90	Colton/Orton Inspections
040489	4/20/2016	COUNTY	COUNTY OF SACRAMENTO	329,530.11	Sacramento County Water Billing-Feb/Mar
040490	4/20/2016	COUNTY4	SACRAMENTO COUNTY UTILITIES	103.71	
040491	4/20/2016	CRF FN	FIDELITY NATIONAL TITLE	6.47	Account Closed-Credit Refund
040492	4/20/2016	CRF FTO	FIRST AMERICAN TITLE CO	16.98	Account Closed-Credit Refund
040493	4/20/2016	CRFSD	SANDRA DONATO	44.58	Account Closed-Credit Refund
040494	4/20/2016	CSDS	CSDS SACRAMENTO	75.55	
040495	4/20/2016	DOWNEY	DOWNEY BRAND, LLP	3,091.26	Legal
040496	4/20/2016	EFFECT	EFFECTIVE PHONE SOLUTIONS INC.	1,265.85	Disaster Recovery
040497	4/20/2016	FASTENA	FASTENAL COMPANY	109.44	
040498	4/20/2016	FLORIN	FLORIN AUTOMOTIVE REPAIR	355.28	Repairs & Maintenance-Vehicles
040499	4/20/2016	FRONT C	FRONTIER COMMUNICATIONS	221.38	Well site communications-Alarm and Security
040500	4/20/2016	FRONT C	FRONTIER COMMUNICATIONS	169.37	Well site communications-Alarm and Security
040501	4/20/2016	FRONT C	FRONTIER COMMUNICATIONS	174.75	Well site communications-Alarm and Security
040502	4/20/2016	GOLDEN	GOLDEN STATE FLOW	395.90	
040503	4/20/2016	GRAINGE	GRAINGER	87.05	
040504	4/20/2016	HANFORD	HANFORD READY MIX INC.	197.40	
040505	4/20/2016	HERBURG	HERBURGER PUBLICATIONS, INC	590.00	Home & Garden Ad
040506	4/20/2016	PAULA M	PAULA MAITA & COMPANY	241.38	
040507	4/20/2016	PEST	PEST CONTROL CENTER INC	160.00	
040508	4/20/2016	PG&E	PACIFIC GAS & ELECTRIC	31.66	Postage
040509	4/20/2016	PURCH	PURCHASE POWER	520.99	
040510	4/20/2016	RADIAL	RADIAL TIRE OF ELK GROVE	154.95	
040511	4/20/2016	ROTH	ROTH STAFFING COMPANIES, L.P.	900.24	Temporary Customer Service Help
040512	4/20/2016	SIERRA	SIERRA OFFICE SUPPLIES	147.21	
040513	4/20/2016	TRAFF S	TRAFFIC SIGN SPECIALTIES	99.36	Audit Services
040514	4/27/2016	BADAWI	BADAWI & ASSOCIATES	11,520.00	Daily Tasks/Help Tickets
040515	4/27/2016	BAY ALA	BAY ALARM COMPANY	324.45	Sampling
040516	4/27/2016	BG SOLU	SOLUTIONS BY BG INC.	4,959.00	ADMIN BLDG Improvements
040517	4/27/2016	BSK4	BSK ASSOCIATES	1,323.00	
040518	4/27/2016	BULLE	BULLET GUARD	10,968.57	
040519	4/27/2016	CAP AIR	CAPITAL AIR TOOL, LLC.	225.16	
040520	4/27/2016	COUNTY4	SACRAMENTO COUNTY UTILITIES	103.70	
040521	4/27/2016	GHA	GHA TECHNOLOGIES, INC	475.33	
040522	4/27/2016	GRAINGE	GRAINGER	37.06	Education Reimbursement
040523	4/27/2016	HINTON	SEAN HINTON	206.00	Fuel
040524	4/27/2016	INT STA	INTERSTATE OIL COMPANY	1,387.50	
040525	4/27/2016	JAYS	JAY'S TRUCKING SERVICE	449.31	Electricity for Temp Trailer at MOC
040526	4/27/2016	LAKE V	LAKE VUE ELECTRIC, INC	2,680.00	
040527	4/27/2016	PACE	PACE SUPPLY CORP	493.50	
040528	4/27/2016	PACTECH	PACIFIC TEK	594.90	Temporary Customer Service Help
040529	4/27/2016	ROTH	ROTH STAFFING COMPANIES, L.P.	1,125.03	

040530	4/27/2016	RWA	REGIONAL WATER AUTHORITY	886.60	Annual Support Renewal
040531	4/27/2016	TRUEPOI	TRUEPOINT SOLUTIONS	10,000.00	
040532	4/27/2016	VALL MO	VALLEY MOTOR PARTS	14.03	
040533	4/27/2016	VANCE	JOHN VANCE	183.44	
040534	4/27/2016	WILSON	MARCELL WILSON	222.39	Clothing Reimbursement
040535	4/27/2016	ZOOM	ZOOM IMAGING SOLUTIONS, INC	156.33	
040536	4/28/2016	A. TEIC	A. TEICHERT & SON, INC	217.61	Final Payment for Fire System
040537	4/28/2016	BAY ALA	BAY ALARM COMPANY	5,979.00	Account Closed-Credit Refund
040538	4/28/2016	CRF FT	FIRST AMERICAN TITLE	44.79	Account Closed-Credit Refund
040539	4/28/2016	CRF FT	FIRST AMERICAN TITLE	43.70	Account Closed-Credit Refund
040540	4/28/2016	CRF O	ORANGE COAST TITLE COMPANY	2.37	Account Closed-Credit Refund
040541	4/28/2016	CRFFTC	FIRST AMERICAN TITLE COMPANY	82.76	Account Closed-Credit Refund
040542	4/28/2016	CRFID	FIDELITY NATIONAL TITLE CO	3.54	Account Closed-Credit Refund
040543	4/28/2016	CRFJEP	JOHN & ELINOR PFEIFER	34.20	Account Closed-Credit Refund
040544	4/28/2016	CRFJOO	JOHNNY O'NEAL	7.44	Account Closed-Credit Refund
040545	4/28/2016	CRFSTS6	STEWART TITLE OF SACRAMENTO	2.99	Account Closed-Credit Refund
040546	4/28/2016	FASTENA	FASTENAL COMPANY	75.21	Account Closed-Credit Refund
040547	4/28/2016	PAC BEN	PACIFIC BENEFIT CONSULTANTS,	16.00	Account Closed-Credit Refund
040548	4/28/2016	SIERRA	SIERRA OFFICE SUPPLIES	369.59	Account Closed-Credit Refund
040549	4/28/2016	UNITED	UNITED SITE SERVICES	250.15	Account Closed-Credit Refund
040550	4/28/2016	WHITE	HDS WHITE CAP CONST SUPPLY	82.19	Account Closed-Credit Refund
040551	4/29/2016	WILSON	MARCELL WILSON	65.08	Account Closed-Credit Refund
040552	4/30/2016	HEWITT	Aaron Hewitt	62.42	Account Closed-Credit Refund
040553	4/30/2016	T FRANK	TRAVIS FRANKLIN	42.50	Account Closed-Credit Refund
				<b>Total:</b>	<b>527,811.30</b>

Clothing Reimbursement  
Travel Reimbursement  
Travel Reimbursement

Elk Grove Water District  
Active Account Information  
4/30/2016

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
<b>Water Accounts:</b>												
<b>Metered</b>												
Residential	11,669	11,658	11,647	11,637	11,643	11,656	11,649	11,632	11,654	11,654	11,666	
Commercial	513	517	518	521	519	519	521	522	521	521	521	
Fire Service	121	122	122	124	122	122	122	122	122	122	123	
<b>Total Accounts</b>	12,303	12,297	12,287	12,282	12,284	12,297	12,292	12,276	12,297	12,310	-	-

Elk Grove Water District  
Active Account Information  
FY 2014/2015

	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
<b>Water Accounts:</b>												
<b>Non-metered</b>												
Residential	135	133	134	133	107	80	65	21	20	-	-	-
Commercial	47	33	33	35	21	10	10	4	4	-	-	-
<b>Metered</b>												
Residential	11,494	11,484	11,490	11,473	11,479	11,513	11,525	11,579	11,607	11,632	11,651	11,658
Commercial	457	458	459	457	479	492	502	509	512	514	511	512
Fire Service	123	121	121	121	121	121	121	121	121	121	121	121
<b>Total Accounts</b>	12,256	12,229	12,237	12,219	12,207	12,216	12,223	12,234	12,264	12,267	12,283	12,291

# Elk Grove Water District

## Bond Covenant Status

### For Fiscal Year 2015-16

As of April 30, 2016

<b>Operating Revenues:</b>	
<b>Charges for Services</b>	\$ 10,875,011
 <b>Operating Expenses:</b>	
Salaries & Benefits	2,745,032
Seminars, Conventions and Travel	32,925
Office & Operational	556,213
Purchased Water	1,994,543
Outside Services	510,875
Equipment Rent, Taxes, an Utilities	234,444
Total Operating Expenses	6,074,032
<b>Income From Operations</b>	\$ 4,800,979
Interest & Principal Payments	
2,225,240 interest + 1,430,000 principal	3,046,033 *
 <b>Debt Service Coverage Ratio:</b>	
<b>Actual</b>	<b>1.58</b>
<b>Required</b>	<b>1.15</b>

\* Note: The calculation for the period = the percentage of the year completed.

Elk Grove Water District  
Revenues and Expenses Actual to Budget  
April 30, 2016

General Ledger Reference	10/12-83.33%			
	April Activity	April Budget	Variance	%
	YTD Activity	YTD Budget	Variance	%
Revenues	1,034,111	1,115,496	(81,384)	-7.30%
Salaries & Benefits (1)	263,636	257,578	6,058	2.35%
Seminars, Conventions and Travel	1,651	3,679	(2,029)	-55.14%
Office & Operational	37,742	82,767	(45,024)	-54.40%
Purchased Water (2)	184,422	240,976	(56,553)	-23.47%
Outside Services	53,940	67,665	(13,725)	-20.28%
Equipment Rent, Taxes, Utilities	20,616	36,950	(16,334)	-44.21%
<b>Total Operational Expenses</b>	<b>562,007</b>	<b>689,615</b>	<b>(127,608)</b>	<b>-18.50%</b>
Net Operations	<u>472,104</u>	<u>425,881</u>	<u>46,223</u>	<u>10.85%</u>
Non-Operating Activity				
Capital Equipment & Expenditures	129,167	129,167	0	0.00%
Bond Interest Accrued	185,437	185,437	0	0.00%
Interest Earned	136	1,667	(1,530)	-91.83%
Other Income	11,903	0	11,903	
<b>Revenues in Excess of Expenditures (Net Revenues)</b>	<b>169,541</b>	<b>1,749,514</b>	<b>1,579,973</b>	<b>89.84%</b>
Capital Expenses				
Capital Improvements			528,565	
Capital Replacements			342,694	
Equipment			62,255	
Bond Retirement: \$1,430,000			1,191,667	
<b>Total Capital And Debt Retirement Expenditures</b>			<b>2,125,181</b>	
<b>Net Position after Capital and Debt Retirement Expenditures</b>			<b>(375,667)</b>	

(1) Approximately \$226,194 of the budgeted \$509,238 of salary & benefit expenses has been capitalized to various capital projects.

(2) Estimated Expenditures: Purchased Water \$184,422 in April.

**Florin Resource Conservation District  
CASH - Detail Schedule of Investments  
4/30/2016**



Account number / name	Investment Name	Investment Type	Restrictions	Market Value
<b>HELD BY BOND TRUSTEE:</b>				
<b>G/L Account # Money Market Fund</b>				
1103-000-20 Water	BNY 113757 FRCD 2002 INST PMT SER B	MM Mutual Fund	Restricted	2.00
Water	BNY 113759 FRCD 2002 INST PMT SER B	MM Mutual Fund	Restricted	1.01
1102-000-20 Water	BNY 113756 FRCD INST PMT SER A	MM Mutual Fund	Restricted	187,950.44
1107-000-20 Water	BNY 113576 FRCD 2003 A CONST FUND	MM Mutual Fund	Restricted	0.00
1122-000-20 Water	BNY 113584 FRCD 2005 A CONST FUND	MM Mutual Fund	Restricted	0.00
1123-000-20 Water	BNY 113585 FRCD 2005 A INST PM	MM Mutual Fund	Restricted	192,425.27
1121-000-20 Water	BNY 113586 FRCD 2005 A RATE STAB	MM Mutual Fund	Restricted	0.00
Water	BNY 113587 FRCD 2005 A RES FD	MM Mutual Fund	Restricted	1.00
1101-000-20 Water	BNY 113764 FRCD 2002 A/B RATE STABILIZATION	MM Mutual Fund	Restricted	0.00
1108-000-20 Water	BNY 892747 FRCD 2014A COI	MM Mutual Fund	Restricted	0.00
1109-000-20 Water	BNY 892745 FRCD 2014A REDEMPTION	MM Mutual Fund	Restricted	0.00
1110-000-20 Water	BNY 892744 FRCD 2014A DEBT SERVICE	MM Mutual Fund	Restricted	9,145.84
			<b>Subtotal</b>	<b>\$ 389,525.56</b>
1001-000-20 Water	CASH ON HAND		Unrestricted	\$ 300.00
<b>HELD BY RIVER CITY BANK:</b>				
1010-000-10 FRCD	RCB 1111057982 CHECKING ACCOUNT		Unrestricted	104,091.51
1010-000-20 Water	RCB 1111063486 GENERAL CHECKING		Unrestricted	451,334.34
1020-000-20 Water	RCB 1111028001 MONEY MARKET		Unrestricted	1,202,161.06
1030-000-20 Water	RCB 1111025851 CHARGE CARD ACCOUNT		Unrestricted	243,313.60
1040-000-20 Water	RCB 1111096589 HIGH YIELD MONEY MARKET		Unrestricted	253.37
1050-000-20 Water	RCB 1111099502 DEBT SERVICE ACCOUNT		Unrestricted	8.27
1060-000-20 Water	RCB 1111097844 PAYROLL ACCOUNT		Unrestricted	179,760.13
1070-000-20 Water	RCB 1111097933 WEB PAYMENT RECEIPTS		Unrestricted	132,640.72
			<b>Subtotal</b>	<b>\$ 2,313,563.00</b>
1080-000-20 Water	Office of the Treasurer - Sacramento California	Investment Pool	Unrestricted	\$ 7,845,873.55
Water	Union Bank Global Custody Services-6736302330		N/A	\$ 1,000,000.00
Water	CALTrust Short Term	Investment	N/A	\$ 1,000,000.00
Water	CALTrust Medium Term	Investment	N/A	\$ 1,000,000.00
			<b>Total</b>	<b>\$ 13,549,262.11</b>
			<b>Total Restricted</b>	<b>\$ 389,525.56</b>
			<b>Total Unrestricted</b>	<b>\$ 13,159,736.55</b>

**Consultant Expenses**  
April 30, 2016

**Fiscal Retainer Contracts**

Consultant	Description	Current Month	Paid to date	Budget/Contract Amount	Percent of year (83%)
Best Best, & Krieger**	Task orders		76,039	130,000	58.49%
Solutions by BG, Inc.	Task orders	10,032	106,236	124,636	85.24%
Downey Brand LLP**	Task orders	3,091	13,044	25,000	52.18%

**Project Specific Contracts**

Consultant	Description	Current Month	Paid to date	Budget/Contract Amount	Percent of Contract Amount
AECOM	ERP	1,743	75,700	74,720	101.31%

**Elk Grove Water District  
Major Capital Improvement Project  
Budget vs Actuals  
March 31, 2016**

<b>Capital Project</b>	<b>Total Project Budget</b>	<b>Expenditures to Date *</b>	<b>Percent Spent</b>
Service Line Replacements	\$450,000	\$178,580	39.68%
Colton Ave./Orton St. Water Main	415,000	316,167	76.18%
Railroad Corridor Water Line	164,000	181,084	110.42%
Hampton Road WTP Refurbishment	1,346,000	1,107,363	82.27%
VFD's - Booster Pumps Railroad Street WTF	134,000	63,064	47.06%
SCADA Improvements	175,000	181,419	103.67%
Business Center/CSD Bldg. Water Main Looping	175,000	16,352	9.34%
Truck Replacements	120,000	62,255	51.88%
Administration Building Improvements	50,000	43,221	86.44%
RRWTF Modular Meeting Room & IT Center	125,000	1,727	1.38%
Railroad Street WTF Parking Lot Improvements	455,375	451,693	99.19%
<b>Sub-Total</b>	<b>\$3,609,375</b>	<b>\$2,602,925</b>	<b>72.12%</b>

\*Includes \$226,194 of capitalized labor in FY 2015-16



May 25, 2016

TO: Chairman and Directors of the Florin Resource Conservation District  
FROM: Stefani Phillips, Board Secretary  
SUBJECT: **COMMITTEE MEETINGS**

---

### **RECOMMENDATION**

It is recommended that the Board accept the minutes of the Special Meeting of the Infrastructure Committee held on April 21, 2016 and the Finance Committee meeting held on May 11, 2016.

### **Summary**

The Board has requested a monthly summary of committee meetings. Two committee meetings were held in the months of April and May 2016. The committee meeting minutes are attached.

### **DISCUSSION**

#### **Background**

At the Regular Board Meeting held on May 27, 2015, the FRCD Board of Directors determined that the committee meeting minutes will be brought to the FRCD Regular Board Meeting and placed under agenda item Committee Meetings. The agenda item Committee Meetings, were placed after Consent Calendar for approval. This item may be moved within the agenda, if necessary, by direction from Chairman Chuck Dawson. The committee meeting minutes shall be accepted by the FRCD Board of Directors.

#### **Present Situation**

The following committee meetings were held in the months of April and May 2016:

- a. Special Meeting of the Infrastructure Committee Minutes – April 21, 2016
- b. Meeting of the Finance Committee Minutes – May 11, 2016

The committee meeting minutes listed above are attached.

### **FINANCIAL SUMMARY**

There is no financial impact associated with this item at this time.

May 25, 2016

**COMMITTEE MEETINGS**

Page 2

---

Respectfully Submitted,



STEFANI PHILLIPS,  
BOARD SECRETARY

**Minutes of the Special Meeting of the Infrastructure Committee  
of the  
Florin Resource Conservation District Board of Directors**

**Wednesday, April 21, 2016**

**Attendance:**

Committee Members: Tom Nelson, Vice Chairman  
                          Bob Gray, Director  
                          Lisa Medina, Associate  
Staff:                  Mark J. Madison, General Manager  
                          Stefani Phillips, Board Secretary  
                          Bruce Kamilos, Assistant General Manager  
                          Jim Malberg, Finance Manager  
                          Travis Franklin, GIS Technician I  
Public:                  None

This was a posted meeting and no members of the public were present.

**1. Draft 2017-2021 Capital Improvement Program**

Bruce Kamilos, Assistant General Manager took the lead in presenting the Draft 2017-2021 Capital Improvement Program (CIP) to the members of the Infrastructure Committee.

Mr. Kamilos highlighted the notable changes between the proposed 2017-21 CIP and the current 2016-20 CIP:

- An “Expenditure History & Revision” table has been added on projects that span over several years. This table will track total expenditures against a project.
- The schedule for the “Service Line Replacements” project has been revised to span from two years to four years.
- The “8-inch Water Line Replacement Waterman Rd.” project has been eliminated.
- The “Pumped-to-Waste Infrastructure – Deep Wells” project has been eliminated.
- The “Hydropneumatic Tanks Refurbishments project has been eliminated.
- The “Well 8 Pump Conversion” project has been replaced by the “Well 8 Pumps Replacement/VFD” project.
- The “Automatic Meter Infrastructure (AMI)” project had be eliminated.

Mark Madison, General Manager, inquired if the District had investigated whether or not sand is being bumped at startup. Mr. Kamilos responded stating there was no sand found at pump startup. A discussion followed regarding sand pumped from deep wells.

Mr. Madison inquired what Mr. Kamilos thoughts were on adding a dump structure with Variable Frequency Drive (VFD) at the Hydropneumatic Tanks. Mr. Kamilos responded stating that would not be a good idea because it would still cause a hammer affect. A discussion about the Hydropneumatic Tanks occurred.

Tom Nelson, Vice-Chairman, commented if a note could be added to the projects that have been eliminated on the final version of the CIP. Mr. Kamilos responded that he will include the notes on the staff report vs. the CIP because he would like to keep the CIP clean.

Bob Gray, Director, inquired if Well 8 will be submersible. Mr. Kamilos responded stating yes, Well 8 capacity will be derated.

Mr. Gray inquired how arsenic is disposed. Mr. Kamilos responded stating it gets oxidized and taken out of solution and filtered by the media. The media gets backwashed into the backwash tank where it gets settled out, including the arsenic, and the sludge is discharged into a sanitary sewer to Sacramento Regional. A discussion regarding Hampton WTP Improvements and the arsenic levels occurred.

Mr. Gray inquired how the District is going to transmit the supervisory control and data acquisition (SCADA) data. Mr. Kamilos responded that he wasn't sure at the moment.

Lisa Medina, Associate Director, commented that the mileage for the Truck Replacement project is so low. Mr. Kamilos responded stating that the mileage should be considered as "hard miles" and there is a lot of wear and tear on the vehicles.

Mr. Gray made a comment during the Security Infrastructure discussion that motion sensor capabilities on the sensors is degraded highly in rain and fog. He also stated that the camera will not detect anything in those types of conditions.

Mr. Kamilos asked the committee if the District should keep the District's Administration Building Improvements in the CIP. The Infrastructure Committee agreed to keep it in the CIP. Mr. Madison inquired if the District should set aside approximately \$30,000 to have an architect come in and provide improvement concepts. Mr. Nelson responded stating that a basic discussion on the improvements for the District's Administration Building should occur first before an architect comes in. Mr. Gray commented that if the District would like to build, the District will need more space. The committee agreed to set aside \$30,000.

A discussion occurred about the change of funding source for the Well 1D Gate Improvement project. Mr. Kamilos stated that he will change the funding source to Capital Repair and Replacement (CRR) funds.

Mr. Kamilos made a comment that \$140,000 was dipped into during the Fiscal Year 2015-16 time period for unforeseen CIP's approved by the Board.

Mr. Kamilos will bring back a cleaned up version of the CIP to the next Infrastructure Committee meeting.

Adjourn to the next Infrastructure Committee Meeting on Wednesday, May 11, 2016 at 5:00PM.

Respectfully submitted,

*Stefani Phillips*

Stefani Phillips, Secretary

SP/CR

**Minutes of the Finance Committee  
of the  
Florin Resource Conservation District Board of Directors**

**Wednesday, May 11, 2016**

**Attendance:**

Committee Members: Tom Nelson, Vice Chairman  
                          Bob Gray, Director  
                          Elliot Mulberg, Director  
                          Jeanne Sabin, Director  
                          Mike Schmitz, Associate

Staff: Mark J. Madison, General Manager  
          Stefani Phillips, Board Secretary  
          Bruce Kamilos, Assistant General Manager  
          Jim Malberg, Finance Manager  
          Donella Murillo, Finance Supervisor

Public: None

This was a posted meeting and no members of the public were present.

**1. Draft Fiscal Year 2016-17 Elk Grove Water District Operating Budget**

Mark Madison, General Manager, kicked off the meeting and provided background of the budget process.

Jim Malberg, Finance Manager, provided the Board an updated copy of the budget worksheet. He stated that three changes were made to the worksheet:

- 1) Allocation of the 90/10 split of the General Manager's salary
- 2) Election costs
- 3) Corrected the double entry of permit fees

Mr. Malberg provided an overview of the proposed budget to the Board.

Bob Gray, Director, commented that consumption may rise due to the Governor's new order therefore increasing the District's revenues. Mr. Malberg responded stating that the 3.5% revenue adjustment has been built in but the consumption estimates are based on calendar 2015 figures with no change at all.

Staff recommends the 3.5% rate increase and next year will be up for discussion.

Mr. Malberg commented that he is still working on the figures for fire service and will know more information by the next Finance Committee meeting on June 8, 2016.

A discussion occurred regarding the transparency of the General Manager's salary. Mr. Gray commented that he would like to see the General Manager's salary all in one category versus having it split between the Florin Resource Conservation District (FRCD) and Elk Grove Water District (EGWD). Mr. Madison responded, "Yes, we can change that."

Mr. Malberg stated the new Other Post-Employment Benefits (OPEB) actuarial rules increased annual required contribution by 63%. A discussion regarding OPEB occurred.

Mr. Malberg commented that he would like to change the name of the line item "telephone" to "communication."

Staff will double check the water conservation budget, should be \$30,000. Tom Nelson, Vice-Chairman, made a comment that we need to budget just for conservation.

There was a discussion regarding the conservation program and efforts for the future.

Staff will verify the amount budgeted for telephone/communications and bring back to the next Finance Committee meeting on June 8, 2016.

A discussion regarding bank charges and charging a flat fee for credit card use occurred.

Mr. Malberg will find out what the debt service true number will look like and report back to the Board.

Mr. Madison asked Mr. Malberg if he could provide a graph or chart of actual savings from the bond refinancing. Mr. Malberg responded, yes.

Mr. Malberg will bring back the chronology for the election reserve at the next Finance Committee meeting on June 8, 2016. A discussion regarding this continued.

A discussion regarding increasing the employee phone stipend occurred. Staff will provide examples of phone/data packages at the next Finance Committee meeting on June 8, 2016.

Mr. Madison commented that he would like the Board to adopt a schedule of rates and fees every year at the same time the budget is proposed.

Adjourn to the next Finance Committee Meeting on Wednesday, June 8, 2016.

Respectfully submitted,

*Stefani Phillips*

Stefani Phillips, Secretary

SP/CR

May 25, 2016

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Mark J. Madison, General Manager

SUBJECT: **AMENDMENT TO WATER SHORTAGE CONTINGENCY PLAN AND IMPLEMENTATION OF NORMAL WATER SUPPLY STAGE**

### **RECOMMENDATION**

It is recommended that the Board of Directors of the Florin Resource Conservation District adopt Ordinance No. 05.25.16.01 amending the Water Shortage Contingency Plan's Normal Water Supply Stage and order implementation of the amended Normal Water Supply Stage.

### **Summary**

On May 9, 2016, Governor Brown issued an Executive Order adjusting water conservation regulations through the end of January 2017. On May 18, 2018, the State Water Resources Control Board (Water Board) adopted emergency regulations in compliance with the Governor's Order and for continued statewide urban water conservation, revising certain requirements of urban water suppliers. These new requirements will go into effect on June 1, 2016.

As these new requirements relate to the Elk Grove Water District (District), water waste will continue to be prohibited but no conservation is required. For this reason, staff recommends that the District's Normal Water Stage be amended to remove all restrictions on watering dates and times, and to conform to the water waste restrictions as adopted by the Water Board.

### **DISCUSSION**

#### **Background**

On June 21, 2006, the FRCD Board adopted a Water Shortage Contingency Plan by Ordinance No. 06.21.06.01. The Plan was updated on April 28, 2010 by adoption of Ordinance 04.28.10.01 as part of a regional cooperative effort to adopt plans consistent with other agencies belonging to the Regional Water Authority.

**AMENDMENT TO WATER SHORTAGE CONTINGENCY PLAN AND  
IMPLEMENTATION OF NORMAL WATER SUPPLY STAGE**

---

Page 2

On April 25, 2014, Governor Brown issued an Executive Order to amplify State drought actions. Pursuant to that order, and corresponding requirements adopted by the Water Board, the District amended and implemented Stage 1 – Water Alert which contains enhanced water use restrictions and conservation requirements.

On April 1, 2015, Governor Brown issued another Executive Order calling for expedited actions by State agencies to increase conservation measures further. This order was followed by a new set of regulations adopted by the Water Board on May 5, 2015, intended to achieve a 25% water use reduction throughout the State.

Those new water regulations, adopted by the Water Board, imposed mandated water use reductions on all water agencies, including the District. These mandatory reductions also varied depending on the level of water use by the agency and the District's reduction was established at 28% compared to our usage in 2013. These requirements went into effect beginning May 18, 2015.

To achieve the mandated water use reductions, the District amended the Water Shortage Contingency Plan to include Stage 2 Plus which imposed further restrictions on water use and this also went into effect on May 18, 2015. Since that time, the District has achieved a cumulative savings of 35.04% compared to 2013 and this is shown on Attachment 1 to this report.

Present Situation

On May 9, 2016, Governor Brown issued an Executive Order adjusting water conservation regulations through the end of January 2017. On May 18, 2016, the Water Board adopted emergency regulations in compliance with the Governor's Order and for continued statewide urban water conservation, revising certain requirements of urban water suppliers and these new requirements will go into effect on June 1, 2016.

The new regulations adopted by the Water Board require water agencies to self-certify their ability to sustain adequate water supplies for another three years of drought. Based on the requirements in the regulations, the District is able to achieve compliance with a zero percent conservation requirement for the duration of this order.

Although no conservation is required, potable water waste must permanently be prohibited. Specifically, the following practices of water waste are identified in the Governor's Executive Order:

- Hosing off sidewalks, driveways, and other hardscapes;
- Washing automobiles with hoses not equipped with a shut-off nozzle;
- Using non-recirculated water in a fountain or other decorative water feature;



**AMENDMENT TO WATER SHORTAGE CONTINGENCY PLAN AND  
IMPLEMENTATION OF NORMAL WATER SUPPLY STAGE**

---

Page 3

- Watering lawns in a manner that causes runoff, or within 48 hours after measurable precipitation;
- Irrigating ornamental turf on public street medians.

The District's most recently adopted Water Shortage Contingency Plan - Normal Water Supply Stage is attached to this report as Attachment 2. That stage includes restrictions on watering days and times which, in staff's opinion, should not be included during normal supply conditions.

Rather, staff proposes the amended Water Shortage Contingency Plan – Normal Water Supply Stage, as Exhibit A to Ordinance No. 05.25.16.01, which does not include the watering day and time restrictions. This proposed stage reflects a concept that, during normal supply conditions, customers should not be restricted in their water use, but they should be prohibited from wasting water. In that regard, the proposed stage has also been amended to incorporate the specific water waste prohibitions as listed above.

It should be noted that although the proposed Water Shortage Contingency Plan - Normal Water Supply Stage eliminates water use restrictions, water waste prohibitions are still incorporated and these are subject to enforcement and the penalties prescribed. It is also proposed that if the Board approves this proposed stage, and its implementation, the infraction levels of all customers will be reset to zero beginning June 1, 2016.

**STRATEGIC PLAN CONFORMITY**

Adoption of Ordinance No. 05.25.16.01 is keeping with the 2012-2017 Strategic Plan goals for Regulatory Compliance.

**FINANCIAL SUMMARY**

There is no financial impact related to this item at this time.

Respectfully Submitted,



MARK J. MADISON  
GENERAL MANAGER

Attachments

Elk Grove Water District Water Usage

		Monthly Production (gallons)											
		January	February	March	April	May	June	July	August	September	October	November	December
2013	GW (SA1)	68,254,916 *	81,368,191 *	100,542,522	121,613,523	172,623,839	196,557,137	221,335,388	205,830,850	166,997,536	145,352,530	107,186,459	80,494,167
	Purchased (SA2)	33,769,956	30,929,052	36,942,972	51,911,200	87,470,372	100,709,224	112,128,192	110,885,764	105,417,136	81,665,892	71,505,060	62,165,532
	Total	102,024,872	112,297,243	137,485,494	173,524,723	260,094,211	297,266,361	333,463,580	316,716,614	272,414,672	227,018,422	178,691,519	142,659,699
2015	GW (SA1)	62,684,574	57,365,413	86,989,437	88,984,850	106,158,389	114,555,359	127,038,586	125,052,315	117,883,208	99,385,733	64,079,715	57,508,787
	Purchased (SA2)	28,648,400	30,029,208	36,876,400	51,626,212	52,734,000	62,368,240	71,273,928	75,055,068	70,123,504	63,526,892	46,873,420	34,399,772
	Total	91,332,974	87,394,621	123,865,837	140,611,062	158,892,389	176,923,599	198,312,514	200,107,383	188,006,712	162,912,625	110,953,135	91,908,559
2016	GW (SA1)	54,579,679	53,455,693	56,776,025	80,317,655								
	Purchased (SA2)	27,516,676	26,507,624	27,531,636	34,054,196								
	Total	82,096,355	79,963,317	84,307,661	114,371,851								
	% Reduction	19.53%	28.79%	38.68%	34.09%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	% Cumulative Reduction	35.24%	34.87%	35.12%	35.04%	40.48%	40.51%	39.27%	37.42%	35.98%	36.19%	36.14%	

\*Notes

2013 January and February production numbers do not match actually recorded production because of an open intertie delivering water to SA2. Information below is further details.

SA1 = Service Area 1, SA2 = Service Area 2. SA1 is all groundwater (GW) production. SA2 is all purchased water from SCWA.

Actual Recorded Prod. (Jan. 2013) - Service Area 1 79,361,342 gallons (Includes water delivered to SA2 due to open intertie. Intertie closed end of Feb. 2013)

Actual Recorded Prod. (Feb. 2013) - Service Area 1 94,608,406 gallons (Includes water delivered to SA2 due to open intertie. Intertie closed end of Feb. 2013)

To determine estimate of Feb. 2013 production delivered to Service Area 1, use multiplier from March data which is seasonally similar.)

Service Area 1 Multiplier = 1.39 (calculated from March 2013 Prod. Data/March 2014 Prod. Data)

Calc'd Feb. 2013 Prod. = Feb. 2014 Prod. Data x 1.39 = 79,737,924

To determine estimate of Jan. 2013 production, use prorated amount from Feb. 2013 data. (This method due to Jan. 2014 being unseasonably hot.)

Calc'd Jan. 2013 Prod. = (Feb. 2013 Prod. Data Calc'd / Feb. 2013 Prod. Data Actual) x Jan. 2013 Prod. Data Actual = 68,254,916

Service Area 2

	# Accts	CCF	Gallons
2016 Jan	4,269	36,787	27,516,676
Feb	4,268	35,438	26,507,624
Mar	4,269	36,807	27,531,636
Apr	4,269	45,527	34,054,196
May		0	0
Jun		0	0
Jul		0	0
Aug		0	0
Sep		0	0
Oct		0	0
Nov		0	0
Dec		0	0

## Attachment 2

### ELK GROVE WATER DISTRICT

#### Water Shortage Contingency Plan – Stages of Action

**NORMAL WATER SUPPLY** – No shortage exists. No extraordinary water conservation regulations exist and customers are requested to observe normal efficiency measures as required by local ordinances.

- **Odd/Even irrigation for residential & commercial**
  - Addresses ending in an odd number (1,3,5,7,9) irrigate on Tuesday, Thursday and Saturday
  - Addresses ending in an even number (0,2,4,6,8) irrigate on Wednesday, Friday and Sunday
  - No irrigation on Mondays
- **Irrigation hours**- No landscaping irrigation shall be permitted between the hours of noon and 6:00 pm
- **Runoff** – Irrigation shall not be allowed to run off to adjoining property to the roadside ditch or gutter
- **Hoses**- Open hoses are not permitted. Automatic shutoff nozzles are required
- **Washing driveways and other paved areas** – Use of water to clean sidewalks, driveways or patios is not permitted. Washing of streets and commercial parking lots with a hose is not permitted, except to alleviate immediate fire or sanitation hazards
- **Water Leaks** – Leaking pipes, fixtures or sprinklers shall be repaired promptly
- **Serving of Water** – Restaurants shall serve water to customers only upon special request
- **Pools, ponds and fountains** – All swimming pools, ponds and fountains shall be equipped with recirculating pumps

#### PENALTIES FOR WATER WASTING

- First violation – Customer is notified of violation
- Second violation – Written warning sent to customer
- Subsequent violation - \$100 fine

**ORDINANCE NO. 05.25.16.01**  
**AN ORDINANCE OF THE BOARD OF DIRECTORS OF THE FLORIN RESOURCE  
CONSERVATION DISTRICT ADOPTING ORDINANCE NO. 05.25.16.01 AMENDING  
THE WATER SHORTAGE CONTINGENCY PLAN'S NORMAL WATER SUPPLY  
STAGE AND ORDER IMPLEMENTATION OF THE AMENDED NORMAL SUPPLY  
STAGE**

**WHEREAS**, on June 21, 2006, the Florin Resource Conservation District (the "District") adopted a Water Shortage Contingency Plan by Ordinance No. 06.21.06.01; and

**WHEREAS**, on April 28, 2010, the District adopted an updated Water Shortage Contingency Plan by Ordinance No. 04.28.10.01 consistent with plans of other Regional Water Authority members; and

**WHEREAS**, on January 17, 2014, Governor Brown declared a State of Emergency due to severe drought and on April 25, 2014, Governor Brown adopted an Executive Order to Redouble State Drought Actions; and

**WHEREAS**, on July 15, 2014, the State Water Resources Control Board adopted Resolution No. 2014-0038 approving emergency regulations for statewide water conservation including specific requirements for urban water suppliers; and

**WHEREAS**, the District Board ordered implementation of Stage 1 – Water Alert of the Water Shortage Contingency Plan and on July 23, 2014, adopted Ordinance No. 07.23.14.02 Amending the Contingency Plan's Outdoor Irrigation Schedule; and

**WHEREAS**, on May 5, 2015, the State Water Resources Control Board adopted regulations intended to achieve a 25% water use reduction throughout the State and imposing mandated water use reductions on all water agencies effective June 1, 2015, including the District; and

**WHEREAS**, the District's reduction was established at 28% compared to its usage in 2013; and

**WHEREAS**, to achieve the mandated water use reductions, the District amended the Water Shortage Contingency Plan to include Stage 2 Plus which imposed further restrictions on water use, effective May 18, 2015; and

**WHEREAS**, since May 18, 2015, the District has achieved a cumulative savings of 35.04% compared to 2013; and

**WHEREAS**, on May 9, 2016, Governor Brown issued an Executive Order adjusting water conservation regulations through the end of January 2017, and on May 18, 2016, the State Water Resources Control Board adopted emergency regulations in compliance with the Governor's Order and for continued statewide urban water conservation, revising certain requirements of urban water suppliers, effective June 1, 2016; and

**WHEREAS**, the new regulations adopted by the State Water Resources Control Board require water agencies to self-certify their ability to sustain adequate water supplies for another three years of drought; and

**WHEREAS**, based on the requirements of the new regulations, the District can achieve compliance with a zero percent conservation requirement for the duration of the Executive Order; and

**WHEREAS**, the District wishes to amend the Water Shortage Contingency Plan – Normal Water Supply Stage to eliminate restrictions on watering days and times while prohibiting waste including the specific practices of water waste identified in the Executive Order.

**NOW, THEREFORE**, the Board of Directors of the Florin Resource Conservation District hereby determines and ordains as follows:

Section 1. Recitals. The above recitals are true and correct and incorporated herein.

Section 2. Amendment. The Water Shortage Contingency Plan – Normal Water Supply Stage is hereby amended as set forth in the attached Exhibit “A.”

Section 3. Ordinance Effective Date. This ordinance shall take effect upon its adoption.

**APPROVED AND ADOPTED** by the Board of Directors of the Florin Resource Conservation District on this 25th day of May, 2016.

AYES:  
NOES:  
ABSTAIN:  
ABSENT:

\_\_\_\_\_  
Chuck Dawson  
Chairman of the Board of Directors

Attest: \_\_\_\_\_  
Stefani Phillips  
Secretary to the Board of Directors

## Exhibit A

### ELK GROVE WATER DISTRICT

#### Water Shortage Contingency Plan – Stages of Action

***NORMAL WATER SUPPLY*** – No shortage exists. No extraordinary water conservation regulations exist and customers are prohibited from the following practices that waste potable water:

- **Runoff** – Irrigation shall not be allowed to run off to adjoining properties or to the roadside ditch or gutter.
- **Watering after a Rainfall Event** – No irrigation shall be allowed for 48 hours after a measurable rainfall event. A measurable rainfall event shall be defined as an event having 0.10 inches of rain in one day.
- **Hoses** - Open hoses are not permitted. Automatic shutoff nozzles are required.
- **Washing driveways and other paved areas** – Use of water to clean sidewalks, driveways, patios, or other hardscapes is not permitted. Washing of streets and commercial parking lots with a hose is not permitted, except to alleviate immediate fire or sanitation hazards.
- **Water Leaks** – Leaking pipes, fixtures or sprinklers shall be repaired promptly.
- **Serving of Water** – Restaurants shall serve water to customers only upon special request.
- **Pools, ponds and fountains** – All swimming pools, ponds, fountains, or other decorative water feature shall use recirculated water.

#### **PENALTIES FOR WATER WASTING**

- First violation – Customer is notified of violation
- Second violation – Written warning sent to customer
- Subsequent violation - \$100 fine

May 25, 2016

TO: Chairman and Directors of the Florin Resource Conservation District  
FROM: Mark J. Madison, General Manager  
SUBJECT: **FLORIN RESOURCE CONSERVATION DISTRICT CONSERVATION  
ACTIVITIES REPORT**

### **RECOMMENDATION**

This information is provided for information only. No action by the Board is requested at this time.

### **Summary**

The Board has requested a monthly summary of Florin Resource Conservation District (FRCD) conservation activities performed by the Board and Staff.

### **DISCUSSION**

#### **Background**

The Conservation Committee convened on April 6, 2016, to discuss the Needs Assessment and consider its findings and recommendations. There were five key recommendations made and these were presented to the Board on April 27, 2016.

At that Board meeting, the General Manager was directed to focus on issues related to the FRCD becoming the groundwater sustainability agency (GSA) for the FRCD jurisdictional area. The General Manager was also directed to contact Supervisor Don Notolli and the Building Industry Association (BIA) to discuss the potential for the FRCD to engage in various mitigation activities required by developers in the course of constructing new developments

#### **Present Situation**

On April 30, the FRCD sponsored and participated in the Eco-Landscape Watersmart Workshop held at the Elk Grove City Hall. There were approximately 40 participants in this event and education was provided on smart irrigation practices, drought tolerant landscaping, and invasive plants and species.

As of the preparation of this report, the General Manager has not yet made contact with either Supervisor Notolli or the BIA. Considerable efforts have been devoted, however,

**FLORIN RESOURCE CONSERVATION DISTRICT CONSERVATION ACTIVITIES –  
APRIL 2016**

---

Page 2

to the issues involving the Sustainable Groundwater Management Act and the potential formation of a GSA for the FRCD's jurisdictional area.

Staff attended a Sacramento Central Groundwater Authority (SCGA) Board meeting where staff expressed concerns about governance and financing. Staff and Director Nelson also attended a subsequent SCGA Subcommittee meeting where our proposed governance requests, and the FRCD GSA concept was discussed.

That discussion provoked considerable objections by various subcommittee members and the subcommittee has been clear that it will not support our proposal for a new Joint Powers Agreement or certain other requests at this time. The subcommittee does support our request that the FRCD Board should have the authority to assign a District employee as the representative serving on the SCGA Board.

On June 8, 2016, it is expected that our request to assign a District employee to serve on SCGA will be discussed and potentially acted on by the SCGA Board.

Based on the discussion at the April 27, 2016 Board meeting, it was clear that the Board is anxious to deliberate on the matter of the FRCD filing to become a GSA. For this reason, it is recommended that the FRCD hold a Special Board meeting on the evening of June 8, 2016 to consider the question and provide guidance to the General Manager.

**STRATEGIC PLAN CONFORMITY**

Participation in regional conservation outreach is in conformity with the District's conservation and cooperative program goals of the 2012-2017 Strategic Plan.

**FINANCIAL SUMMARY**

There is no direct financial impact associated with this report.

Respectfully submitted,



MARK J. MADISON  
GENERAL MANAGER



May 25, 2016

TO: Chairman and Directors of the Florin Resource Conservation District  
FROM: Mark J. Madison, General Manager  
SUBJECT: **ELK GROVE WATER DISTRICT OPERATIONS REPORT – APRIL 2016**

### **RECOMMENDATION**

This item is presented for information only. No action by the Board is proposed at this time.

### **Summary**

The Elk Grove Water District (EGWD) Operations Report is a standing item on the regular board meeting agenda.

All regulatory requirements were met for the month of April. Other notable events are described below.

### **DISCUSSION**

#### **Background**

Every month, staff presents an update of the activities related to the operations of the District. Included for the Board's review is the EGWD's April 2016 Operations Report.

#### **Present Situation**

The EGWD April 2016 Operations Report highlights are as follows:

- **Operations Activities Summary** – Notable items in the activities summary are that the District hung 302 door hangers for past due balances which resulted in 35 shutoffs.
- **Production** – Well 11D was offline for the entire month for a scheduled rehabilitation. Well 13 also remained offline while staff is working to reduce the arsenic levels in that well. The Combined Total Service Area 1 production graph on page 13 shows that production during the month of April decreased compared

**ELK GROVE WATER DISTRICT OPERATIONS REPORT – APRIL 2016**

---

Page 2

to April 2015 and is also 33.96 percent less than what was produced in 2013. The production decrease remains due to the drought and customer water use reductions. The Total Demand/Production for both service areas on page 14 shows that customer use during the month of April, compared to April 2013, was down by 34.09 percent.

- **Static and Pumping Level Graphs** – The second quarter soundings are shown and indicate the static water levels in deeper zones have slightly improved compared to 2013.
- **Treatment (Compliance Reporting)** – All samples taken during the month are in compliance with all regulatory permit requirements. No exceedances of any maximum contaminant levels were found and all water supplied to the District's customers met or exceeded safe drinking water standards.
- **Preventative Maintenance Program** – The tables included in this section of the report also include certain activities completed to date. Below is a list of out-of-ordinary maintenance work completed in April:
  - Well 11D Dino was taken off-line for a scheduled rehabilitation. Staff assisted with equipment and sampling.
  - Staff completed evaluating tag definitions and separating them into different groups. This was done in order to improve the alarm history query tool on SCADA.
  - The Bi-annual clear well storage tank inspections were completed.
- **Backflow Prevention Program 2016** – There were 12 notices issued for the month. From the initial testing notice, 11 devices passed and 1 device failed. After repairs were made, all of the devices passed. There is a total of 1 outstanding device as of this report which will require further investigation.
- **Safety Meetings/Training** – There were 5 safety training sessions conducted for the month. Only 2 safety sessions are required by OSHA standards.
- **Service Line Replacement Map** – The District installed 8 service lines for residential services for the month.
- **Service and Main Leaks Map** – There were no main line leaks and 2 service line leaks reported for the month.

**ELK GROVE WATER DISTRICT OPERATIONS REPORT – APRIL 2016**

---

Page 3

**STRATEGIC PLAN CONFORMITY**

The District's Strategic Plan addresses responsible business practices and the importance of providing the community with safe drinking water. The EGWD Operations Report is a key document for managing the District's distribution and treatment system. The EGWD Operations Report assists the District toward its responsibility of delivering safe drinking water.

**FINANCIAL SUMMARY**

There is no financial impact associated with this report.

Respectfully Submitted,



MARK J. MADISON, P.E.  
GENERAL MANAGER

MJM/ah

# EGWD

## OPERATIONS REPORT

April 2016



Elk  
Grove  
Water  
District



**Elk Grove Water District**  
**Operations Report**

*Table of Contents*

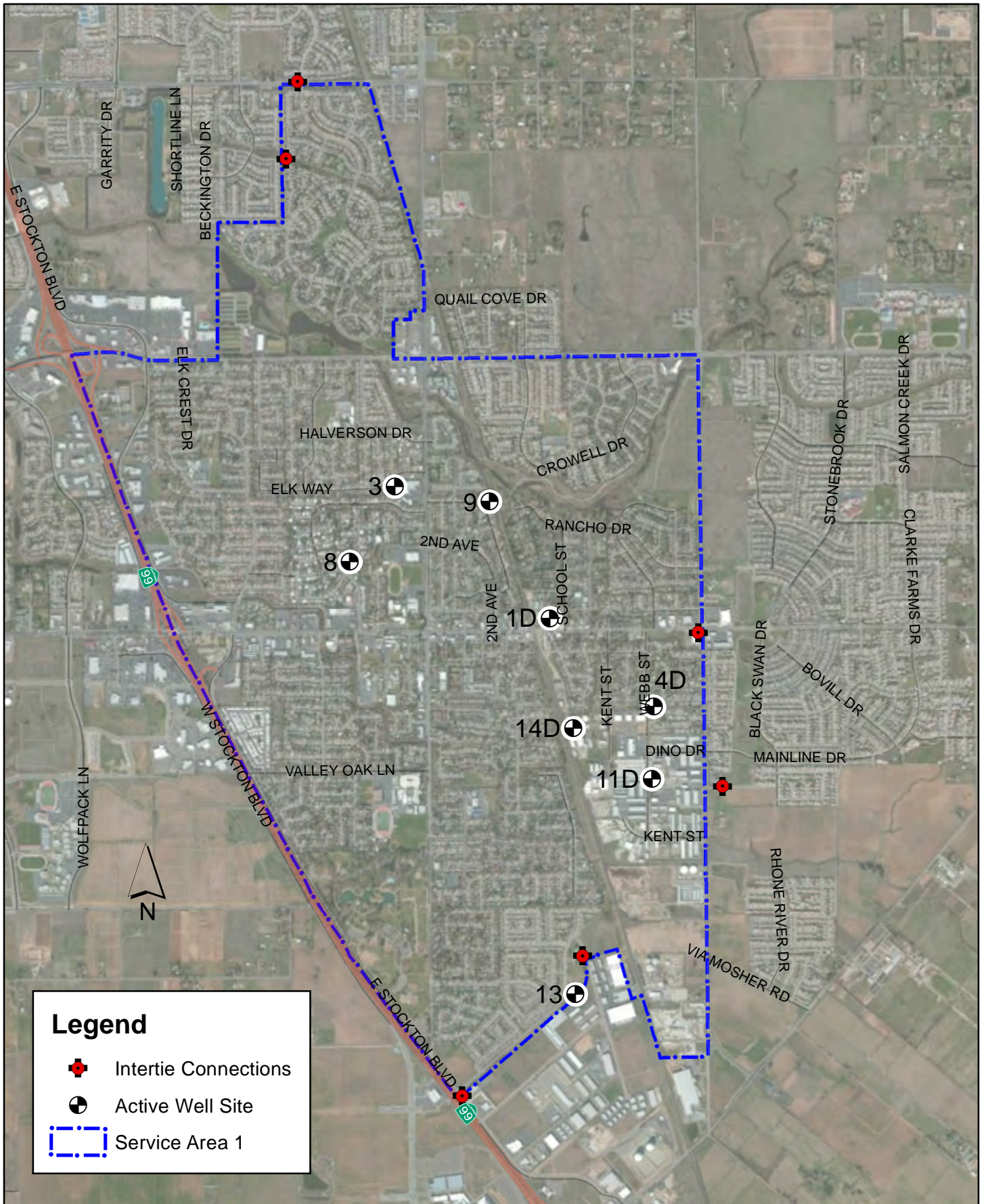
- 1. Operations Activities Summary ..... 3**
- 2. Production**
  - a. Active Well Sites & Intertie Connections Map ..... 4
  - b. Monthly Production Graphs
    - i. Well 1D School Street..... 5*
    - ii. Well 4D Webb Street ..... 6*
    - iii. Well 11D Dino ..... 7*
    - iv. Well 14D Railroad ..... 8*
    - v. Well 3 Mar-Val ..... 9*
    - vi. Well 8 Williamson ..... 10*
    - vii. Well 9 Polhemus ..... 11*
    - viii. Well 13 Hampton ..... 12*
  - c. Combined Total Production ..... 13
  - d. Total Demand/Production ..... 14
- 3. Static and Pumping Level Graphs**
  - a. Well 1D School Street ..... 15
  - b. Well 4D Webb Street ..... 16
  - c. Well 11D Dino ..... 17
  - d. Well 14D Railroad ..... 18
  - e. Well 3 Mar-Val ..... 19
  - f. Well 8 Williamson ..... 20
  - g. Well 9 Polhemus ..... 21
  - h. Well 13 Hampton ..... 22
- 4. Regulatory Compliance**
  - a. Monthly Water Sample Report ..... 23-26
  - b. Monthly Summary of Distribution System Coliform Monitoring (CDPH) ..... 27-28
  - c. Monthly Compliance Report (SRCSD) ..... 29-54
- 5. Preventative Maintenance Program**
  - a. M.C.C. and Lab ..... 55
  - b. Backwash System and Storage Tanks ..... 56
  - c. Booster Pumps ..... 57
  - d. Chlor – Tec System ..... 58
  - e. Filter Vessels ..... 59
  - f. Standby Generator ..... 60
  - g. Well 1D School Street ..... 61
  - h. Well 4D Webb Street ..... 62
  - i. Well 11D Dino ..... 63
  - j. Well 14D Railroad ..... 64
  - k. Well 3 Mar-Val ..... 65
  - l. Well 8 Williamson ..... 66
  - m. Well 9 Polhemus ..... 67
- 6. Backflow Prevention Program 2016 ..... 68**

<b>7. Safety Meetings/Training .....</b>	<b>69</b>
<b>8. Service Line Replacement Map.....</b>	<b>70</b>
<b>9. Service and Main Leaks Map.....</b>	<b>71</b>
<b>10. Sample Station Areas Map .....</b>	<b>72</b>
<b>11. Sample Station Area(s) Pressure Monitoring.....</b>	<b>73-82</b>




# Operations Activities Summary

<b><u>Service Requests:</u></b>	Apr-16		YTD (Since July 1, 2015)	
<b><u>Department</u></b>	<u>Service Request</u>	<u>Hours</u>	<u>Service Request</u>	<u>Hours</u>
<b>Distribution</b>				
Door Hangers	302	16	3798	183.49
Shut offs	35	10	440	66.27
Turn ons	44	9.27	529	87.22
Investigations	21	25.75	336	220.59
USA Locates	157	39.25	1249	312.25
Customer Complaints				
-Pressure	2	1	16	11.75
-Water Quality	2	1	16	12
-Other	0	0	0	0

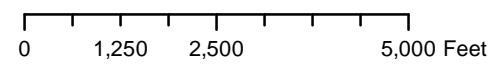
<b><u>Work Orders:</u></b>	Apr-16		YTD (Since July 1, 2015)	
<b><u>Department</u></b>	<u>Work Orders</u>	<u>Hours</u>	<u>Work Orders</u>	<u>Hours</u>
<b>Treatment:</b>				
Preventative Maint.	16	48.5	151	462.5
Corrective Maint.	2	25	25	243
Water Samples	11	43	120	347
<b>Distribution:</b>				
Meters Installed	0	0	2	4.5
Backflow Devices Installed	0	0	10	59
Preventative Maint.				
-Hydrant Flushing Program	0	0	0	0
-Hydrant Maintenance	70	27	535	447.22
-Valve Exercising	119	37	1151	384
-Other	5	43	6	49
Corrective Maint.				
-Leaks	2	15	50	974.75
-Other	33	124.5	245	1167.25
Valve Locates	2	30.5	23	172.5
<b>Utility:</b>				
Service Line Replacement	8	184.75	103	2205.19
Corrective Maint.	0	0	7	362



**Legend**

-  Intertie Connections
-  Active Well Site
-  Service Area 1

Active Well Sites & Intertie Connections



Elk Grove Water District





# Elk Grove Water District

## Monthly Production

Well 1D School -- Apr. 2016

**Selected Month Production**  
330,697 Gallons

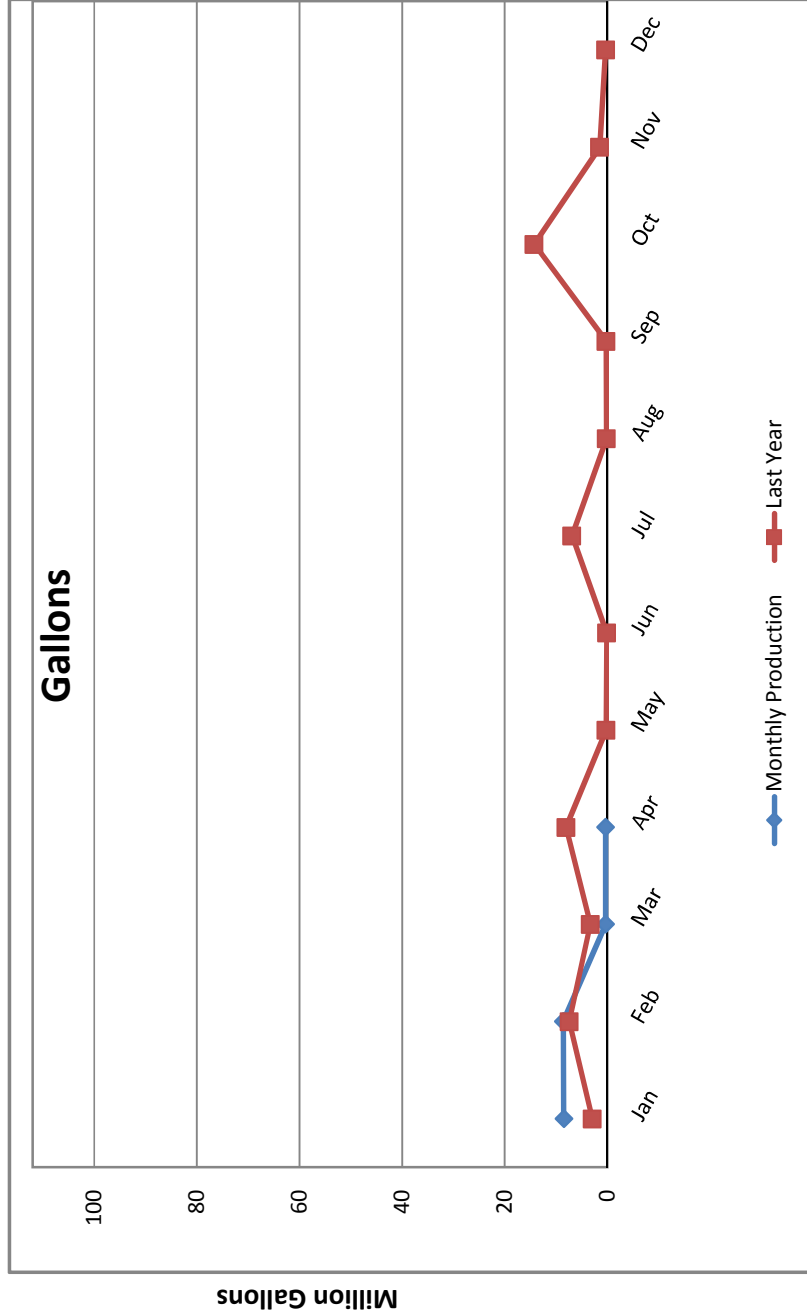
Average GPM:  
1,837

**Motor:**  
Volts: 478  
Volts (Rated): 460  
RPM: 2145  
RPM (Rated): 2115  
Amps A: 172  
Amps A (Rated): 222  
Amps B: 177  
Amps B (Rated): 222  
Amps C: 172  
Amps C (Rated): 222

Motor Temp: 98.6 F  
Hour Meter: 3.00  
KW Hour Total: 640.00

**Chlorine:**  
Dosing: 1.57  
Demand: 0.45  
Residual: 1.12

**Vibration Reading:**  
Base Line: 0.05  
Current: 0.02





# Elk Grove Water District

## Monthly Production

Well 4D Webb -- Apr. 2016

**Selected Month Production**  
56,146,593 Gallons

Average GPM:  
1,703

**Motor:**

Volts: 478  
Volts (Rated): 460  
RPM: 1822  
RPM (Rated): 1775  
Amps A: 177  
Amps A (Rated): 225  
Amps B: 176  
Amps B (Rated): 225  
Amps C: 176  
Amps C (Rated): 225

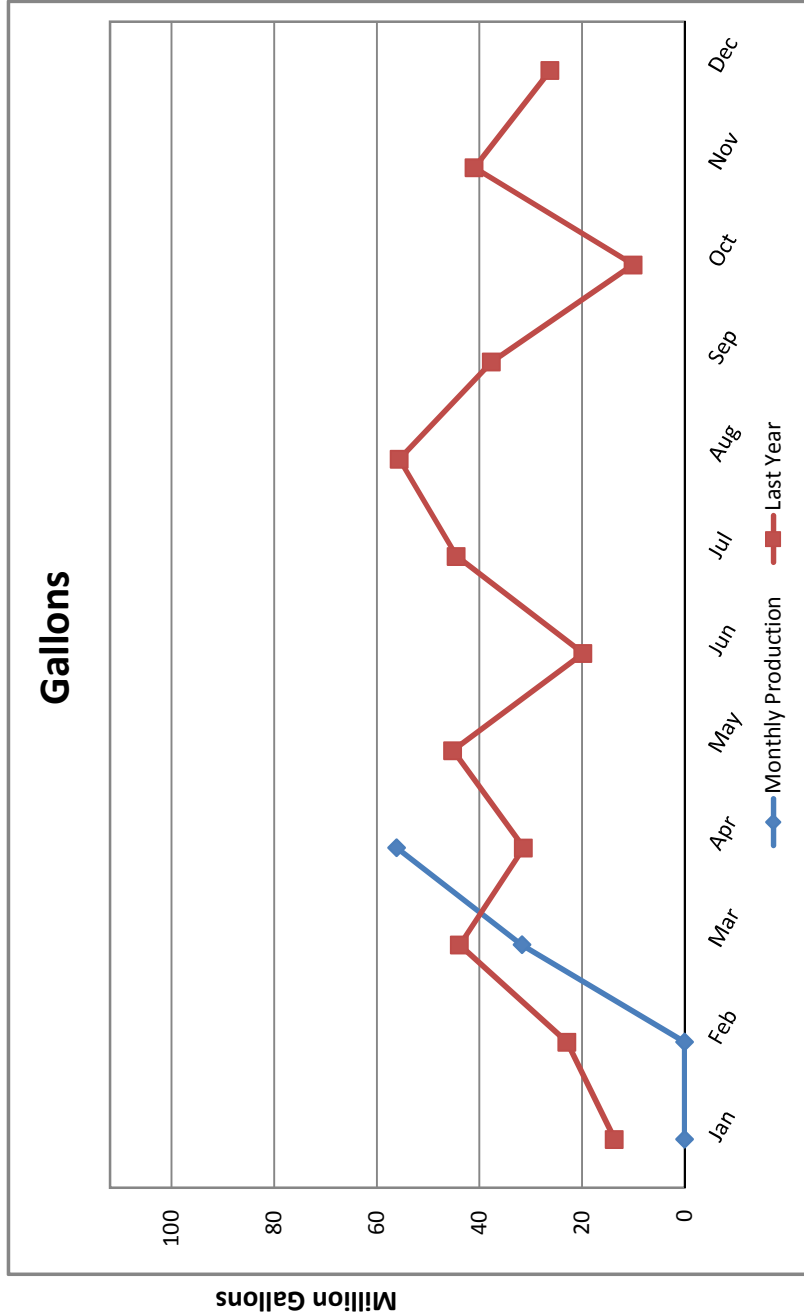
Motor Temp: 122.5 F  
Hour Meter: 549.20  
KW Hour Total: 66,240.00

**Chlorine:**

Dosing: 1.76 mg/L  
Demand: 0.72 mg/L  
Residual: 1.04 mg/L

**Vibration Reading:**

Base Line: 0.05 in/sec  
Current: 0.02 in/sec





## Elk Grove Water District

### Monthly Production

Well 11D Dino -- Apr. 2016  
Well Offline (Rehab.)

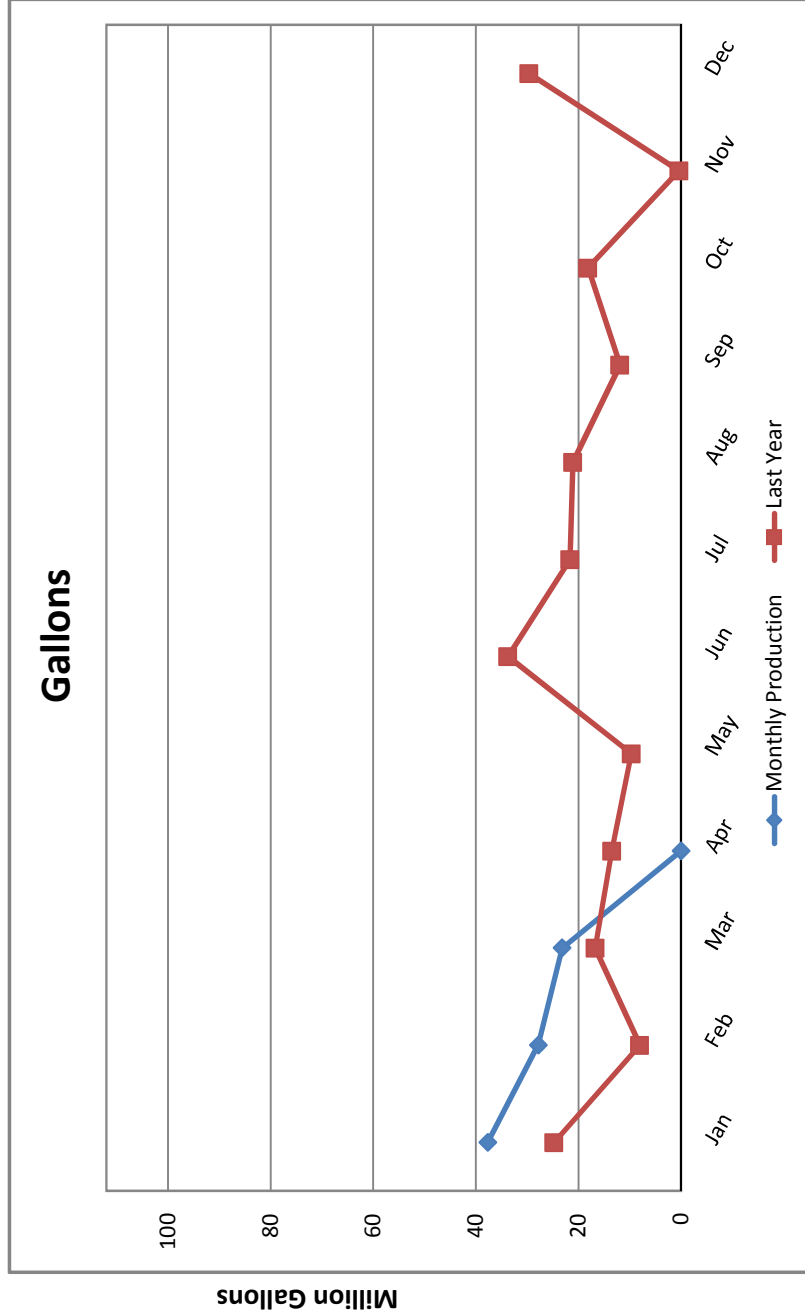
Selected Month Production  
0 Gallons

Average GPM: 0

#### Motor:

Volts: 460  
Volts (Rated): 460  
RPM: 1775  
RPM (Rated): 1775  
Amps A: 225  
Amps A (Rated): 225  
Amps B: 225  
Amps B (Rated): 225  
Amps C: 225  
Amps C (Rated): 225

Motor Temp: F  
Hour Meter:  
KW Hour Total:





# Elk Grove Water District

## Monthly Production

Well 14D Railroad -- Apr. 2016

**Selected Month Production**  
6,356,365 Gallons

Average GPM:  
1,614

**Motor:**

Volts: 475  
Volts (Rated): 460  
RPM: 2092  
RPM (Rated): 1785  
Amps A: 163  
Amps A (Rated): 171  
Amps B: 161  
Amps B (Rated): 171  
Amps C: 158  
Amps C (Rated): 171

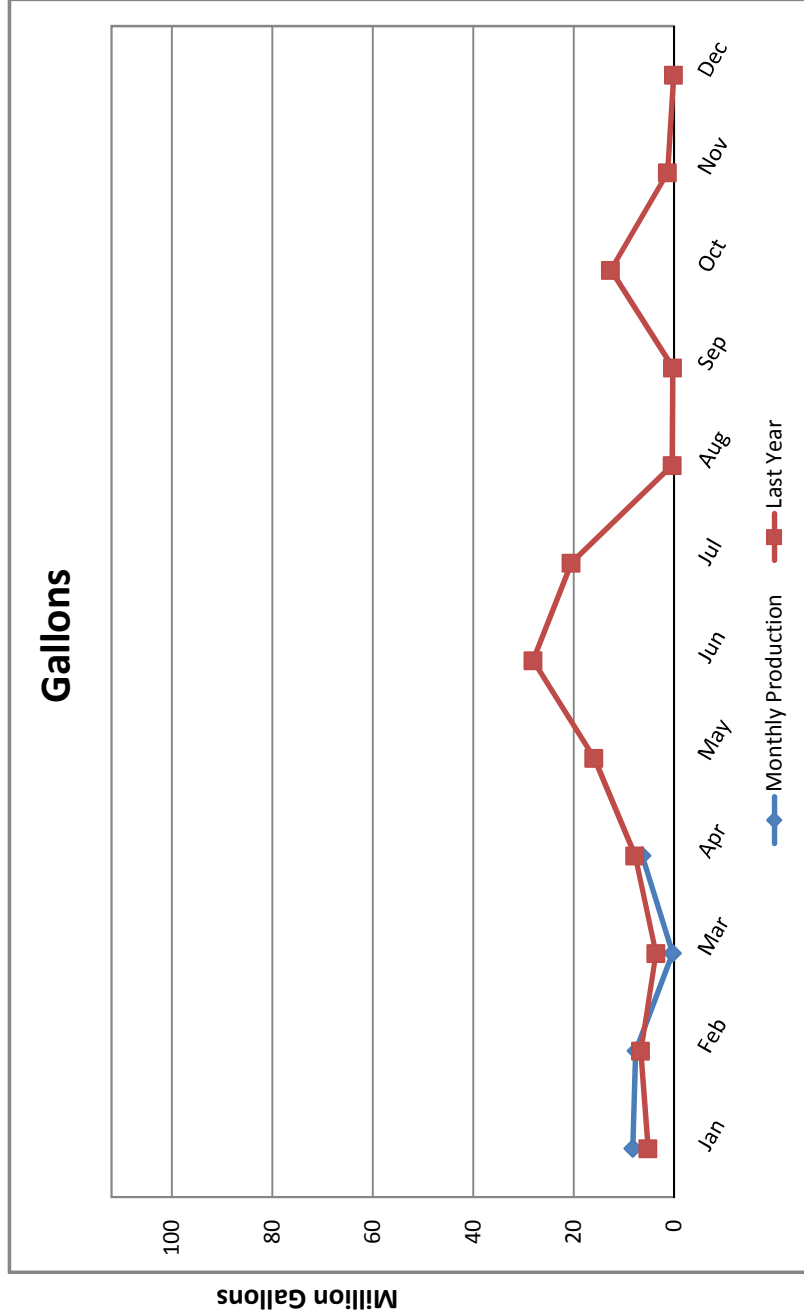
Motor Temp.: 148.8 F  
Hour Meter: 65.60  
KW Hour Total: 54,880.00  
(KWH total is for the entire facility)

**Chlorine:**

Dosing: 1.83 mg/L  
Demand: 0.79 mg/L  
Residual: 1.04 mg/L

**Vibration Reading:**

Base Line: 0.02 in/sec  
Current: 0.06 in/sec





# Elk Grove Water District

## Monthly Production

Well 3 Mar-Val -- Apr. 2016

**Selected Month Production**  
91,000 Gallons

Average GPM: 892

**Motor:**

Volts: 479  
 Volts (Rated): 460  
 RPM: 2014  
 RPM (Rated): 1770  
 Amps A: 88  
 Amps A (Rated): 88  
 Amps B: 87  
 Amps B (Rated): 88  
 Amps C: 88  
 Amps C (Rated): 88

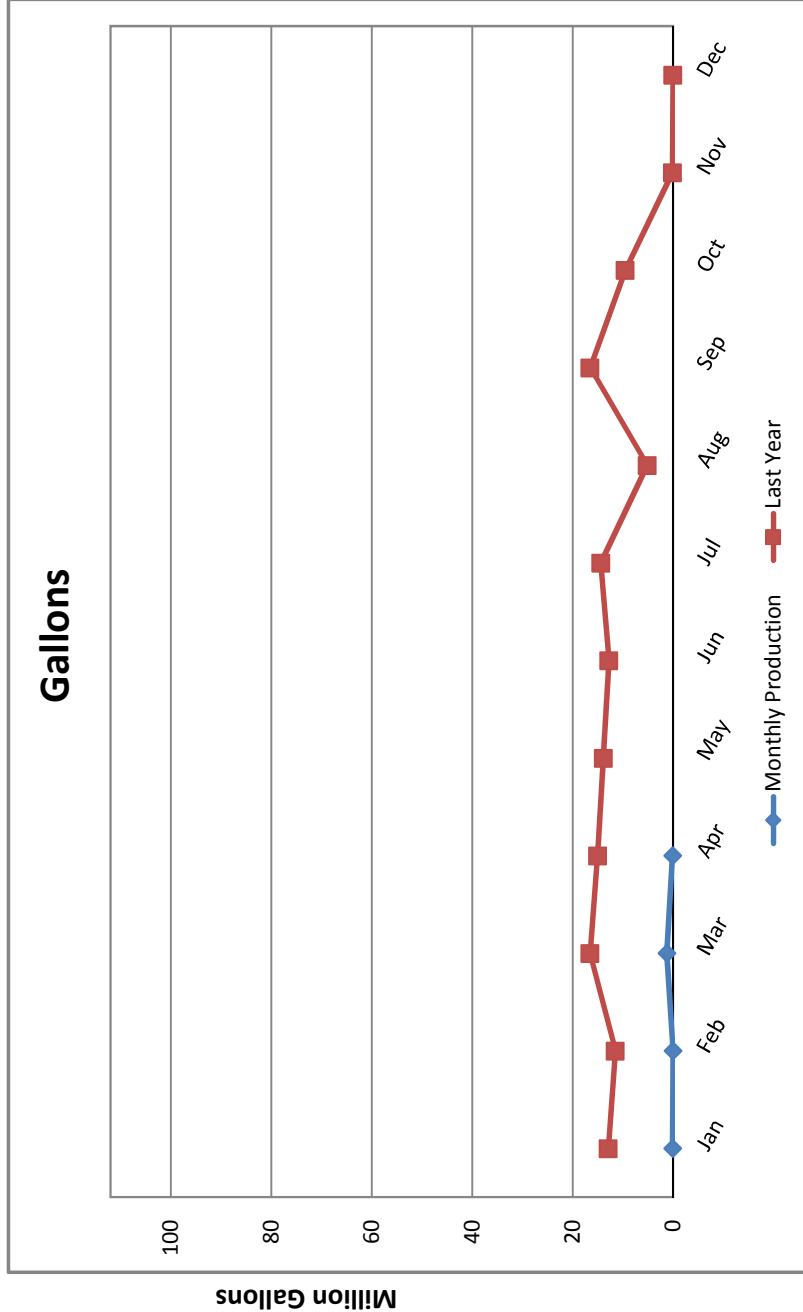
Motor Temp.: 182.6 F  
 Hour Meter: 1.70  
 KW Hour Total: 217.00

**Chlorine:**

Dosing: 1.42 mg/L  
 Demand: 0.67 mg/L  
 Residual: 0.75 mg/L

**Vibration Reading:**

Base Line: 0.02 in/sec  
 Current: 0.01 in/sec





## Elk Grove Water District

### Monthly Production

Well 8 Williamson -- Apr. 2016

**Selected Month Production**  
84,000 Gallons

**Average GPM:** 823

**Motor:**

Volts: 454  
 Volts (Rated): 460  
 RPM: 1914  
 RPM (Rated): 1780  
 Amps A: 88  
 Amps A (Rated): 87  
 Amps B: 87  
 Amps B (Rated): 87  
 Amps C: 88  
 Amps C (Rated): 87

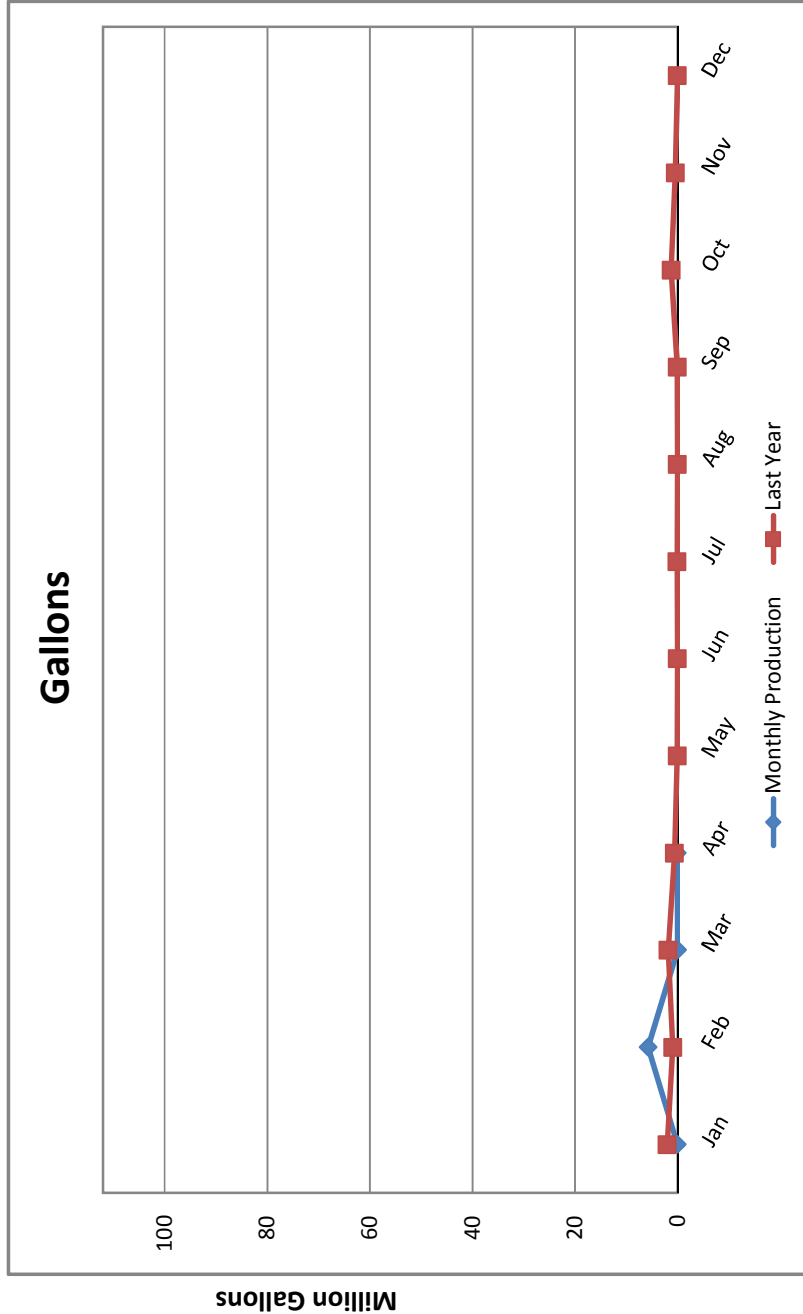
Motor Temp.: 111.3 F  
 Hour Meter: 1.70  
 KW Hour Total: 220.00

**Chlorine:**

Dosing: 1.14 mg/L  
 Demand: 0.27 mg/L  
 Residual: 0.87 mg/L

**Vibration Reading:**

Base Line: 0.03 in/sec  
 Current: 0.01 in/sec





## Elk Grove Water District

### Monthly Production

Well 9 Polhemus -- Apr. 2016  
(Submersible)

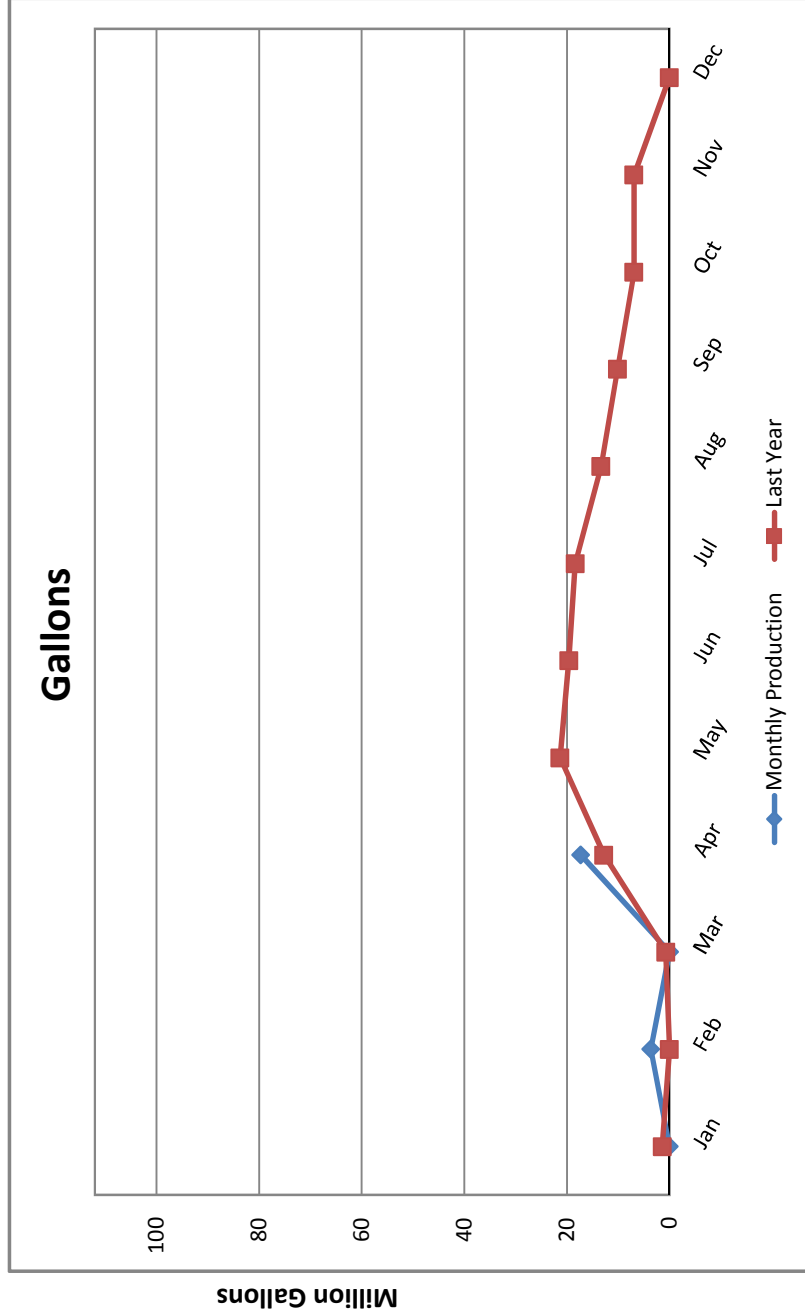
**Selected Month Production**  
17,309,000 Gallons

Average GPM: 486

**Motor:**  
Volts: 478  
Volts (Rated): 460  
  
Amps A: 59  
Amps A (Rated): 65  
Amps B: 57  
Amps B (Rated): 65  
Amps C: 61  
Amps C (Rated): 65

Hour Meter: 593.50  
KW Hour Total: 23,409.00

**Chlorine:**  
Dosing: 1.23 mg/L  
Demand: 0.19 mg/L  
Residual: 1.04 mg/L





# Elk Grove Water District

## Monthly Production

Well 13 Hampton -- Apr. 2016  
(Well is offline)

**Selected Month Production**  
0 Gallons

Average GPM: 0

**Motor:**

Volts: 460  
 RPM: 1785  
 Amps A: 142  
 Amps B: 142  
 Amps C: 142

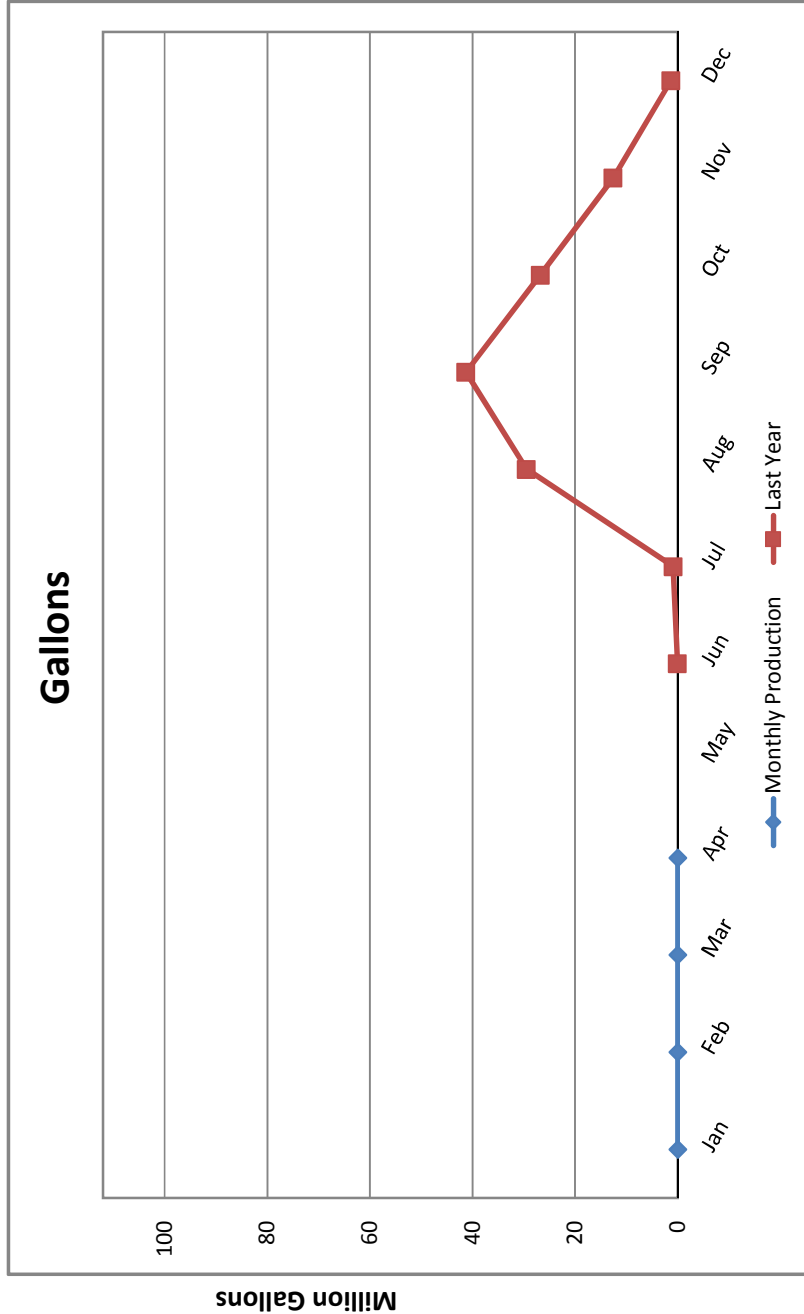
Motor Temp.: 0.00  
 Hour Meter: 0.00  
 KW Hour Total: 0.00

**Chlorine:**

Dosing: 0 mg/L  
 Demand: 0 mg/L  
 Residual: 0 mg/L

**Vibration Reading:**

Base Line: 0.02 in/sec  
 Current:







# Elk Grove Water District

## Combined Total Production

Service Area 1

Apr-2016

**Current Month Production:**

80,317,655 Gallons

**Highest Day Demand of the Month:**

3,449,000

**Date of Occurrence**

19-Apr-16

**Highest Day Demand of the Calendar Year:**

3,449,000

**Date of Occurrence**

19-Apr-16

**"Water Year" Rainfall: (Oct-15 to Sep-16)**

Current Month: 1.03 in

Year To Date: 15.80 in

**"Water Year" Rainfall: (Oct-14 to Sep-15)**

April 2015: 1.85 in

Year To Date: 15.27 in

Last Year Total: 15.45 in

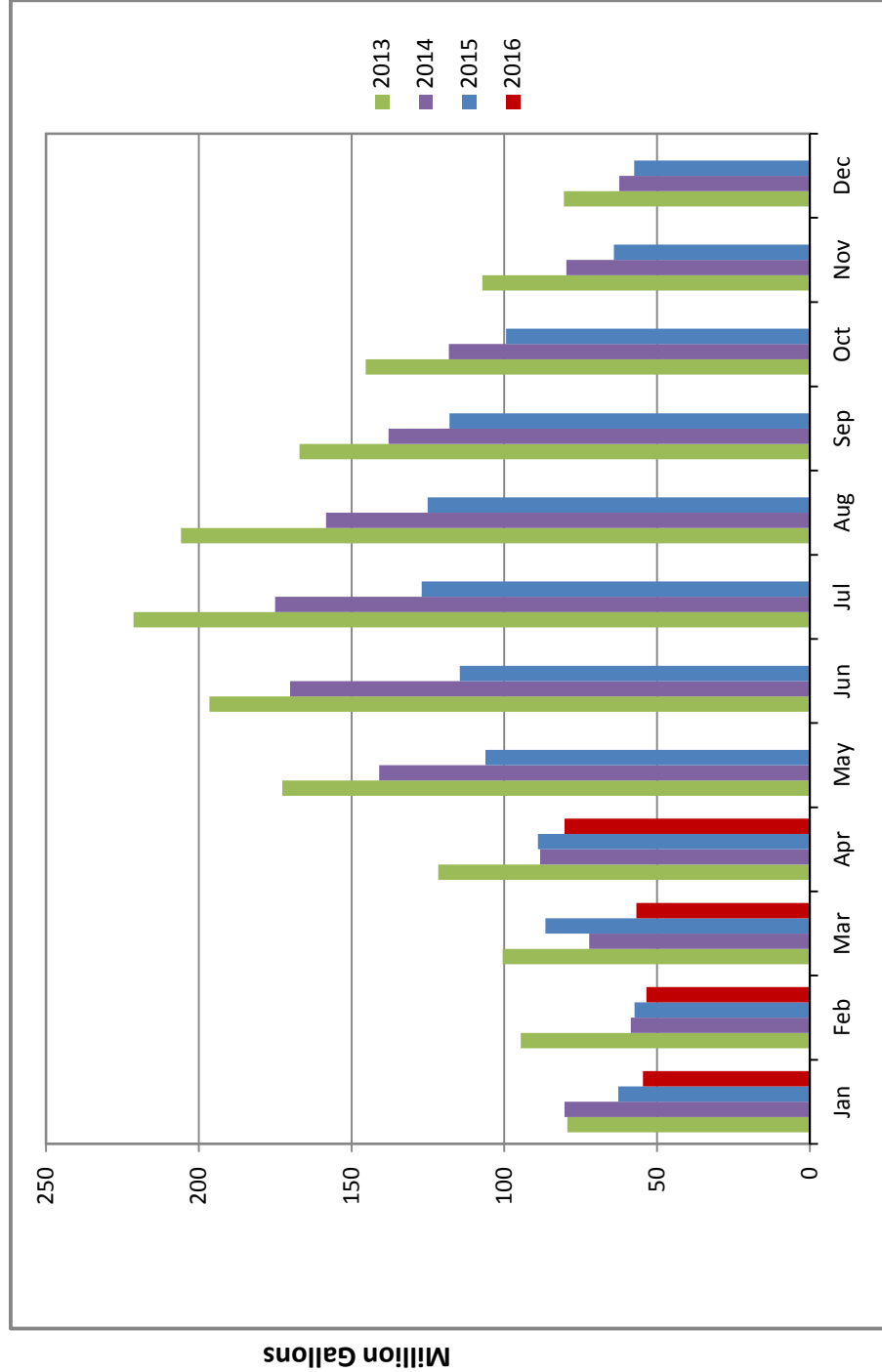
**Temperature:**

This Month High: 88 F

This Month Low: 44 F

APR-15 High: 92 F

APR-15 Low: 37 F

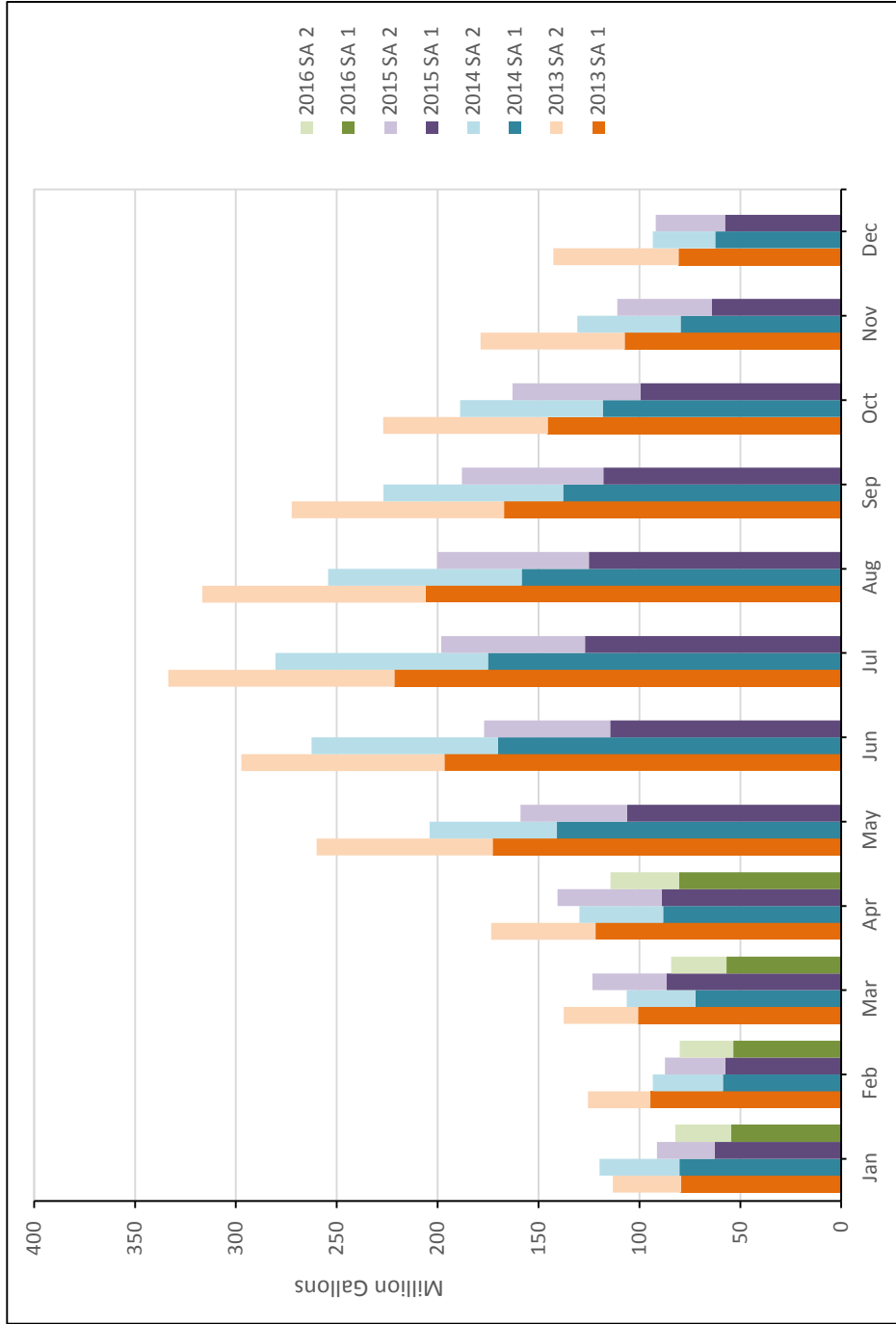




# Elk Grove Water District

## Total Demand/Production

Apr-2016



**Current Month Demand/Production:**  
114,371,851 Gallons  
**Reduction From Apr. 2013:** 34.09%  
**GPCD:** 61.5 Gallons per Day  
**R-GPCD:** 52.2 Gallons per Day

**Service Area 1**  
**Active Connections:** 7,905  
**Current Month Demand/Production:**  
80,317,655 Gallons  
**GPCD:** 94.1 Gallons per Day  
**R-GPCD:** 79.0 Gallons per Day

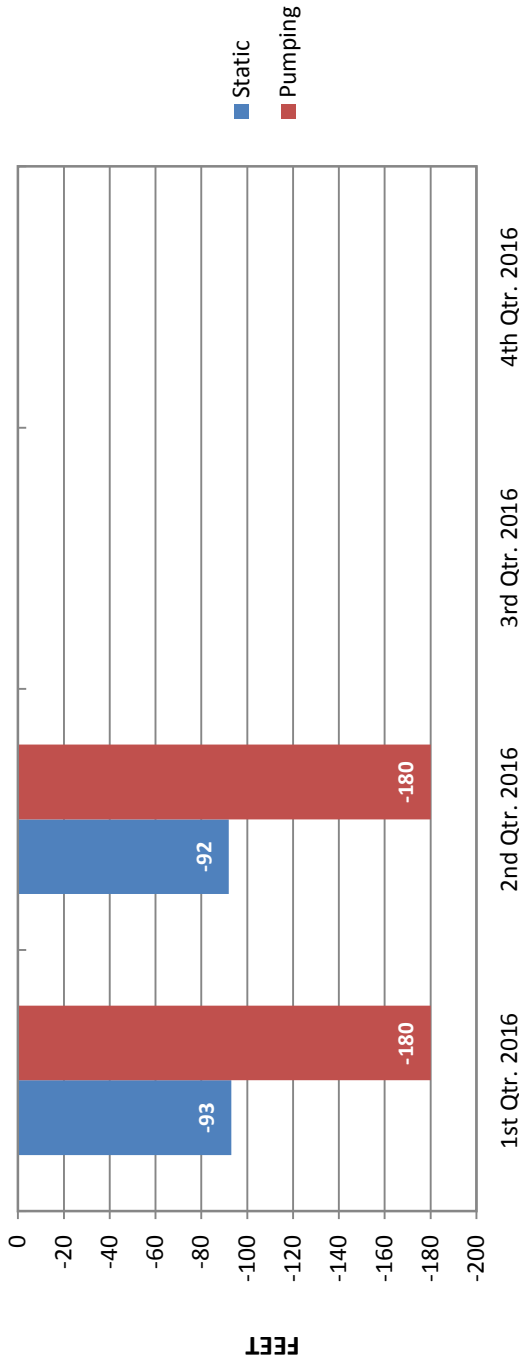
**Service Area 2**  
**Active Connections:** 4,270  
**Current Month Demand/Production:**  
34,054,196 Gallons  
**GPCD:** 71.7 Gallons per Day  
**R-GPCD:** 65.3 Gallons per Day



# Elk Grove Water District

## Static and Pumping Levels

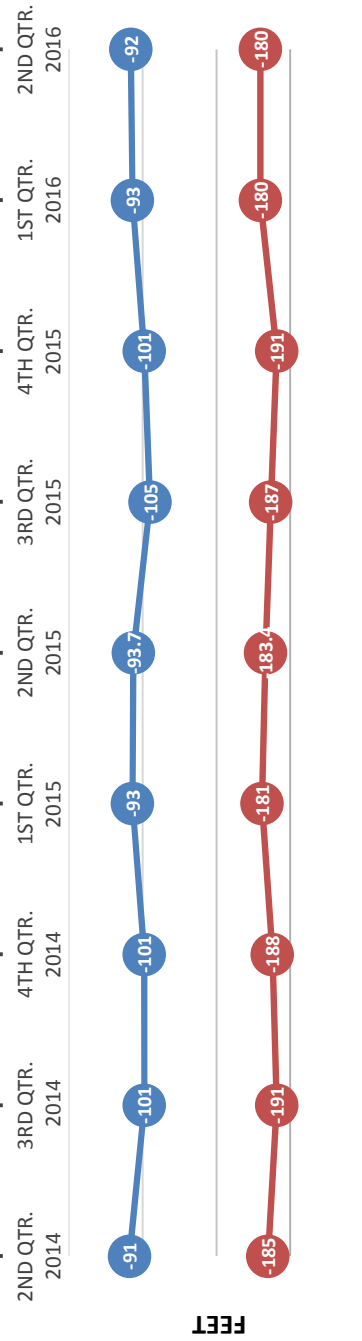
Well 1D School St



### Latest Well Sounding

Static: 92 Ft  
 Pumping: 180 Ft  
 Drawdown: 88 Ft  
 GPM: 1,855.00  
 Specific Capacity: 21.080

### Sounding Quarter/Year



### Latest Sand Tester Results:

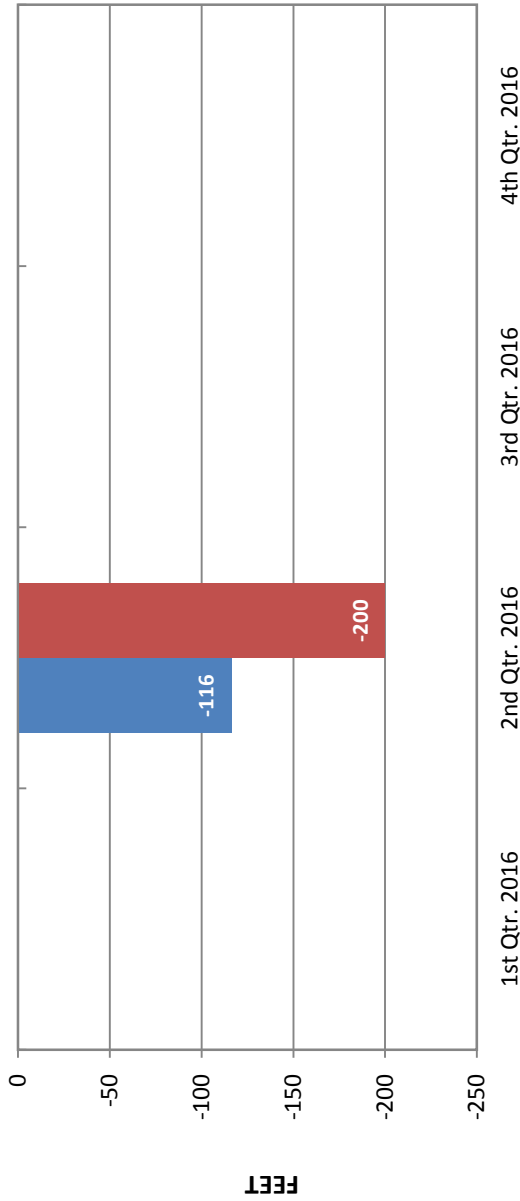
15 Min: < 5 ppm



# Elk Grove Water District

## Static and Pumping Levels

Well 4D Webb St

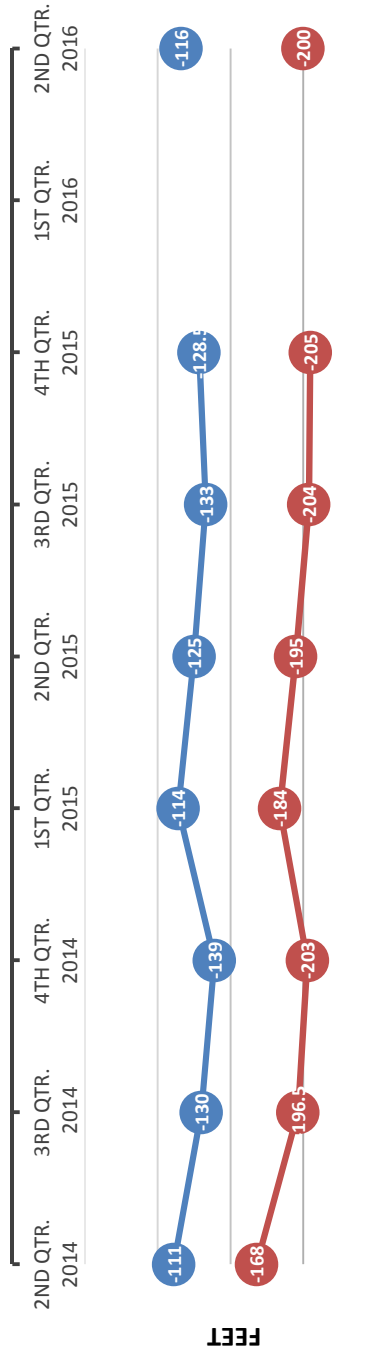


### Latest Well Sounding

**Static:** 116 Ft  
**Pumping:** 200 Ft  
**Drawdown:** 84 Ft  
**GPM:** 1,679.00  
**Specific Capacity:** 19.988

■ Static  
■ Pumping

### Sounding Quarter/Year



### Latest Sand Tester Results:

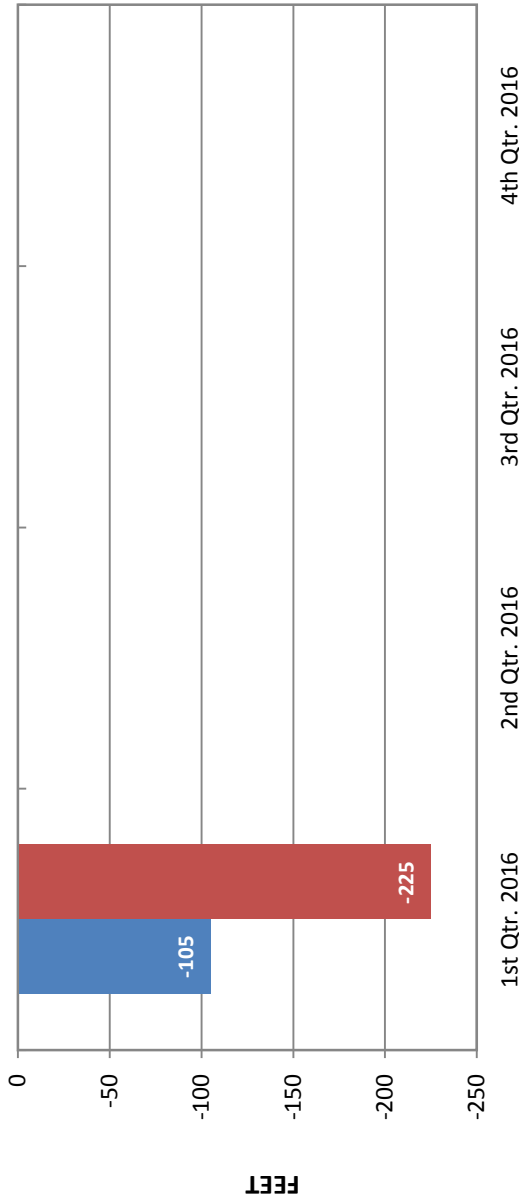
15 Min: < 5 ppm



# Elk Grove Water District

## Static and Pumping Levels

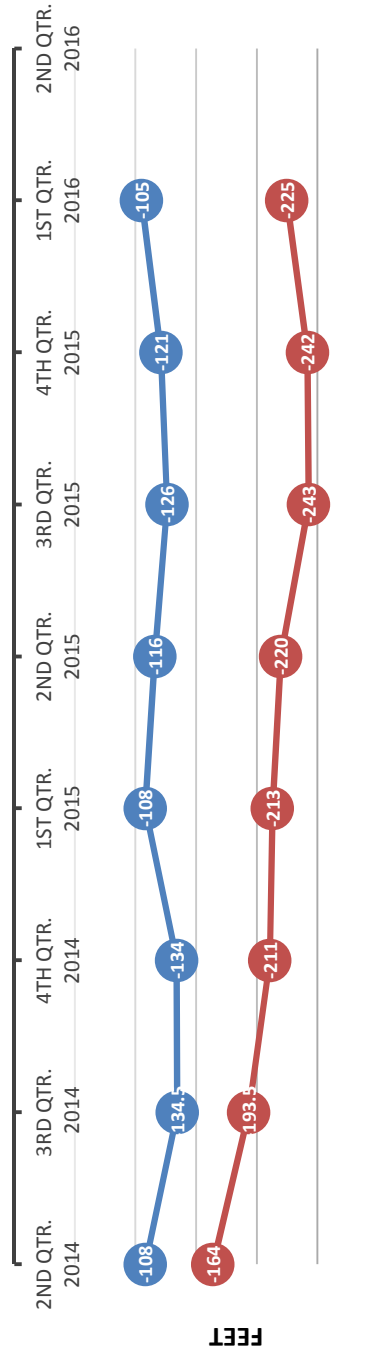
Well 11D Dino



### Latest Well Sounding

**Static:** 105 Ft  
**Pumping:** 225 Ft  
**Drawdown:** 120 Ft  
**GPM:** 1,698.00  
**Specific Capacity:** 14.150

### Sounding Quarter/Year



### Latest Sand Tester Results:

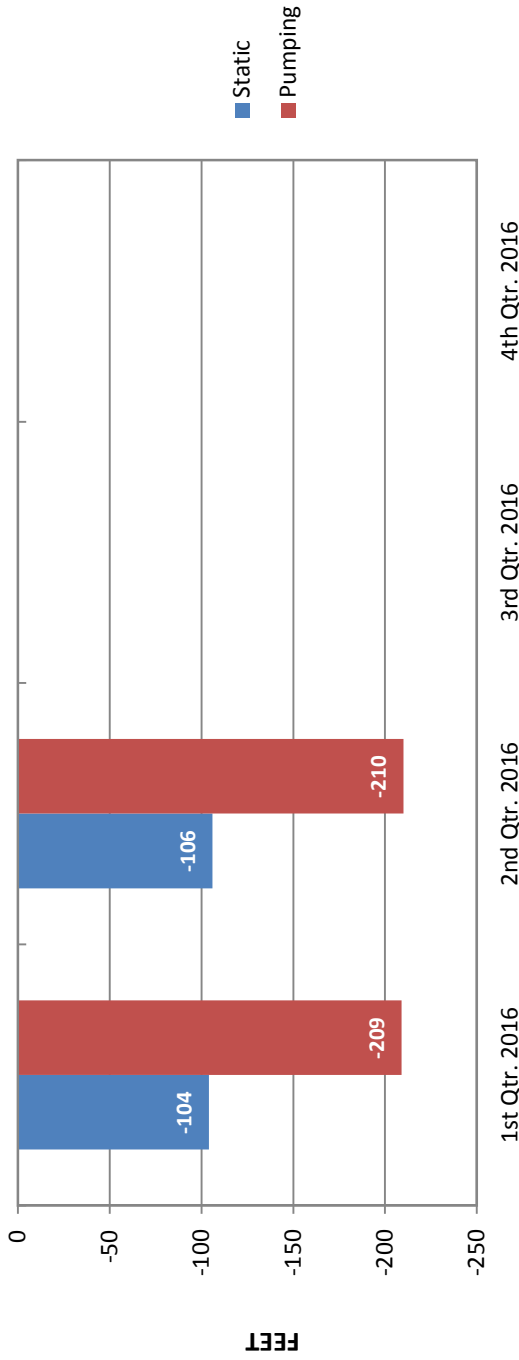
15 Min: < 5 ppm



# Elk Grove Water District

## Static and Pumping Levels

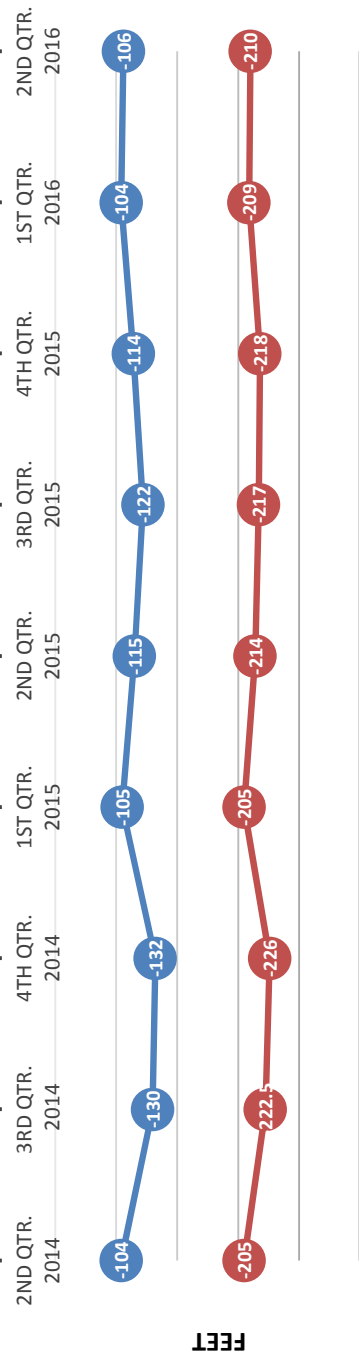
Well 14D Railroad



### Latest Well Sounding

**Static:** 104 Ft  
**Pumping:** 209 Ft  
**Drawdown:** 105 Ft  
**GPM:** 1,626.00  
**Specific Capacity:** 15.486

### Sounding Quarter/Year



### Latest Sand Tester Results:

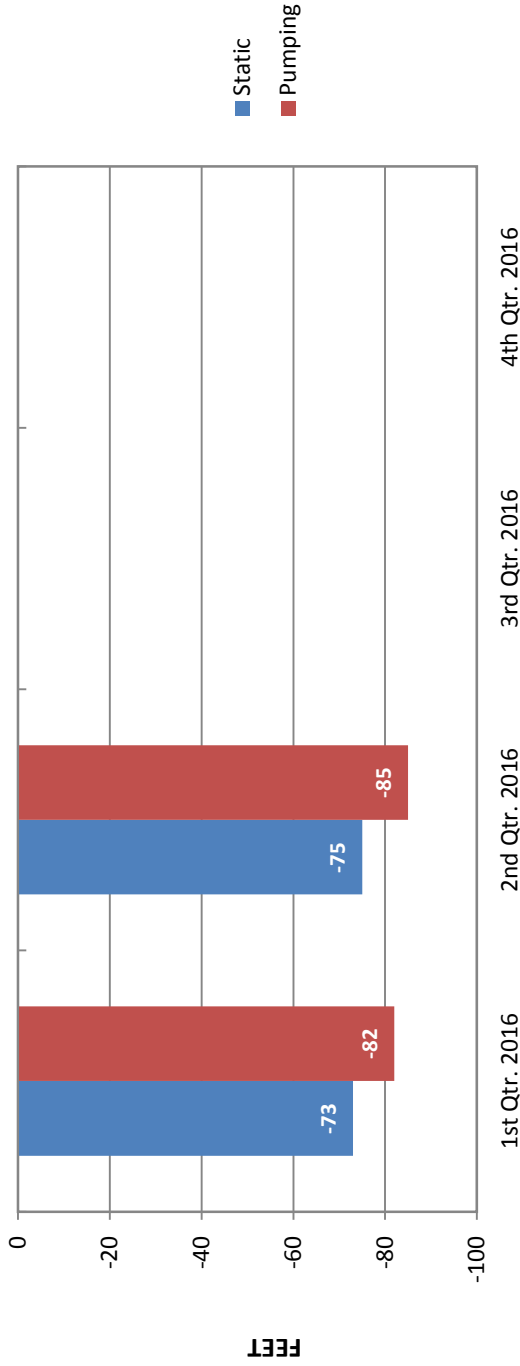
15 Min: < 5 ppm



# Elk Grove Water District

## Static and Pumping Levels

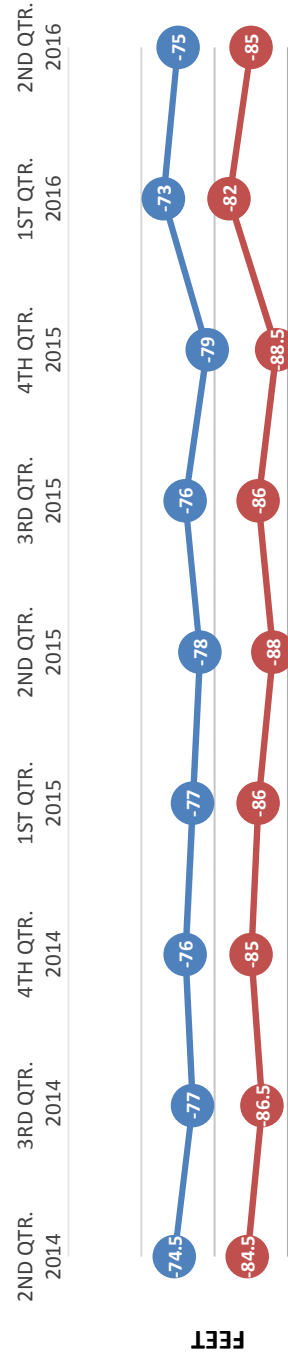
Well 3 Mar-Val



### Latest Well Sounding

Static: 75 Ft  
 Pumping: 85 Ft  
 Drawdown: 10 Ft  
 GPM: 870.00  
 Specific Capacity: 87.000

### Sounding Quarter/Year



### Latest Sand Tester Results:

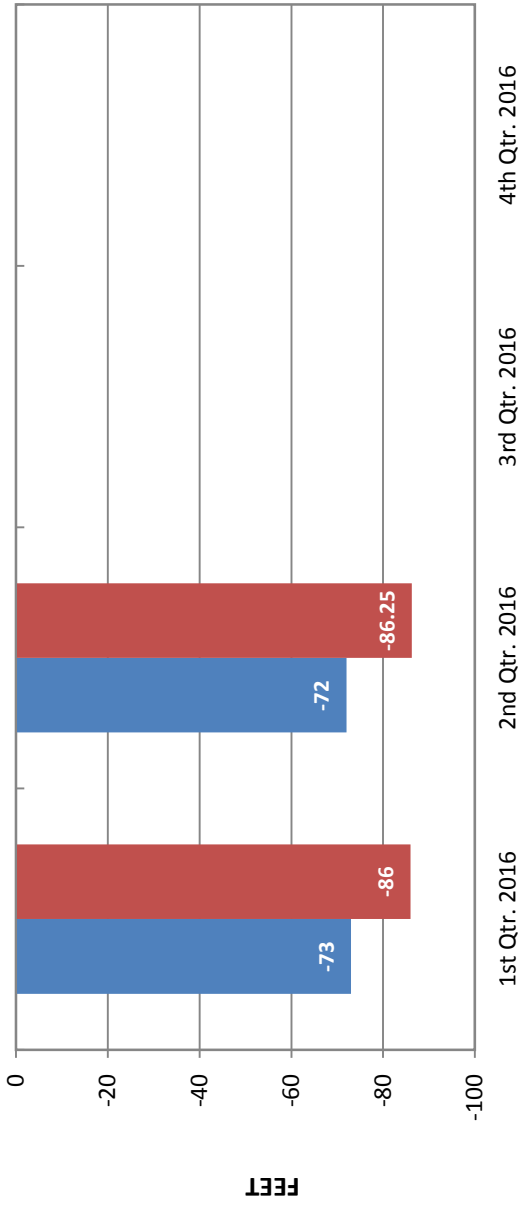
15 Min: < 5 ppm



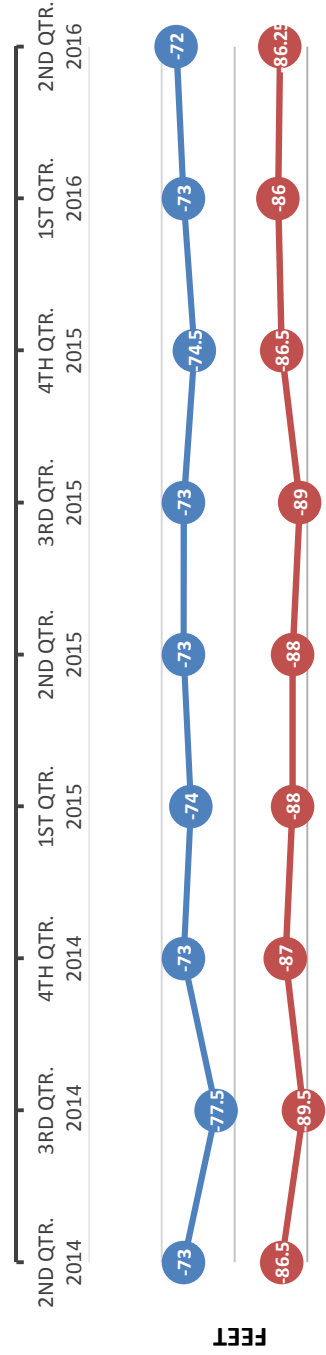
# Elk Grove Water District

## Static and Pumping Levels

Well 8 Williamson



### Sounding Quarter/Year



### Latest Well Sounding

**Static:** 72 Ft  
**Pumping:** 86.25 Ft  
**Drawdown:** 14.25 Ft  
**GPM:** 840.00  
**Specific Capacity:** 58.947

### Latest Sand Tester Results:

15 Min: < 5 ppm

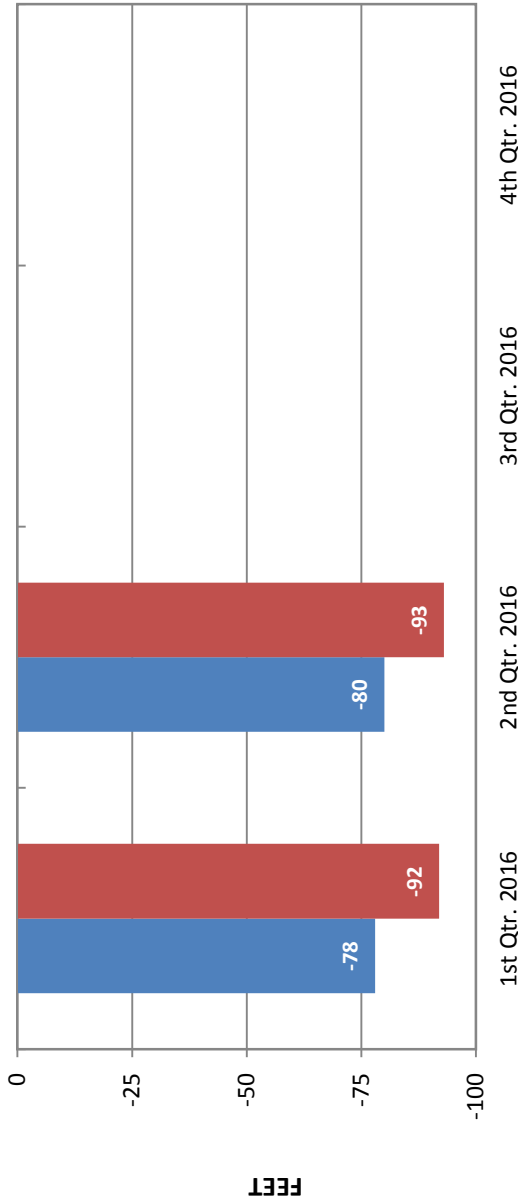




# Elk Grove Water District

## Static and Pumping Levels

Well 9 Polhemus

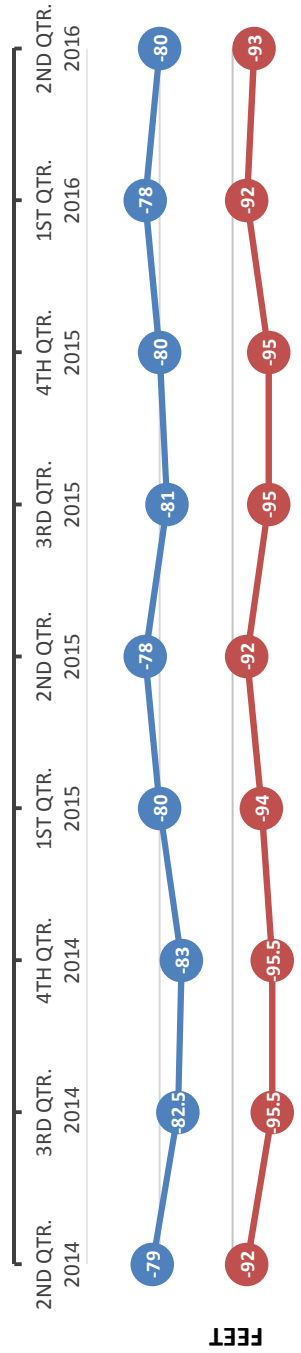


### Latest Well Sounding

Static: 80 Ft  
 Pumping: 93 Ft  
 Drawdown: 13 Ft  
 GPM: 480.00  
 Specific Capacity: 36.923

■ Static  
 ■ Pumping

### Sounding Quarter/Year



### Latest Sand Tester Results:

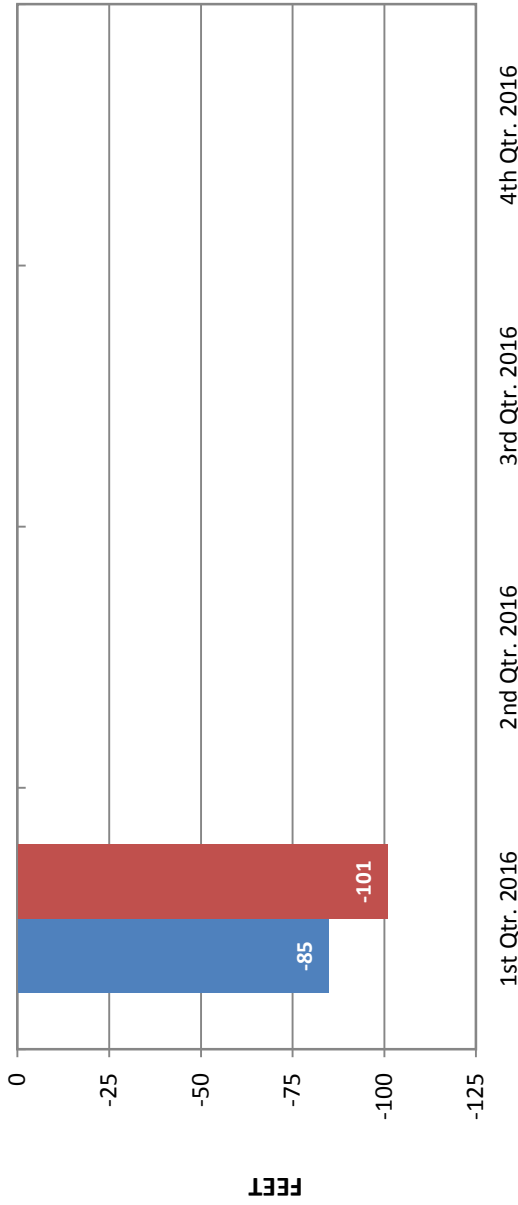
15 Min: < 5 ppm



# Elk Grove Water District

## Static and Pumping Levels

Well 13 Hampton



■ Static  
■ Pumping

### Latest Well Sounding

Static: 85 Ft

Pumping: 101 Ft

Drawdown: 16 Ft

GPM: 990.00

Specific Capacity: 61.875



### Latest Sand Tester Results:

15 Min: < 5 ppm

**Monthly Sample Report - April 2016**  
**Water System: Elk Grove Water System**

Sampling Point: 01 - 8693 W. Camden			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week
4/5/2016	Distribution System	TTHM's & HAA5	Quarterly

Sampling Point: School Well 01D - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence

Sampling Point: 02 - 9425 Emerald Vista			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week
4/5/2016	Distribution System	TTHM's & HAA5	Quarterly

Sampling Point: Mar-Val Well 3 Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence

Sampling Point: 03 - 8809 Valley Oak			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week

Sampling Point: Webb Well 04D - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Source Water	3 mo - Bacteriological	Quarterly
4/5/2016	Source Water	3 mo - Fe,Mn,As Total	Quarterly
4/5/2016	Source Water	3 mo - Fe,Mn,As Dissolved	Quarterly

Sampling Point: 04 - 10122 Glacier Point			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week

Sampling Point: 05 - 9230 Amsden Ct.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week

Sampling Point: 06 - 9227 Rancho Dr.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week

Sampling Point: 07 - AI Gates Park Mainline Dr.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week

Sampling Point: Williamson Well 8 Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence
Sampling Point: 08 - 9436 Hollow Springs Wy.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week
4/5/2016	Distribution System	TTHM's & HAA5	Quarterly
Sampling Point: Polhemus Well 9 Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/12/2016	Source Water	3 mo - Bacteriological	Quarterly
4/12/2016	Source Water	3 mo - Fe,Mn,As Total	Quarterly
4/12/2016	Source Water	3 mo - Fe,Mn,As Dissolved	Quarterly
Sampling Point: 09 - 8417 Blackman Wy.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week
Sampling Point: 10 - 9373 Oreo Ranch Cir.			
Sample Date	Sample Class	Sample Name	Collection Occurrence
4/5/2016	Distribution System	Bacteriological	Week
4/12/2016	Distribution System	Bacteriological	Week
4/19/2016	Distribution System	Bacteriological	Week
4/26/2016	Distribution System	Bacteriological	Week
Sampling Point: Dino Well 11D - Raw Water			
Sample Date	Sample Class	Sample Name	Collection Occurrence

Sampling Point: Hampton Well 13 - Raw Water		
Sample Date	Sample Class	Collection Occurrence
	Sample Name	
Sampling Point: Hampton WTP Effluent		
Sample Date	Sample Class	Collection Occurrence
	Sample Name	
Sampling Point: Hampton WTP Backwash Tank		
Sample Date	Sample Class	Collection Occurrence
4/5/2016	Wastewater 6 mo Bod, Tss, Tkn, Cu, Mn, Zn	BiAnnually
Sampling Point: Railroad Well 14D - Raw Water		
Sample Date	Sample Class	Collection Occurrence
	Sample Name	
Sampling Point: Railroad WTP Backwash Tank		
Sample Date	Sample Class	Collection Occurrence
4/5/2016	Wastewater 6 mo Bod, Tss, Tkn, Cu, Mn, Zn	BiAnnually
Sampling Point: Railroad WTP Effluent		
Sample Date	Sample Class	Collection Occurrence
4/5/2016	Treated Plant Effluent WTP Eff - Fe, Mn, As, Al Total	Month
4/5/2016	Treated Plant Effluent WTP Eff - Fe, Mn, As, Al Dissolved	Month
Sampling Point: Special Distribution/Construction Samples		
Sample Date	Sample Class	Collection Description
4/12/2016	Distribution System 9875 Dino Dr.	Remove Main Valve
4/20/2016	Wastewater Well 11D Dino	CIP Well Rehab
4/25/2016	Treated Water Storage Tank #1	CIP Tank Inspection
4/28/2016	Treated Water Storage Tank #G	CIP Tank Inspection
Colors		Yearly Total
Black = Scheduled		209
Green = Unscheduled		28
Red = Incomplete Sample		0
Monthly Total		209
		28
		0



May 5, 2016

State Water Resources Control Board  
Division of Drinking Water  
1001 I Street  
13<sup>th</sup> Floor  
Sacramento, Ca. 95814

**MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING**

Enclosed is the Monthly Summary of Distribution System Coliform Monitoring report from Elk Grove Water District for April 2016.

If you have any further questions, you may contact me at 916-687-3155 ext. 102.

A handwritten signature in blue ink, appearing to read "Steve Shaw", is written over a horizontal line.

STEVE SHAW  
WATER TREATMENT SUPERVISOR

## MONTHLY SUMMARY OF DISTRIBUTION SYSTEM COLIFORM MONITORING (including triggered source monitoring for systems subject to the Groundwater Rule)

System Name <p style="text-align: center; font-size: 1.2em;">Elk Grove Water District</p>	System Number <p style="text-align: center; font-size: 1.2em;">3410008</p>
Sampling Period <p style="text-align: center; font-size: 1.2em; color: blue;">April</p>	Year <p style="text-align: center; font-size: 1.2em;">2016</p>

	Number Required	Number Collected	Number Total Coliform Positives	Number Fecal/ E.coli Positives
1. Routine Samples (see note 1)	<u>40</u>	<u>40</u>	<u>0</u>	<u>0</u>
2. Repeat Samples following Samples that are Total Coliform Positive and Fecal/E.coli <b>Negative</b> (see notes 5 and 6)		<u>0</u>	<u>0</u>	<input style="width: 40px; height: 20px;" type="text"/>
3. Repeat Samples following Routine Samples that are Total Coliform <b>Positive</b> and Fecal/E.coli Positive (see notes 5 and 6)		<u>0</u>	<input style="width: 40px; height: 20px;" type="text"/>	<input style="width: 40px; height: 20px;" type="text"/>
4. MCL Computation for Total Coliform Positive Samples				
a. Totals (sum of columns)		<u>40</u>	<u>0</u>	
b. If 40 or more samples collected in month, determine percent of samples that are total coliform positive [(total number positive/total number collected) x 100] =	<u>0</u>	%		
c. Is system in compliance...with fecal/E. coli MCL? (see notes 2 and 3)	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No	
...with monthly MCL? (see note 4)	<input checked="" type="checkbox"/> Yes		<input type="checkbox"/> No	
5. Source Samples Triggered by Routine Samples that are Total Coliform Positive (This applies <b>only</b> to systems subject to the Groundwater Rule - see notes 7 and 8)		<u>0</u>	<u>0</u>	<input style="width: 40px; height: 20px;" type="text"/>
6. Invalidated Samples (Note what samples, if any, were invalidated; who authorized the invalidation; and when replacement samples were collected. Attach additional sheets, if necessary.)				
7. Summary Completed By: <b>Steve Shaw</b>				

Signature 	Title <p style="text-align: center; font-size: 1.2em;">Water Treatment Supervisor</p>	Date <p style="text-align: center; font-size: 1.2em;">5/5/2016</p>
---------------	--	---

**NOTES AND INSTRUCTIONS:**

1. Routine samples include:
  - a. Samples required pursuant to 22 CCR Section 64423 and any additional samples required by an approved routine sample siting plan established pursuant to 22 CCR Section 64422.
  - b. Extra samples are required for systems collecting less than five routine samples per month that had one or more total coliform positives in previous month;
  - c. Extra samples for systems with high source water turbidities that are using surface water or groundwater under direct influence of surface water and do not practice filtration in compliance with regulations;
2. Note: For a repeat sample following a total coliform positive sample, any fecal/*E.coli* positive repeat (boxed entry) **constitutes an MCL violation and requires immediate notification to the Department** (22, CCR, Section 64426.1).
3. Note: For repeat sample following a fecal/*E.coli* positive sample, any total coliform positive repeat (boxed entry) **constitutes an MCL violation and requires immediate notification to the Department** (22, CCR, Section 64426.1).
4. Total coliform MCL (**Notify Department within 24 hours of MCL violation**):
  - a. For systems collecting less than 40 samples, if two or more samples are total coliform positive, then the MCL is violated.
  - b. For systems collecting 40 or more samples, if more than 5.0 percent of samples collected are total coliform positive, then the MCL is violated.
5. Positive results and their associated repeat samples are to be tracked on the Coliform Monitoring Worksheet.
6. Repeat samples must be collected within 24 hours of being notified of the positive results. For systems collecting more than one routine sample per month, three repeat samples must be collected for each total coliform positive sample. For systems collecting one or fewer routine samples per month, four repeat samples must be collected for each total coliform positive sample.
7. For systems subject to the Groundwater Rule: Positive results and the associated triggered source samples are to be tracked on the Coliform Monitoring Worksheet.
8. For triggered sample(s) required as a result of a total coliform routine positive sample, an *E.coli*, enterococci, or coliphage positive triggered sample (boxed entry) **requires immediate notification to the Department, Tier 1 public notification, and corrective action.**





May 5, 2016

Sacramento Regional County  
Sanitation District  
Environmental Specialist  
10060 Goethe Rd.  
Sacramento, Ca. 95827

### **MONTHLY COMPLIANCE REPORT**

---

Enclosed is the Monthly Compliance Report Form from Elk Grove Water District for April 2016.

If you have any further questions, you may contact me at 916-687-3155 ext. 102.

A handwritten signature in blue ink, appearing to read "STEVE SHAW", is written over a horizontal line.

STEVE SHAW  
WATER TREATMENT SUPERVISOR



**COMPLIANCE REPORT FORM**

Attn: Tom Martin	Wastewater Source Control Section
Phone # (916) 876-7378	Fax # (916) 876-6374
From: Steve Shaw	
Company: Elk Grove Water Service	Permit# WTP010

The following reports and information are attached (check all that apply):

Month:	4	Year:	2016
--------	---	-------	------

Water use/flow meter report

Railroad WTP:	0
Hampton WTP:	1620

Monitoring results/analytical report

	Date	Time	pH
Hampton WTP	4-5-2016	12:29	8.1
Railroad WTP	4-5-2016	9:00 am	7.7

**Discharge Rate**

Check the statement below that applies to this report:

- Based on a review of this facilities flow data, discharge rate limit was exceeded
- I certify that this facility is in compliance with the discharge rate limit.

Attached is a description of anticipated changes that may significantly alter the nature, quality, or volume of the wastewater discharged.

Flow monitoring equipment certification (Flow or pH meter, etc.)

Other (describe)

**Domestic Calculation**

Domestic Usage	Number of Employees	Business Days per Month	Allowance (gallons per day)	Gallons
Production	2	21	25	1050
Office	3	21	20	1260
Drivers/Field	17	21	5	1785
Total				4095

**Certification Statement**

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations".

SIGNATURE of Authorized Representative:

\_\_\_\_\_

PRINTED NAME, TITLE:

Steve Shaw	Water Treatment Supervisor
(Name)	(Title)

DATE:

5-5-2016

## Elk Grove Water District Monthly Waste Report April 2016

Date	Railroad WTP Waste Meter	Gallons	Hampton WTP Waste Meter	Gallons
1	10723761	0	81358	0
2	10729125	5364 *	81358	0
3	10729125	0	81358	0
4	10729125	0	82978	1620
5	10729125	0	82978	0
6	10729125	0	82978	0
7	10729125	0	82978	0
8	10729125	0	82978	0
9	10729125	0	82978	0
10	10729125	0	82978	0
11	10729125	0	82978	0
12	10729125	0	82978	0
13	10729125	0	82978	0
14	10729125	0	82978	0
15	10729125	0	82978	0
16	10729125	0	82978	0
17	10729125	0	82978	0
18	10729125	0	82978	0
19	10729125	0	82978	0
20	10729125	0	82978	0
21	10729125	0	82978	0
22	10729125	0	82978	0
23	10729125	0	82978	0
24	10729125	0	82978	0
25	10729125	0	82978	0
26	10729125	0	82978	0
27	10729125	0	82978	0
28	10729125	0	82978	0
29	10729125	0	82978	0
30	10729125	0	82978	0
31				

\* Simulated flow for meter calibration

Steve Shaw  
Elk Grove Water District  
9257 Elk Grove Boulevard  
Elk Grove, CA 95624

**RE: Report for A6D0399 General**

Dear Steve Shaw,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 4/6/2016. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, Michelle Kawaguchi, at 559-497-2888.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

*Michelle Kawaguchi*

Michelle Kawaguchi, Project Manager



Accredited in Accordance with NELAP  
ORELAP #4021

**Case Narrative**

Project and Report Details	Invoice Details
----------------------------	-----------------

<b>Client:</b> Elk Grove Water District <b>Report To:</b> Steve Shaw <b>Project #:</b> April 2016 Hampton Backwash Wastewater <b>Received:</b> 4/06/2016 - 09:30 <b>Report Due:</b> 4/20/2016	<b>Invoice To:</b> Elk Grove Water District <b>Invoice Attn:</b> Steve Shaw <b>Project PO#:</b> -
---	---

**Sample Receipt Conditions**

<b>Cooler:</b> Default Cooler	Containers Intact
<b>Temperature on Receipt °C:</b> 1.3	COC/Labels Agree
	Received On Wet Ice
	Packing Material - Bubble Wrap
	Sample(s) were received in temperature range.
	Initial receipt at BSK-SAC

**Data Qualifiers**

The following qualifiers have been applied to one or more analytical results:

- CV0.0 CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.
- MS1.0 Matrix spike recoveries exceed control limits.

**Report Distribution**

Recipient(s)	Report Format	CC:
Steve Shaw	FINAL.RPT	wquintero@egwd.org
Aaron Hewitt	FINAL.RPT	

**Certificate of Analysis**

**Sample ID:** A6D0399-03

**Sampled By:** Aaron Hewitt

**Sample Description:** Composite - Hampton Backwash Wastewater Bottles 1 & 2

**Sample Date - Time:** 04/05/16 - 12:29

**Matrix:** Waste Water

**Sample Type:** Composite

**Composite Start:** 04/05/16 - 12:28

**BSK Associates Fresno**  
**General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Biochemical Oxygen Demand	SM 5210B	ND	1.0	mg/L	1	A603932	04/06/16 18:40	04/11/16	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	A604053	04/07/16	04/11/16	
Total Suspended Solids	SM 2540D	ND	5.0	mg/L	1	A604040	04/07/16	04/12/16	

**Metals**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Copper	EPA 200.8	ND	5.0	ug/L	1	A604067	04/07/16	04/18/16	
Manganese	EPA 200.7	ND	0.010	mg/L	1	A604067	04/07/16	04/14/16	
Zinc	EPA 200.8	ND	50	ug/L	1	A604067	04/07/16	04/18/16	CV0.0

**BSK Associates Fresno**  
**General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
<b>EPA 351.2 - Quality Control</b>											
Batch: A604053											Prepared: 4/7/2016
Prep Method: Digestion											Analyst: CEG
<b>Blank (A604053-BLK1)</b>											
Total Kjeldahl Nitrogen	ND	1.0	mg/L							04/11/16	
<b>Blank Spike (A604053-BS1)</b>											
Total Kjeldahl Nitrogen	10	1.0	mg/L	10		101	90-110			04/11/16	
<b>Blank Spike Dup (A604053-BSD1)</b>											
Total Kjeldahl Nitrogen	9.6	1.0	mg/L	10		96	90-110	6	10	04/18/16	
<b>Matrix Spike (A604053-MS1), Source: A6D0424-02</b>											
Total Kjeldahl Nitrogen	14	1.0	mg/L	10	2.9	109	90-110			04/11/16	
<b>Matrix Spike Dup (A604053-MSD1), Source: A6D0424-02</b>											
Total Kjeldahl Nitrogen	14	1.0	mg/L	10	2.9	116	90-110	5	10	04/11/16	MS1.0 High
<b>SM 2540D - Quality Control</b>											
Batch: A604040											Prepared: 4/7/2016
Prep Method: Method Specific Preparation											Analyst: DEH
<b>Blank (A604040-BLK1)</b>											
Total Suspended Solids	ND	5.0	mg/L							04/12/16	
<b>Duplicate (A604040-DUP1), Source: A6D0389-01</b>											
Total Suspended Solids	81	5.0	mg/L		80			1	20	04/12/16	
<b>Duplicate (A604040-DUP2), Source: A6D0395-01</b>											
Total Suspended Solids	22	5.0	mg/L		22			0	20	04/12/16	
<b>SM 5210B - Quality Control</b>											
Batch: A603932											Prepared: 4/6/2016
Prep Method: Method Specific Preparation											Analyst: NDR
<b>Blank (A603932-BLK1)</b>											
Biochemical Oxygen Demand	ND	1.0	mg/L							04/11/16	
<b>Blank Spike (A603932-BS1)</b>											
Biochemical Oxygen Demand	200	1.0	mg/L	200		100	85-115			04/11/16	
<b>Duplicate (A603932-DUP1), Source: A6D0387-02</b>											
Biochemical Oxygen Demand	46	9.0	mg/L		46			0	10	04/11/16	

**BSK Associates Fresno  
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 200.7 - Quality Control**

Batch: A604067

Prepared: 4/7/2016

Prep Method: EPA 200.2

Analyst: NYY

**Blank (A604067-BLK2)**

Manganese ND 0.010 mg/L 04/14/16

**Blank Spike (A604067-BS2)**

Manganese 0.19 0.010 mg/L 0.20 96 85-115 04/14/16

**Blank Spike Dup (A604067-BSD2)**

Manganese 0.19 0.010 mg/L 0.20 95 85-115 1 20 04/14/16

**Matrix Spike (A604067-MS3), Source: A6D0367-01**

Manganese 0.20 0.010 mg/L 0.20 ND 98 70-130 04/14/16

**Matrix Spike (A604067-MS4), Source: A6D0450-01**

Manganese 0.29 0.010 mg/L 0.20 0.10 94 70-130 04/14/16

**Matrix Spike Dup (A604067-MSD3), Source: A6D0367-01**

Manganese 0.19 0.010 mg/L 0.20 ND 97 70-130 0 20 04/14/16

**Matrix Spike Dup (A604067-MSD4), Source: A6D0450-01**

Manganese 0.29 0.010 mg/L 0.20 0.10 95 70-130 1 20 04/14/16

**EPA 200.8 - Quality Control**

Batch: A604067

Prepared: 4/7/2016

Prep Method: EPA 200.2

Analyst: MAS

**Blank (A604067-BLK1)**

Copper ND 5.0 ug/L 04/18/16

Zinc ND 50 ug/L 04/18/16

**Blank Spike (A604067-BS1)**

Copper 200 5.0 ug/L 200 101 85-115 04/18/16

Zinc 200 50 ug/L 200 102 85-115 04/18/16

**Blank Spike Dup (A604067-BSD1)**

Copper 200 5.0 ug/L 200 99 85-115 2 20 04/18/16

Zinc 200 50 ug/L 200 102 85-115 0 20 04/18/16

**Matrix Spike (A604067-MS1), Source: A6D0367-01**

Copper 200 5.0 ug/L 200 9.9 97 70-130 04/18/16

Zinc 240 50 ug/L 200 ND 100 70-130 04/18/16

**Matrix Spike (A604067-MS2), Source: A6D0450-01**

Copper 190 5.0 ug/L 200 ND 92 70-130 04/18/16

Zinc 190 50 ug/L 200 ND 96 70-130 04/18/16

**Matrix Spike Dup (A604067-MSD1), Source: A6D0367-01**



**BSK Associates Fresno  
 Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 200.8 - Quality Control**

Batch: A604067

Prepared: 4/7/2016

Prep Method: EPA 200.2

Analyst: MAS

**Matrix Spike Dup (A604067-MSD1), Source: A6D0367-01**

Copper	210	5.0	ug/L	200	9.9	99	70-130	1	20	04/18/16	
Zinc	240	50	ug/L	200	ND	100	70-130	1	20	04/18/16	

**Matrix Spike Dup (A604067-MSD2), Source: A6D0450-01**

Copper	190	5.0	ug/L	200	ND	95	70-130	3	20	04/18/16	
Zinc	200	50	ug/L	200	ND	98	70-130	2	20	04/18/16	

**Certificate of Analysis**

**Notes:**

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

**Definitions**

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

**BSK is not accredited under the NELAC program for the following parameters:                                 \*\*NA\*\***

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

**Fresno**

State of California - ELAP	1180	State of Hawaii	4021
State of Nevada	CA000792016-1	State of Oregon - NELAC	4021
EPA - UCMR3	CA00079	State of Washington	C997-16

**Sacramento**

State of California - ELAP     2435

**Vancouver**

State of Oregon - NELAC     WA100008-008     State of Washington     C824-15



A6D0399



**04062016**

ElkGr3556

Turnaround: Standard

Due Date: 4/20/2016



Elk Grove Water District



1414 Stanislaus St., Fresno, CA 93706  
 (559) 497-2888 Fax (559) 497-2893  
 www.bskassociates.com

A6D0399  
 ELKGR3556  
  
 04/06/2016  
 10

**Required Fields**

Temp:

Invoice To:

Phone:

Fax:

Company/Client Name\*: Elk Grove Water District  
 Report Attention\*: Steve Shaw  
 Additional cc's: Aaron Hewitt  
 State: CA Zip: 95624  
 PO#: \_\_\_\_\_  
 Phone\*: 916-687-3155 ext. 102 Fax\*: 916-687-3157  
 E-mail\*: sshaw@egwd.org / ahewitt@egwd.org

Address\*: 9257 Elk Grove Blvd City: Elk Grove  
 Project: April 2016 Hampton Backwash Wastewater  
 Project #: \_\_\_\_\_  
 Regulatory Carbon Copies: CDPH, Fresno Co, Merced Co, Tulare Co, Madera Co, Other: \_\_\_\_\_  
 Regulatory Compliance: EDT to California DPH, System Number\*: \_\_\_\_\_

Reporting Options:  Trace (U-Flag)  Swamp  EDD Type \_\_\_\_\_  
 How would you like your completed results sent?  E-Mail  Fax  Mail  
 Sampler Name (Printed/Signature)\*: Aaron Hewitt  
 TAT:  Standard - 10 Business Days  Rush - Date Needed \_\_\_\_\_

Matrix Types: SW=Surface Water BV=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid  
 Geotracker #: \_\_\_\_\_  
 Comments / Station Code / WTRAX: WTRAX 17279

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	B.O.D.	T.S.S.	T.K.N.	Heavy Metals (Totals) Cu, Mn, Zn	XX Composite
		Date	Time							
1	Hampton Backwash Wastewater bottle 1	4-5-16	12:24	WW						
2	Hampton Backwash Wastewater bottle 2	4-5-16	12:28	WW						
3	Composite 1 & 2 (To be mixed by lab)	4-5-16		WW						

Relinquished by: (Signature and Printed Name) Aaron Hewitt  
 Company: EGWD  
 Date: 4-5-16  
 Time: 2:37  
 Received by: (Signature and Printed Name) Chris Grant  
 Company: BSK-SAC  
 Date: 4/5/16  
 Time: 1606  
 Received by: (Signature and Printed Name) Chris Grant  
 Company: BSK-SAC  
 Payment Received at Delivery: \_\_\_\_\_  
 Amount: \_\_\_\_\_  
 P.I.#: \_\_\_\_\_  
 Check: \_\_\_\_\_  
 Inlt: \_\_\_\_\_  
 Cash: \_\_\_\_\_

Shipping Method:  Fed Ex  UPS  None  
 Coding Method:  VET  BLUE  
 Payment for services rendered as noted herein are due in full within 30 days from the date involved. If not to paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the client/company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this chain of custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLAB/emi/conditions.pdf



# Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info		Yes	No	NA	Yes	No	NA	
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Were correct containers and preservatives received for the tests requested?			<input checked="" type="checkbox"/>
If samples were taken today, is there evidence that chilling has begun?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Were there bubbles in the VOA vials? (Volatiles Only)			<input checked="" type="checkbox"/>
Did all bottles arrive unbroken and intact?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Was a sufficient amount of sample received?			<input checked="" type="checkbox"/>
Did all bottle labels agree with COC?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do samples have a hold time <72 hours?			<input checked="" type="checkbox"/>
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Was PM notified of discrepancies? PM: _____ By/Time: _____			<input checked="" type="checkbox"/>
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?		1-2	3		
Bacti $\text{Na}_2\text{S}_2\text{O}_3$		—	—					
None (P) White Cap		—	—		1C	2C		
Cr6 (P) Br. Green Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW		Cl, pH > 8	Y	N				
Cr6 (P) Pink Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW		pH 9.3-9.7	Y	N				
Cr6 (P) Black Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	Y	N				
HNO <sub>3</sub> (P) Red Cap		—	—					
H <sub>2</sub> SO <sub>4</sub> (P) or (AG) Yellow Cap/Label		pH < 2	Y	N				
NaOH (P) Green Cap		Cl, pH > 10	Y	N				
NaOH + ZnAc (P)		pH > 9	Y	N				
Dissolved Oxygen 300ml (g)		—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—					
HCl (AG) Lt. Blue Label O&G, Diesel		—	—					
$\text{Na}_2\text{O}_3\text{S}+\text{HCl}$ (AG) Lt. Pink Label 525		—	—					
$\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549		—	—					
$\text{Na}_2\text{S}_2\text{O}_3$ (AG) Blue Label 547, 515, 548, THM, 524		—	—					
$\text{Na}_2\text{S}_2\text{O}_3$ (CG) Blue Label 504, 505		—	—					
$\text{Na}_2\text{S}_2\text{O}_3 + \text{MCAA}$ (CG) Orange Label 531		pH < 3	Y	N				
NH <sub>4</sub> Cl (AG) Purple Label 552		—	—					
EDA (AG) Brown Label DBPs		—	—					
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—					
Buffer pH 4 (CG)		—	—					
None (CG)		—	—					
H <sub>3</sub> PO <sub>4</sub> (CG) Salmon Label		—	—					
Other:								
Asbestos 1Liter Plastic w/ Foil		—	—					
Low Level Hg / Metals Double Baggie		—	—					
Bottled Water		—	—					
Clear Glass Jar: 250 / 500 / 1 Liter		—	—					
Soil Tube Brass / Steel / Plastic		—	—					
Tedlar Bag / Plastic Bag		—	—					
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials		
	S P			S P				
	S P			S P				
Comments								

Labeled by: JHD @ 15:28 Labels checked by: ZML @ 15:32 RUSH Paged by: @

Steve Shaw  
Elk Grove Water District  
9257 Elk Grove Boulevard  
Elk Grove, CA 95624

**RE: Report for A6D0396 General**

Dear Steve Shaw,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 4/6/2016. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

If additional clarification of any information is required, please contact your Project Manager, Michelle Kawaguchi, at 559-497-2888.

Thanks again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

*Michelle Kawaguchi*

Michelle Kawaguchi, Project Manager



Accredited in Accordance with NELAP  
ORELAP #4021

**Case Narrative**

Project and Report Details	Invoice Details
----------------------------	-----------------

<b>Client:</b> Elk Grove Water District <b>Report To:</b> Steve Shaw <b>Project #:</b> April 2016 Backwash Wastewater <b>Received:</b> 4/06/2016 - 09:30 <b>Report Due:</b> 4/20/2016	<b>Invoice To:</b> Elk Grove Water District <b>Invoice Attn:</b> Steve Shaw <b>Project PO#:</b> -
---	---

**Sample Receipt Conditions**

<b>Cooler:</b> Default Cooler <b>Temperature on Receipt °C:</b> 1.3	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Initial receipt at BSK-SAC
--	---

**Data Qualifiers**

**The following qualifiers have been applied to one or more analytical results:**

CV0.0    CCV recovery was above method acceptance limits; no material impact on reported result as sample is ND for this parameter.  
 MS1.0    Matrix spike recoveries exceed control limits.

**Report Distribution**

Recipient(s)	Report Format	CC:
Steve Shaw	FINAL.RPT	wquintero@egwd.org
Aaron Hewitt	FINAL.RPT	

**Certificate of Analysis**

**Sample ID:** A6D0396-03

**Sampled By:** Aaron Hewitt

**Sample Description:** Composite - Railroad Backwash Wastewater Bottles 1 & 2

**Sample Date - Time:** 04/05/16 - 09:01

**Matrix:** Waste Water

**Sample Type:** Composite

**Composite Start:** 04/05/16 - 09:00

**BSK Associates Fresno**

**General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Biochemical Oxygen Demand	SM 5210B	ND	1.0	mg/L	1	A603932	04/06/16 18:38	04/11/16	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	A604106	04/08/16	04/11/16	
Total Suspended Solids	SM 2540D	ND	5.0	mg/L	1	A604031	04/07/16	04/11/16	

**Metals**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Copper	EPA 200.8	ND	5.0	ug/L	1	A604067	04/07/16	04/18/16	
Manganese	EPA 200.7	0.036	0.010	mg/L	1	A604067	04/07/16	04/14/16	
Zinc	EPA 200.8	ND	50	ug/L	1	A604067	04/07/16	04/18/16	CV0.0



**BSK Associates Fresno**  
**General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 351.2 - Quality Control**

Batch: A604106

Prepared: 4/8/2016

Prep Method: Digestion

Analyst: CEG

**Blank (A604106-BLK1)**

Total Kjeldahl Nitrogen ND 1.0 mg/L 04/11/16

**Blank Spike (A604106-BS1)**

Total Kjeldahl Nitrogen 11 1.0 mg/L 10 110 90-110 04/11/16

**Blank Spike Dup (A604106-BSD1)**

Total Kjeldahl Nitrogen 11 1.0 mg/L 10 106 90-110 3 10 04/11/16

**Matrix Spike (A604106-MS1), Source: A6D0556-01**

Total Kjeldahl Nitrogen 9.7 1.0 mg/L 10 ND 91 90-110 04/11/16

**Matrix Spike (A604106-MS2), Source: A6D0638-04**

Total Kjeldahl Nitrogen 11 1.0 mg/L 10 ND 110 90-110 04/11/16

**Matrix Spike Dup (A604106-MSD1), Source: A6D0556-01**

Total Kjeldahl Nitrogen 8.5 1.0 mg/L 10 ND 78 90-110 14 10 04/11/16 MS1.0 Low

**Matrix Spike Dup (A604106-MSD2), Source: A6D0638-04**

Total Kjeldahl Nitrogen 10 1.0 mg/L 10 ND 104 90-110 5 10 04/11/16

**SM 2540D - Quality Control**

Batch: A604031

Prepared: 4/7/2016

Prep Method: Method Specific Preparation

Analyst: DEH

**Blank (A604031-BLK1)**

Total Suspended Solids ND 5.0 mg/L 04/11/16

**Duplicate (A604031-DUP1), Source: A6D0206-01**

Total Suspended Solids ND 5.0 mg/L ND 20 04/11/16

**Duplicate (A604031-DUP2), Source: A6D0284-02**

Total Suspended Solids 18 5.0 mg/L 21 15 20 04/11/16

**SM 5210B - Quality Control**

Batch: A603932

Prepared: 4/6/2016

Prep Method: Method Specific Preparation

Analyst: NDR

**Blank (A603932-BLK1)**

Biochemical Oxygen Demand ND 1.0 mg/L 04/11/16

**Blank Spike (A603932-BS1)**

Biochemical Oxygen Demand 200 1.0 mg/L 200 100 85-115 04/11/16

**Duplicate (A603932-DUP1), Source: A6D0387-02**

**BSK Associates Fresno**  
**General Chemistry Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**SM 5210B - Quality Control**

Batch: A603932

Prepared: 4/6/2016

Prep Method: Method Specific Preparation

Analyst: NDR

Duplicate (A603932-DUP1), Source: A6D0387-02

Biochemical Oxygen Demand	46	9.0	mg/L		46			0	10	04/11/16	
---------------------------	----	-----	------	--	----	--	--	---	----	----------	--

**BSK Associates Fresno  
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 200.7 - Quality Control**

Batch: A604067  
Prep Method: EPA 200.2  
Prepared: 4/7/2016  
Analyst: NYY

**Blank (A604067-BLK2)**

Manganese ND 0.010 mg/L 04/14/16

**Blank Spike (A604067-BS2)**

Manganese 0.19 0.010 mg/L 0.20 96 85-115 04/14/16

**Blank Spike Dup (A604067-BSD2)**

Manganese 0.19 0.010 mg/L 0.20 95 85-115 1 20 04/14/16

**Matrix Spike (A604067-MS3), Source: A6D0367-01**

Manganese 0.20 0.010 mg/L 0.20 ND 98 70-130 04/14/16

**Matrix Spike (A604067-MS4), Source: A6D0450-01**

Manganese 0.29 0.010 mg/L 0.20 0.10 94 70-130 04/14/16

**Matrix Spike Dup (A604067-MSD3), Source: A6D0367-01**

Manganese 0.19 0.010 mg/L 0.20 ND 97 70-130 0 20 04/14/16

**Matrix Spike Dup (A604067-MSD4), Source: A6D0450-01**

Manganese 0.29 0.010 mg/L 0.20 0.10 95 70-130 1 20 04/14/16

**EPA 200.8 - Quality Control**

Batch: A604067  
Prep Method: EPA 200.2  
Prepared: 4/7/2016  
Analyst: MAS

**Blank (A604067-BLK1)**

Copper ND 5.0 ug/L 04/18/16

Zinc ND 50 ug/L 04/18/16

**Blank Spike (A604067-BS1)**

Copper 200 5.0 ug/L 200 101 85-115 04/18/16

Zinc 200 50 ug/L 200 102 85-115 04/18/16

**Blank Spike Dup (A604067-BSD1)**

Copper 200 5.0 ug/L 200 99 85-115 2 20 04/18/16

Zinc 200 50 ug/L 200 102 85-115 0 20 04/18/16

**Matrix Spike (A604067-MS1), Source: A6D0367-01**

Copper 200 5.0 ug/L 200 9.9 97 70-130 04/18/16

Zinc 240 50 ug/L 200 ND 100 70-130 04/18/16

**Matrix Spike (A604067-MS2), Source: A6D0450-01**

Copper 190 5.0 ug/L 200 ND 92 70-130 04/18/16

Zinc 190 50 ug/L 200 ND 96 70-130 04/18/16

**Matrix Spike Dup (A604067-MSD1), Source: A6D0367-01**

**BSK Associates Fresno  
 Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
---------	--------	----	-------	-------------	---------------	------	-------------	-----	-----------	---------------	------

**EPA 200.8 - Quality Control**

Batch: A604067

Prepared: 4/7/2016

Prep Method: EPA 200.2

Analyst: MAS

**Matrix Spike Dup (A604067-MSD1), Source: A6D0367-01**

Copper	210	5.0	ug/L	200	9.9	99	70-130	1	20	04/18/16	
Zinc	240	50	ug/L	200	ND	100	70-130	1	20	04/18/16	

**Matrix Spike Dup (A604067-MSD2), Source: A6D0450-01**

Copper	190	5.0	ug/L	200	ND	95	70-130	3	20	04/18/16	
Zinc	200	50	ug/L	200	ND	98	70-130	2	20	04/18/16	

**Certificate of Analysis**

**Notes:**

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

**Definitions**

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	Picocuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent Recovered (surrogates)	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

**Please see the individual Subcontract Lab's report for applicable certifications.**

**BSK is not accredited under the NELAC program for the following parameters:**

**\*\*NA\*\***

**Certifications:** Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

**Fresno**

State of California - ELAP	1180	State of Hawaii	4021
State of Nevada	CA000792016-1	State of Oregon - NELAC	4021
EPA - UCMR3	CA00079	State of Washington	C997-16

**Sacramento**

State of California - ELAP	2435
----------------------------	------

**Vancouver**

State of Oregon - NELAC	WA100008-008	State of Washington	C824-15
-------------------------	--------------	---------------------	---------



A6D0396



04062016

ElkGr3556

Turnaround: Standard

Due Date: 4/20/2016



Elk Grove Water District




# BSK Associates

Engineering Laboratories

1414 Stanislaus St., Fresno, CA 93706  
 (559) 497-2888 Fax (559) 497-2893  
 www.bskassociates.com

1.3

A6D0396  
 ElkGr3556  
  
 04/06/2016  
 10

### Required Fields

Temp:

Invoice To:

Phone:

Fax:

Company/Client Name: Elk Grove Water District  
 Report Attention: Steve Shaw  
 Additional cc's: Aaron Hewitt  
 State: CA Zip: 95624  
 Project: April 2016 Backwash Wastewater  
 Project #: CA  
 Invoice To: PO#:  
 Phone: 916-687-3155 ext. 102 Fax: 916-687-3157  
 E-mail: sshaw@egwd.org / ahewitt@egwd.org

Address: 9257 Elk Grove Blvd Elk Grove CA 95624  
 City: Elk Grove State: CA Zip: 95624  
 Project: April 2016 Backwash Wastewater  
 Project #: CA  
 CDPH  Fresno Co   
 Merced Co  Tulare Co   
 Madera Co  Other:

Reporting Options:  
 Trace (J-Flag)  Swamp  EDD Type: \_\_\_\_\_  
 How would you like your completed results sent?  
 E-Mail  Fax  Mail  
 TAT\* Standard - 10 Business Days \*\*Surcharge  
 \*\*Rush Date Needed  
 Regulatory Compliance  
 EDT to California DPH  
 System Number: \_\_\_\_\_  
 Geotracker # \_\_\_\_\_  
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	B.O.D.	T.S.S.	T.K.N.	Heavy Metals (Totals) Cu, Mn, Zn	XX Composite
		Date	Time							
1	Railroad Backwash Wastewater bottle 1	4-5-16	9:30	WW						
2	Railroad Backwash Wastewater bottle 2	4-5-16	10:15	WW						
3	Composite 1 & 2 (To be mixed by lab)	4-5-16		WW	WTRAX 17257	X	X	X	X	

Field Test pH = 7.7

Reinforced by: (Signature and Printed Name) Aaron Hewitt  
 Reinspected by: (Signature and Printed Name) Chris Grant  
 Received for Lab by: (Signature and Printed Name) Chris Grant  
 Received by: (Signature and Printed Name) S. Chopak  
 Received at: (Signature and Printed Name) BSK-SAC  
 Shipping Method: ONTRAC Blue UPS Note GSO WALK-IN FED EX  
 Cooling Method: Ver Blue  
 Payment for services rendered are due in full within 30 days from the date invoice. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLABTermsConditions.pdf

Amount: Y/N  
 Custody Seal: Y/N  
 Chilling Process Begun: Y/N  
 Check: /  
 Init: /  
 Cash: /



# Sample Integrity

BSK Bottles Yes No

Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$			Were correct containers and preservatives received for the tests requested?		
	Yes	No	NA	Yes	No	NA
COC Info	If samples were taken today, is there evidence that chilling has begun?			Were there bubbles in the VOA vials? (Volatiles Only)		
	Did all bottles arrive unbroken and intact?			Was a sufficient amount of sample received?		
	Did all bottle labels agree with COC?			Do samples have a hold time <72 hours?		
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?			Was PM notified of discrepancies?		
				PM: _____ By/Time: _____		
Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?	1-2	3
	Bacti Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		—	—		
	None (P) White Cap		—	—	1c	2c
	Cr6 (P) Br. Green Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> DW		Cl, pH > 8	Y N		
	Cr6 (P) Pink Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> WW		pH 9.3-9.7	Y N		
	Cr6 (P) Black Label/Blue Cap NH <sub>4</sub> OH(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	Y N		
	HNO <sub>3</sub> (P) Red Cap		—	—		
	H <sub>2</sub> SO <sub>4</sub> (P) or (AG) Yellow Cap/Label		pH < 2	Y N		
	NaOH (P) Green Cap		Cl, pH > 10	Y N		
	NaOH + ZnAc (P)		pH > 9	Y N		
	Dissolved Oxygen 300ml (g)		—	—		
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—		
	HCl (AG) Lt. Blue Label O&G, Diesel		—	—		
	Na <sub>2</sub> O <sub>3</sub> S+HCl (AG) Lt. Pink Label 525		—	—		
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 1 Liter (Brown P) 549		—	—		
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (AG) Blue Label 547, 515, 548, THM, 524		—	—		
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CG) Blue Label 504, 505		—	—		
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (CG) Orange Label 531		pH < 3	Y N		
	NH <sub>4</sub> Cl (AG) Purple Label 552		—	—		
	EDA (AG) Brown Label DBPs		—	—		
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—		
	Buffer pH 4 (CG)		—	—		
	None (CG)		—	—		
	H <sub>3</sub> PO <sub>4</sub> (CG) Salmon Label		—	—		
	Other:					
Asbestos 1Liter Plastic w/ Foil		—	—			
Low Level Hg / Metals Double Baggie		—	—			
Bottled Water		—	—			
Clear Glass Jar: 250 / 500 / 1 Liter		—	—			
Soil Tube Brass / Steel / Plastic		—	—			
Tedlar Bag / Plastic Bag		—	—			
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials
	S P			S P		
Comments	S P			S P		

Composit

4/6/16

Labeled by: 012 @ 1527

Labels checked by: TML @ 15:33

RUSH Paged by: \_\_\_\_\_ @ \_\_\_\_\_





# INSTRUMENT CALIBRATION REPORT

Aqua Sierra Controls, Inc.  
 1650 Industrial Drive  
 Auburn, CA 95603  
 Phone (800) 649-4287  
 Fax (530) 823-3475  
 service@aquasierra.com

RECEIVED

APR 16 2016

Attn: STEVE SHAW  
 ELK GROVE WATER DISTRICT  
 9257 ELK GROVE BLVD  
 ELK GROVE, CA. 95624

Instrument ID 07  
 Description MAGNETIC FLOW METER

Serial Number 04W024929  
 Model Number MFE4ER140111

Calibrated 4/1/2016  
 Scheduled 4/1/2017

Department ELK GROVE WATER  
 Manufacturer ABB KENT TAYLOR

Calibration ID 25482

Calibration Type INITIAL

Certificate # 07

Location RAILROAD WTP

Equipment ID WASTE METER

Building WASTE TANK

### Calibration Specifications

Stated Accy Pct of Reading

In Val	In Type	Out Val	Out Type	Fnd As	Error %	Lft As	Error %
0.00	FEET PER SEC.	0.00	GPM Rate	0.00	0.00%	0.00	0.00%
1.50	FEET PER SEC.	63.11	GPM Rate	63.35	0.38%	63.35	0.38%
3.00	FEET PER SEC.	126.21	GPM Rate	126.87	0.52%	126.87	0.52%
6.00	FEET PER SEC.	252.43	GPM Rate	253.71	0.51%	253.71	0.51%

Stated Accy Pct of Reading

In Val	In Type	Out Val	Out Type	Fnd As	Error %	Lft As	Error %
0.00	FEET PER SEC.	0.00	GPM Totalizer	0.00	0.00%	0.00	0.00%
1.50	FEET PER SEC.	63.11	GPM Totalizer	63.61	0.79%	63.61	0.79%
3.00	FEET PER SEC.	126.21	GPM Totalizer	126.83	0.49%	126.83	0.49%
6.00	FEET PER SEC.	252.43	GPM Totalizer	253.93	0.59%	253.93	0.59%

Stated Accy Pct of Reading

In Val	In Type	Out Val	Out Type	Fnd As	Error %	Lft As	Error %
0.00	FEET PER SEC.	4.00	mA	4.01	0.25%	4.01	0.25%
1.50	FEET PER SEC.	5.68	mA	5.69	0.18%	5.69	0.18%
3.00	FEET PER SEC.	7.37	mA	7.39	0.27%	7.39	0.27%
6.00	FEET PER SEC.	10.73	mA	10.77	0.37%	10.77	0.37%

### Test Instruments Used During the Calibration

Test Instrument ID	Description	Manufacturer	Model Number	Serial Number
203	Magmeter Simulator	Abb	MFE-SIM	P1540511212
356	TRUE RMS MULTIMETER	Fluke	87MKV	31860265 - KEVIN

### Notes about this calibration

WASTE METER  
 MAIN FLOOR  
 0-600 GPM = 4-20 mA  
 SENSOR SIZE: 100 MM  
 SENSOR FACTOR: #1 = 1.10888, #2 = -19, #3 = 5, #4 = 1.0000  
 TOTALIZER START: 10723761 GALLONS  
 TOTALIZER END: 10729125 GALLONS  
 METER IS LOCATED AT: 9715 RAILROAD STREET, ELK GROVE  
 RAILROAD W.T.P.

Calibration Result Calibration Successful  
 Who Calibrated KEVIN VANG

Aqua Sierra Controls, Inc.  
 1650 Industrial Drive  
 Auburn, CA 95603  
 (530) 823-3241 Fax (530-823-3475

METER CERTIFICATION REPORT

**CUSTOMER:** ELK GROVE WATER DISTRICT  
**ADDRESS:** 9257 ELK GROVE BLVD.  
 ELK GROVE, CA. 95624  
**LOCATION:** 10113 HAMPTON OAK, HAMPTON OAK W.T.P.

**DATE:** 4-1-2016  
**ATTN:** STEVE SHAW

**DECIPTION OF METERING EQUIPMENT:**

4" ABB WATER METER  
 MODEL #FET3251AOP183C1H1  
 SERIAL #3K620000175209

**TEST RUN # 1**

		APPOX RUN TIME	5:03	MINUTES		
SIEMENS SITRANS F	Appx. Flow	Totalized Flow	Customer Meter	Appx. Flow	Totalized Flow	Error %
FUP 1010	43.91 GPM	222.00 GAL	ABB	44.24 GPM	224 GALLONS	0.75%

**TEST RUN # 2**

		APPOX RUN TIME	5:03	MINUTES		
SIEMENS SITRANS F	Appx. Flow	Totalized Flow	Customer Meter	Appx. Flow	Totalized Flow	Error %
FUP 1010	29.22 GPM	147.60 GAL	ABB	28.11 GPM	142 GALLONS	-3.75%

**TEST RUN # 3**

		APPOX RUN TIME	5:03	MINUTES		
SIEMENS SITRANS F	Appx. Flow	Totalized Flow	Customer Meter	Appx. Flow	Totalized Flow	Error %
FUP 1010	92.17 GPM	466.00 GAL	ABB	88.01 GPM	445 GALLONS	-4.70%

**FINAL CHECK AFTER ADJUSMENT**

		APPOX RUN TIME				
SIEMENS SITRANS F	Appx. Flow	Totalized Flow	Customer Meter	Appx. Flow	Totalized Flow	Error %
FUP 1010						

**COMMENTS:** 4" STAINLESS STEEL PIPE, C2 HEADS REFLECT, PIPE O.D. = 4.500", WALL THICKNESS = 0.120  
 PIPE IS VERY SHORT, TRANSMITTER LOCATED INSIDE BUILDING (BACK WASH WASTE FLOW)  
 PIPE IS LOCATED OUTSIDE BY TANK.

**CALIBRATION PERFORMED BY:**   
 KEVIN VANG

**Elk Grove Water District**  
**Preventative Maintenance Program**  
 M.C.C. and Lab

Item	Quarterly				Annual	
	1st	2nd	3rd	4th	Refer.	2016
Fume Hood	Refer. AH 3/22/16 13869 Sect: 1.1.1				Sect: 1.2.3	
Dulco-meter	Refer. AH 3/22/16 13869 Sect: 1.1.2				Sect: 1.2.1	
M.C.C.						
Circuit Breaker					Sect: 1.2.2	
C12 DPD Handheld	Refer. AH 3/29/16 13869 Sect: 1.1.3					

Year: 2016

# Elk Grove Water District

## Preventative Maintenance Program

Backwash System and Storage Tanks

Item	MONTHLY												Semi-annual		Annual					
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	2016	Refer.	2016			
Mag meter																	WQ	4/1/16	13971	
MCC																				
Pressure Transducer																				
Backwash Tank																				
Return Pumps																				
Storage Tanks																				
Bray Valves																				

Item	Initials	Date	W.O. #
Mag meter			
MCC			
Pressure Transducer			
Backwash Tank			
Return Pumps			
Storage Tanks			
Bray Valves			

Item	Initials	Date	W.O. #
Mag meter			
MCC			
Pressure Transducer			
Backwash Tank			
Return Pumps			
Storage Tanks			
Bray Valves			

Year: 2016

# Elk Grove Water District

## Preventative Maintenance Program

### Booster Pumps

Item	Monthly												Semi-annual		Annual	
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	2016	
Electric Motor	Initials	WQ	AH	WQ	WQ									Sect: 3.1.1	Sect: 3.2.1	Sect: 3.3.3
	Date	1/20/16	2/17/16	3/24/16	4/13/16											
	W.O. #	13582	13746	13868	13967											
PUMP	Initials	WQ	AH	WQ	WQ									Sect: 3.1.2	Sect: 3.2.4	Sect: 3.3.1
	Date	1/20/16	2/17/16	3/24/16	4/13/16											
	W.O. #	13582	13746	13868	13967											
A.R.V.	Initials													Sect: 3.3.1	Sect: 3.3.1	Sect: 3.3.1
	Date															
	W.O. #															
Rising Stem Valve	Initials													Sect: 3.3.3	Sect: 3.3.3	Sect: 3.3.3
	Date															
	W.O. #															

Year: 2016

# Elk Grove Water District

## Preventative Maintenance Program

Clor-Tec System

Item	Monthly												Quarterly				Annual			
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1st	2nd	3rd		4th	Refer.	2016
Cl2 Meter System	Initials	WQ	WQ	WQ	WQ													4.4.1		
	Date	1/19/16	2/2/16	3/1/16	4/14/16															
	W.O. #	13581	13744	13866	13964															
Exhaust Fan	Initials													AH				4.3.1		
	Date													3/9/16						
	W.O. #													13748						
Hydrogen Blow/Det.	Initials																	4.2/4.3		
	Date																			
	W.O. #																			
Cell and Electrode	Initials																	4.3.2		
	Date																			
	W.O. #																			
Hypo/Brine Tank	Initials	WQ	WQ	WQ	WQ													4.4.5		
	Date	1/19/16	2/2/16	3/1/16	4/14/16															
	W.O. #	13581	13744	13866	13964															
Water Softener	Initials																	4.4.6		
	Date																			
	W.O. #																			
Rectifier	Initials	WQ	WQ	WQ	WQ													4.2.4		
	Date	1/19/16	2/2/16	3/1/16	4/14/16															
	W.O. #	13581	13744	13866	13964															
Clor-Tec Unit	Initials	WQ	WQ	WQ	WQ													4.2.2		
	Date	1/19/16	2/2/16	3/1/16	4/14/16															
	W.O. #	13581	13744	13866	13964															

Year: 2016

# Elk Grove Water District

## Preventative Maintenance Program

### Filter Vessels

Item	Monthly												Semi-annual		Annual								
	Refer	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer	2016	Refer	2016						
Air/Vac Valves	Initials													Date					W.O. #				
Bray Valves	Initials													Date					W.O. #				
CLA-VAL	Initials													Date					W.O. #				
Pilot Valves	Initials													Date					W.O. #				
	Initials													Date					W.O. #				
Press. Diff. Trnsdcr.	Initials													Date					W.O. #				
	Initials													Date					W.O. #				
Vessels	Initials													Date					W.O. #				
	Initials													Date					W.O. #				

Year: 2016

# Elk Grove Water District

## Preventative Maintenance Program

Standby Generator

Item	Monthly												Semi-annual		Annual/Biannual				
	Refer	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer	1ST 6-MO.	2ND 6-MO.	Refer	2016	
<b>Fuel Tank</b>	6.1.1	WQ 1/5/16 13583	WQ 2/2/16 13743	WQ 3/23/16 13864	WQ 4/6/16 13968									6.2.1			6.3.1		
<b>Radiator</b>														6.2.2			6.3.2/6.4.1	WQ 4/19/16 13977	
<b>Battery/Charger</b>	6.1.2	WQ 1/5/16 13583	WQ 2/2/16 13743	WQ 3/23/16 13864	WQ 4/6/16 13968														
<b>Coolant Heater</b>																	6.3.3	WQ 4/19/16 13977	
<b>Generator</b>	6.1.3	WQ 1/5/16 13583	WQ 2/2/16 13743	WQ 3/23/16 13864	WQ 4/6/16 13968														
<b>Engine</b>														6.2.3			6.3.4/6.4.2	WQ 4/19/16 13977	



Year: 2016

# Elk Grove Water District

## Preventative Maintenance Program

Well 1D School

Item	Monthly												Semi-annual		Annual			
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	2ND 6-MO.	Refer.	2016	
Pump	Initials	WQ	WQ	WQ	WQ													
	Date	1/6/16	2/5/16	3/21/16	4/4/16													
	W.O.#	13592	13740	13878	13963									Sect:	13.2.1			
Motor	Initials	WQ	WQ	WQ	WQ													
	Date	1/6/16	2/5/16	3/21/16	4/4/16													
	W.O.#	13592	13740	13878	13963									Sect:	13.2.2			
Press/Lvl Transducer	Initials																	
	Date																	
	W.O.#																	
Isolation Valves	Initials																	
	Date																	
	W.O.#																	
Cl-Val	Initials																	
	Date																	
	W.O.#																	
Mag-Meter	Initials																	
	Date																	
	W.O.#																	
A.R.V.	Initials																	
	Date																	
	W.O.#																	
M.C.C.	Initials																	
	Date																	
	W.O.#																	
	Sect:													Sect:				
	Sect:													Sect:				
	Sect:													Sect:				
	Sect:													Sect:				
	Sect:													Sect:				

# Elk Grove Water District

## Preventative Maintenance Program

Well 4D Webb

Item	Monthly												Semi-annual		Annual			
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1ST 6-MO.	2ND 6-MO.	Refer.	2016
<b>Pump</b>	Initials Date W.O. #	WQ 1/21/16 13593	AH 13742	WQ 3/15/16 13875	WQ 4/11/16 13958									Sect: 8.2.1				
<b>Motor</b>	Initials Date W.O. #	WQ 1/21/16 13593	AH 13742	WQ 3/15/16 13875	WQ 4/11/16 13958									Sect: 8.2.2				
<b>Transdr. Press/Lvl</b>	Initials Date W.O. #																	
<b>Isolation Valves</b>	Initials Date W.O. #																	
<b>Cla-Val</b>	Initials Date W.O. #																	
<b>Mag-Meter</b>	Initials Date W.O. #																	
<b>A.R.V.</b>	Initials Date W.O. #																	
<b>M.C.C.</b>	Initials Date W.O. #																	
<b>Portable Generator</b>	Initials Date W.O. #	WQ 1/21/16 13593	AH 13742	WQ 3/15/16 13875	WQ 4/11/16 13958									Sect: 8.1.3				
<b>Generator Set</b>	Initials Date W.O. #																	

=Well Offline

# Elk Grove Water District

## Preventative Maintenance Program

Well 11D Dino

Item	Monthly												Semi-annual		Annual				
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1ST 6-MO.	2ND 6-MO.	Refer.	2016	
<b>Pump</b>	Initials Date W.O. #	WQ 1/7/16 13591	AH 2/18/16 13741	WQ 3/16/16 13874	AH 13957									Sect: 9.1.1	Sect: 9.2.1				
<b>Motor</b>	Initials Date W.O. #	WQ 1/7/16 13591	AH 2/18/16 13741	WQ 3/16/16 13874	AH 13957									Sect: 9.1.2	Sect: 9.2.2				
<b>Press/LV Transdr.</b>	Initials Date W.O. #																		
<b>Isolation Valves</b>	Initials Date W.O. #																		
<b>Cla-Val</b>	Initials Date W.O. #																		
<b>Mag-Meter</b>	Initials Date W.O. #																		
<b>A.R.V.</b>	Initials Date W.O. #																		
<b>M.C.C.</b>	Initials Date W.O. #																		
<b>Portable Generator</b>	Initials Date W.O. #	WQ 1/7/16 13591	AH 2/18/16 13741	WQ 3/16/16 13874	AH 13957									Sect: 9.1.3	Sect: 9.2.4		Section: 9.3.7/9.4.1		
<b>Generator Set</b>	Initials Date W.O. #																	Section: 9.4.2	

=Well Offline

# Elk Grove Water District

## Preventative Maintenance Program

Well 14D Railroad

Item	Monthly												Semi-annual		Annual							
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1ST 6-MO.	2ND 6-MO.	Refer.	2016				
	Initials	Date	W.O.#	Initials	Date	W.O.#	Initials	Date	W.O.#	Initials	Date	W.O.#	Initials	Date	W.O.#	Initials	Date	W.O.#	Initials	Date	W.O.#	
<b>Pump</b>	7.1.1	WQ 1/5/16 13589	WQ 2/3/16 13739	WQ 3/22/16 13879	WQ 4/5/16 13962									7.2.1			7.3.2					
<b>Motor</b>	7.1.2	WQ 1/5/16 13589	WQ 2/3/16 13739	WQ 3/22/16 13879	WQ 4/5/16 13962									7.2.2			7.3.6					
<b>Press/Lvl Transdr.</b>																						
<b>Isolation Valves</b>																						
<b>Cla-Val</b>																						
<b>Mag-Meter</b>																						
<b>A.R.V.</b>																						
<b>M.C.C.</b>																						

# Elk Grove Water District

## Preventative Maintenance Program

WELL 3 MAR-VAL

Item	Monthly												Quarterly				Semi-annual				Annual							
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1st	2nd	3rd	4th	Refer.	1st	6-2ND	6-	Refer.	2016				
	Section:	Initials	Date	W.O. #	Initials	Date	W.O. #	Initials	Date	W.O. #	Initials	Date	W.O. #	Initials	Date	W.O. #	Initials	Date	W.O. #	Initials	Date	W.O. #	Initials	Date	W.O. #			
Motor	12.1.2	WQ 1/13/16 13586	AH/WQ 2/24/16 13737	WQ 3/22/16 13876	WQ 4/12/16 13961																							
Pump	12.1.1	WQ 1/13/16 13586	AH/WQ 2/24/16 13737	WQ 3/22/16 13876	WQ 4/12/16 13961																							
Chlorine Pump																												
Air Changer																												
Check Valve																												
A.R.V.																												
M.C.C.																												
Pneumat Tank																												
Isolation Valves																												
Propeller Meter																												

# Elk Grove Water District

## Preventative Maintenance Program

Well 8 Williamson

Item	Monthly												Quarterly				Semi-annual				Annual				
	Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Refer.	1st	2nd	3rd	4th	Refer.	1st	6- MO.	2ND 6- MO.	Refer.	2016	
Motor	Section: 11.1.2	AH 1/13/16 13587	AH 2/18/16 13738	WQ/MW 3/23/16 13872	AH 4/11/16 13959									Section: 11.1.2					Section: 11.3.2				Section: 11.3.2		
Pump	Section: 11.1.1	AH 1/13/16 13587	AH 2/18/16 13738	WQ/MW 3/23/16 13872	AH 4/11/16 13959									Section: 11.1.1					Section: 11.3.1				Section: 11.3.1		
Chlorine Pump														Section: 11.2.1	WQ/MW 3/23/16 13873				Section: 11.2.1				Section: 11.2.1		
Air Changer														Section: 11.2.2	WQ/MW 3/23/16 13873				Section: 11.2.2				Section: 11.2.2		
Check Valve														Section: 11.3.3					Section: 11.3.3				Section: 11.3.3		
A.R.V.														Section: 11.3.4					Section: 11.3.4				Section: 11.3.4		
M.C.C.														Section: 11.4.1					Section: 11.4.1				Section: 11.4.1		
Pneumat Tank														Section: 11.2.3	WQ/MW 3/23/16 13873				Section: 11.2.3				Section: 11.2.3		
Isolation Valves														Section: 11.4.3					Section: 11.4.3				Section: 11.4.3		
Propeller Meter														Section: 11.4.2					Section: 11.4.2				Section: 11.4.2		

Year: 2016

# Elk Grove Water District

## Preventative Maintenance Program

Well 9 Polhemus

Item	Check Valve	Monthly												Quarterly				Annual				
		Refer.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1st	2nd	3rd	4th	Refer.	2016		
Propeller Meter	Initials Date W.O. #																					
Pneumat Tank	Initials Date W.O. #																					
M.C.C.	Initials Date W.O. #																					
A.R.V.	Initials Date W.O. #																					
Isolation Valves	Initials Date W.O. #																					
Air Changer	Initials Date W.O. #																					
Chlorine Pump	Initials Date W.O. #	Sec: TBD	WQ 1/11/16 13588	WQ 2/4/16 13736	WQ 3/22/16 13870	WQ 4/7/16 13960																

Elk Grove Water District  
Backflow Prevention Program 2016

Backflow Device Reports	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<b>CURRENT</b>												
Notices Issued	21	38	74	12								
Pass:	12	38	61	11								
Fail:	0	0	4	1								
Failed Devices Retested----Passed			3	1								
Outstanding Results Due	9	0	10	0								

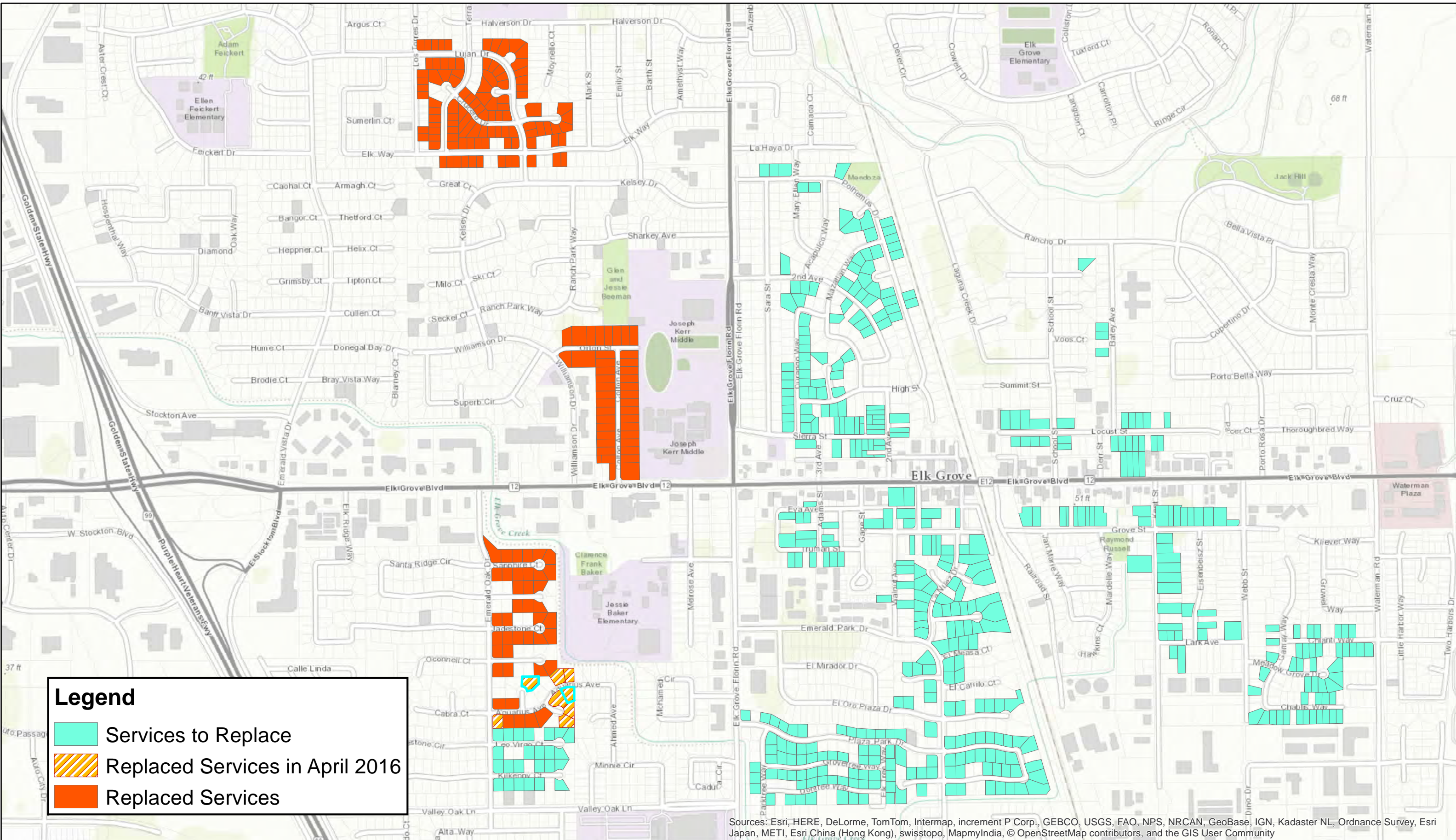
DELINQUENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Investigations												
Deactivated Devices												
Sent:	9	0	9	0								
Received:	9	0	8	0								
Sent:			2									
Received:			0									
Schedule Code Changed												
Outstanding Delinquents												
Carryover from 2015	0		2	0								

<b>Total Outstanding Delinquents</b>	<b>2</b>
--------------------------------------	----------



Elk Grove Water District  
 Safety Meetings/Training  
 Apr-16

Date:	Topic:	Attendees:	Hosted By:
4/4/2016	Setting Up a Safe Traffic Control Zone	Jose C, Jose M, John V, Sean, Michael, Justin, Richard, Alan, Chris, Sal, Steve, Aaron, Travis, Wilfredo, David, William	Steve Shaw
4/11/2016	Focus Mentally To Avoid Distracted Work	Jose C, Jose M, John V, John D, Sean, Michael, Justin, Richard, Alan, Chris, Sal, Brandon, Steve, Aaron, Travis, Wilfredo, Marcel, David, William	Steve Shaw
4/18/2016	Hazard Communication Safety Data Sheets (SDSs)	Jose C, Jose M, John V, John D, Sean, Michael, Justin, Richard, Alan, Sal, Brandon, Steve, Aaron, Travis, Wilfredo, Marcel, David	Steve Shaw
4/25/2016	Lockout/Tagout: Water Under Pressure Poses Danger	Jose C, Jose M, John V, John D, Sean, Michael, Justin, Richard, Alan, Chris, Sal, Steve, Aaron, Travis, Wilfredo, Marcel, David, William	Steve Shaw
4/28/2016	Heat Illness	All Staff Required to Attend	Erick Watkins



**Legend**

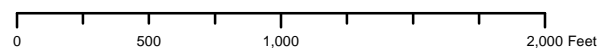
- Services to Replace
- Replaced Services in April 2016
- Replaced Services

Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

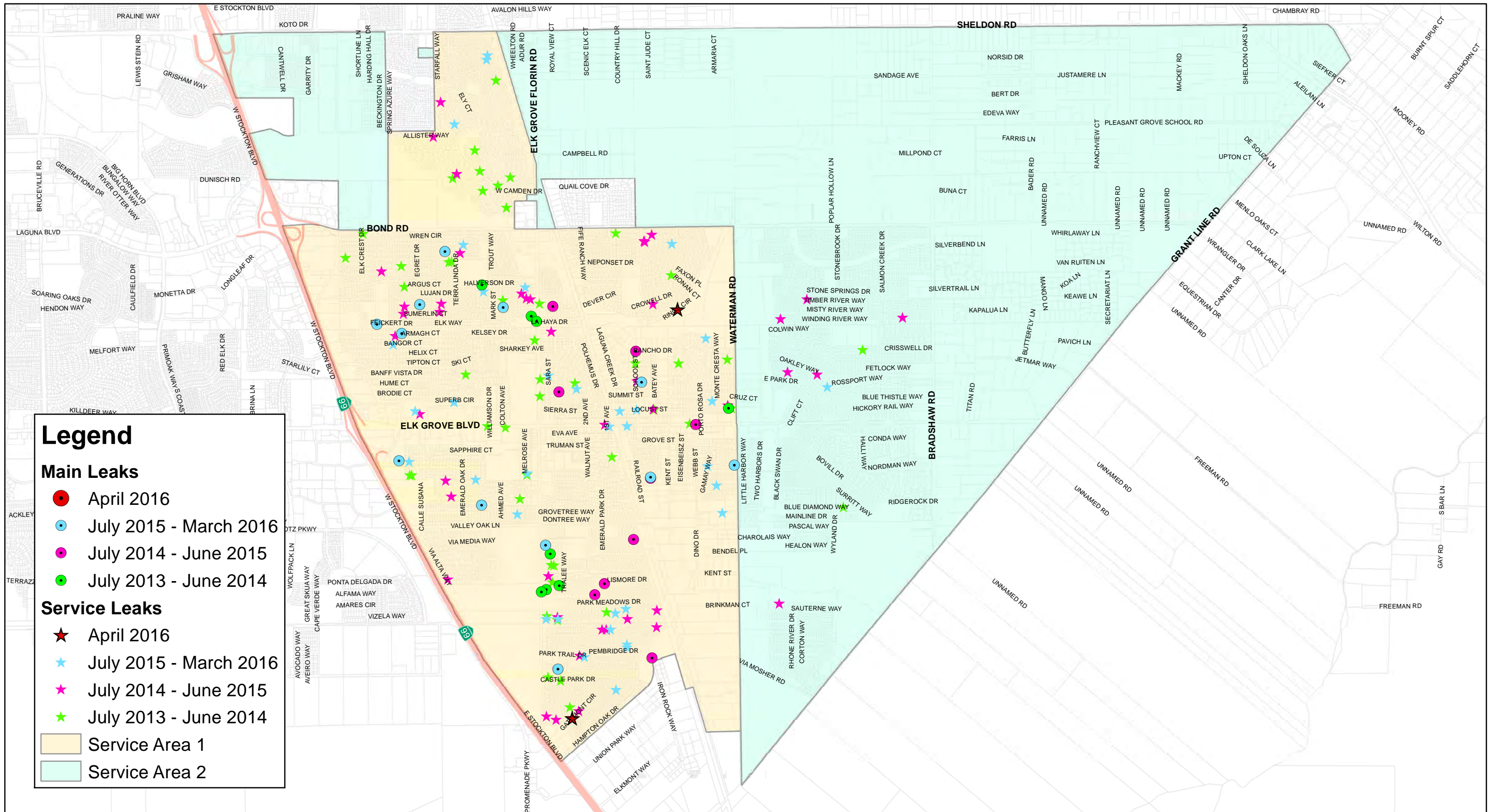
Services to Replace: 431
Services Replaced in April 2016: 8
Total Service Replaced: 191



### Elk Grove Water District Service Line Replacement



Projected Coordinate System: NAD 83 State Plane, California II, FIPS 0420
Source: City of Elk Grove, EGWD and Sacramento County GIS databases
Created by: Travis Franklin
Date: May 10, 2016



**Legend**

**Main Leaks**

- April 2016
- July 2015 - March 2016
- July 2014 - June 2015
- July 2013 - June 2014

**Service Leaks**

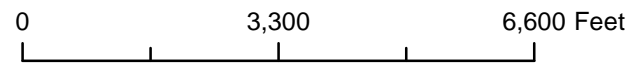
- ★ April 2016
- ★ July 2015 - March 2016
- ★ July 2014 - June 2015
- ★ July 2013 - June 2014

- Service Area 1
- Service Area 2

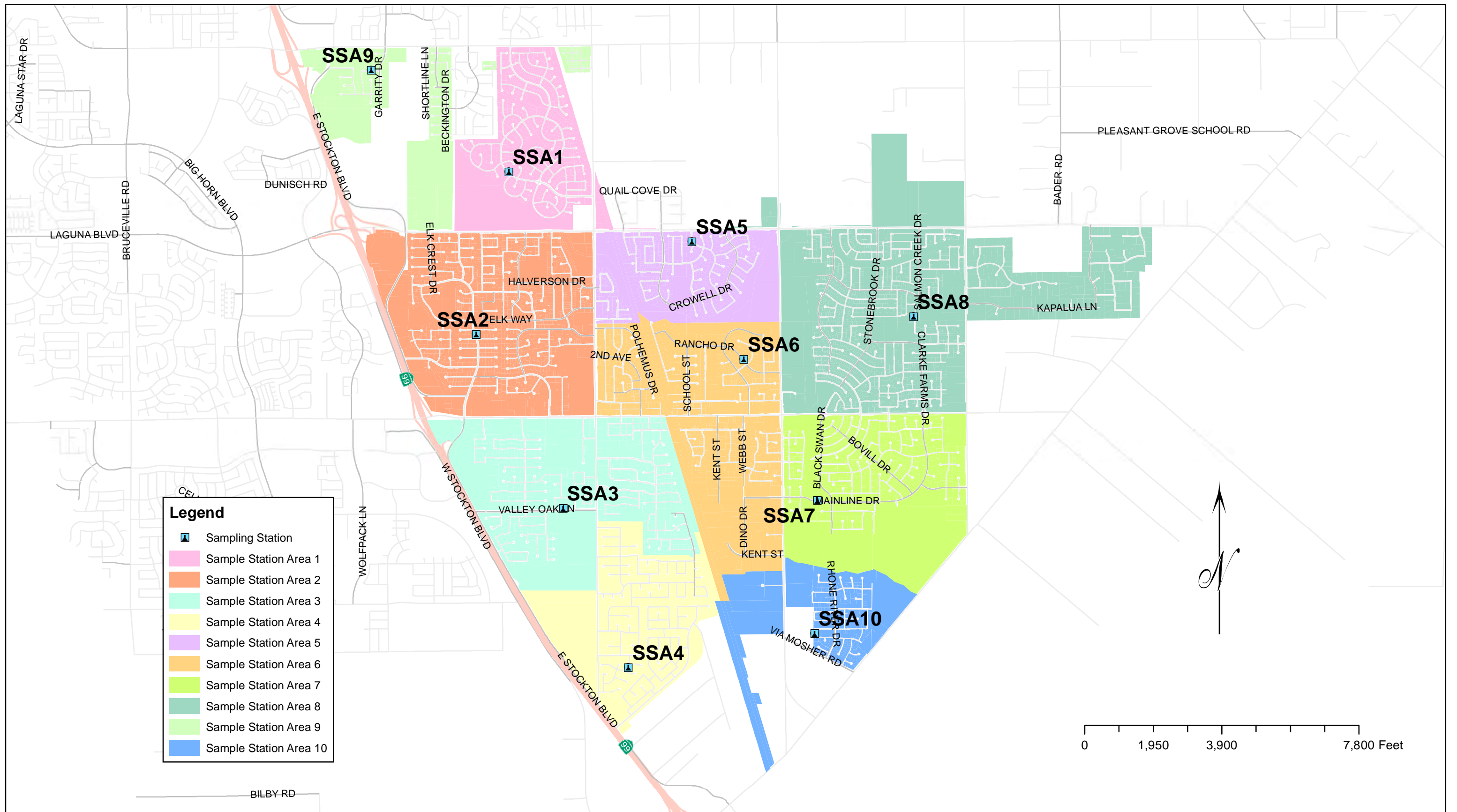
April 2016	
Main Line Leaks: 0	YTD: 12
Service Line Leaks: 2	YTD: 38
Total Leaks: 2	YTD: 50














**Elk Grove Water District  
Service and Main Leaks Map**

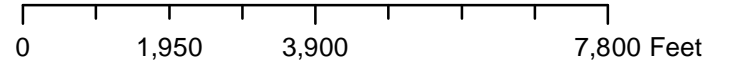


Elk Grove Water District
Service / Main Leaks
Created by: Travis Franklin
Date: May 9, 2016



**Legend**

-  Sampling Station
-  Sample Station Area 1
-  Sample Station Area 2
-  Sample Station Area 3
-  Sample Station Area 4
-  Sample Station Area 5
-  Sample Station Area 6
-  Sample Station Area 7
-  Sample Station Area 8
-  Sample Station Area 9
-  Sample Station Area 10



**Sample Stations: 10**



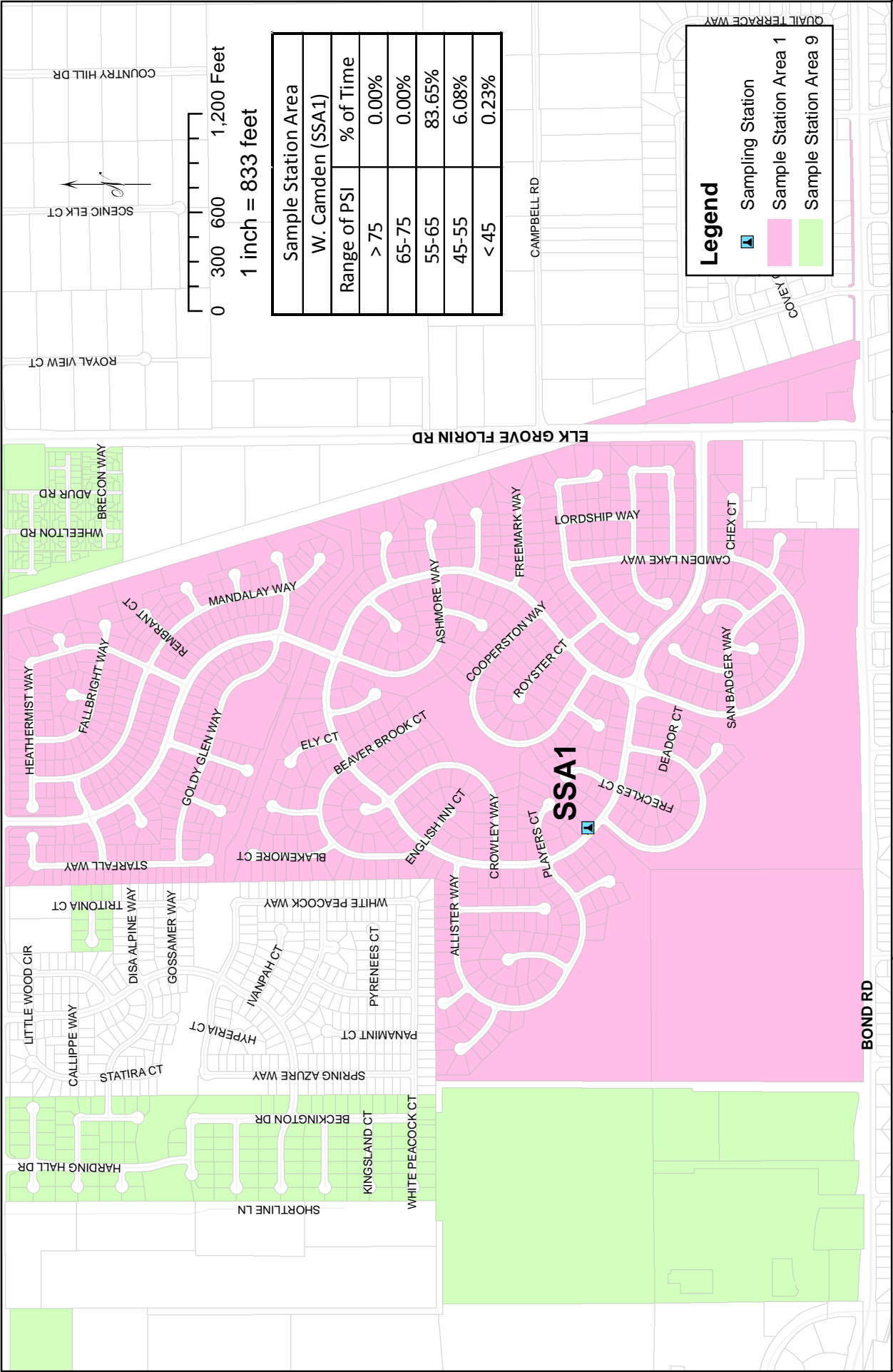
**Elk Grove Water District**  
Sample Station Areas

Projected Coordinate System: NAD 83 State Plane CA II FIPS 0402

Source: EGWD GIS database

Modified by: Travis Franklin

May 5, 2016



Projected Coordinate System:  
 NAD 83 State Plane CA II FIPS 0402  
 Source:EGWD GIS database  
 Created by: Travis Franklin  
 May 5, 2016

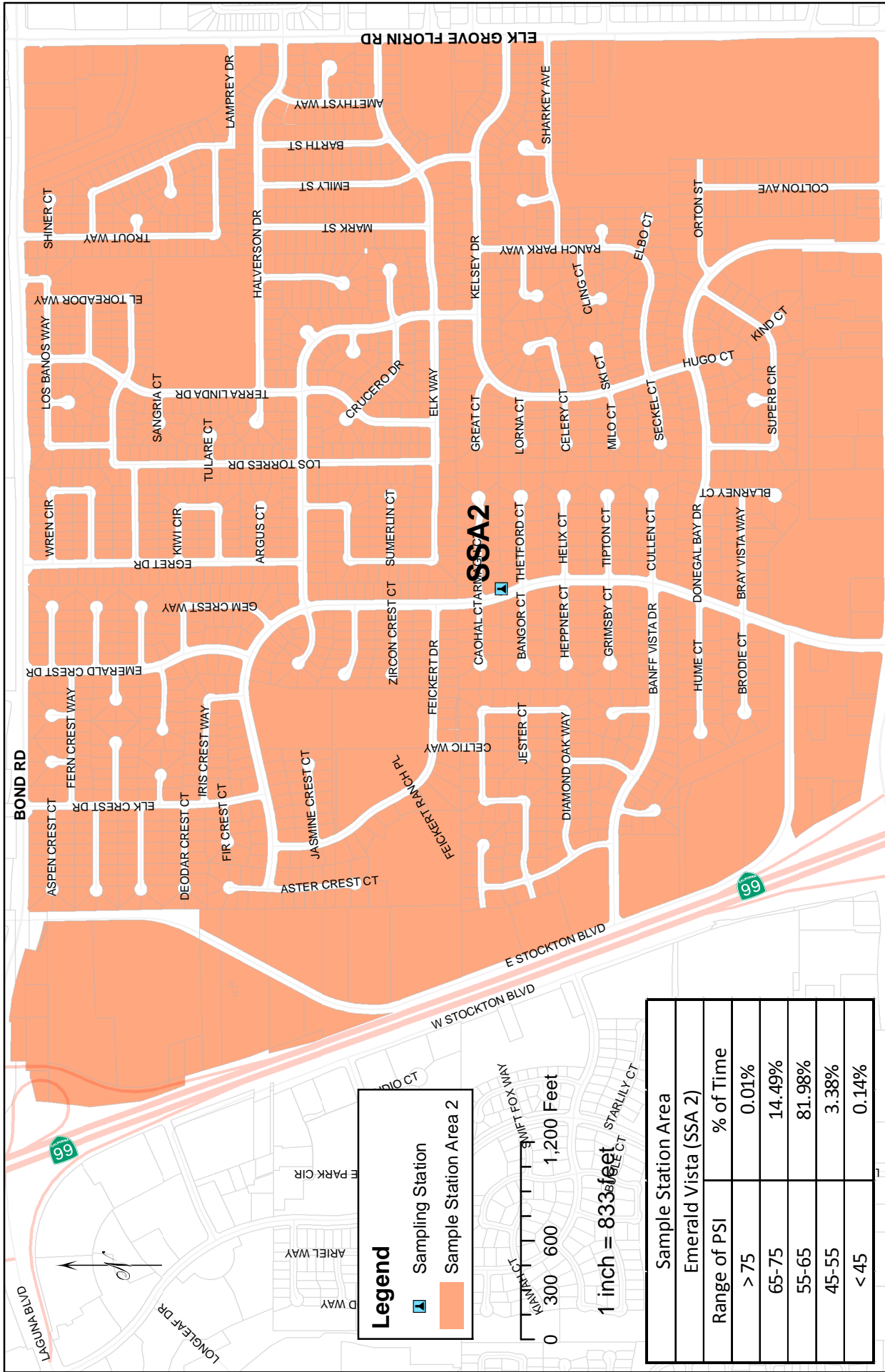
## Elk Grove Water District

### System Pressure Monitoring

**Sample Station #1**

Note: Sample Station takes a reading every 5 minutes.

April 2016



**Legend**

- Sampling Station
- Sample Station Area 2



Sample Station Area	% of Time
Emerald Vista (SSA 2)	
Range of PSI	
> 75	0.01%
65-75	14.49%
55-65	81.98%
45-55	3.38%
< 45	0.14%

**Sample Station #2**

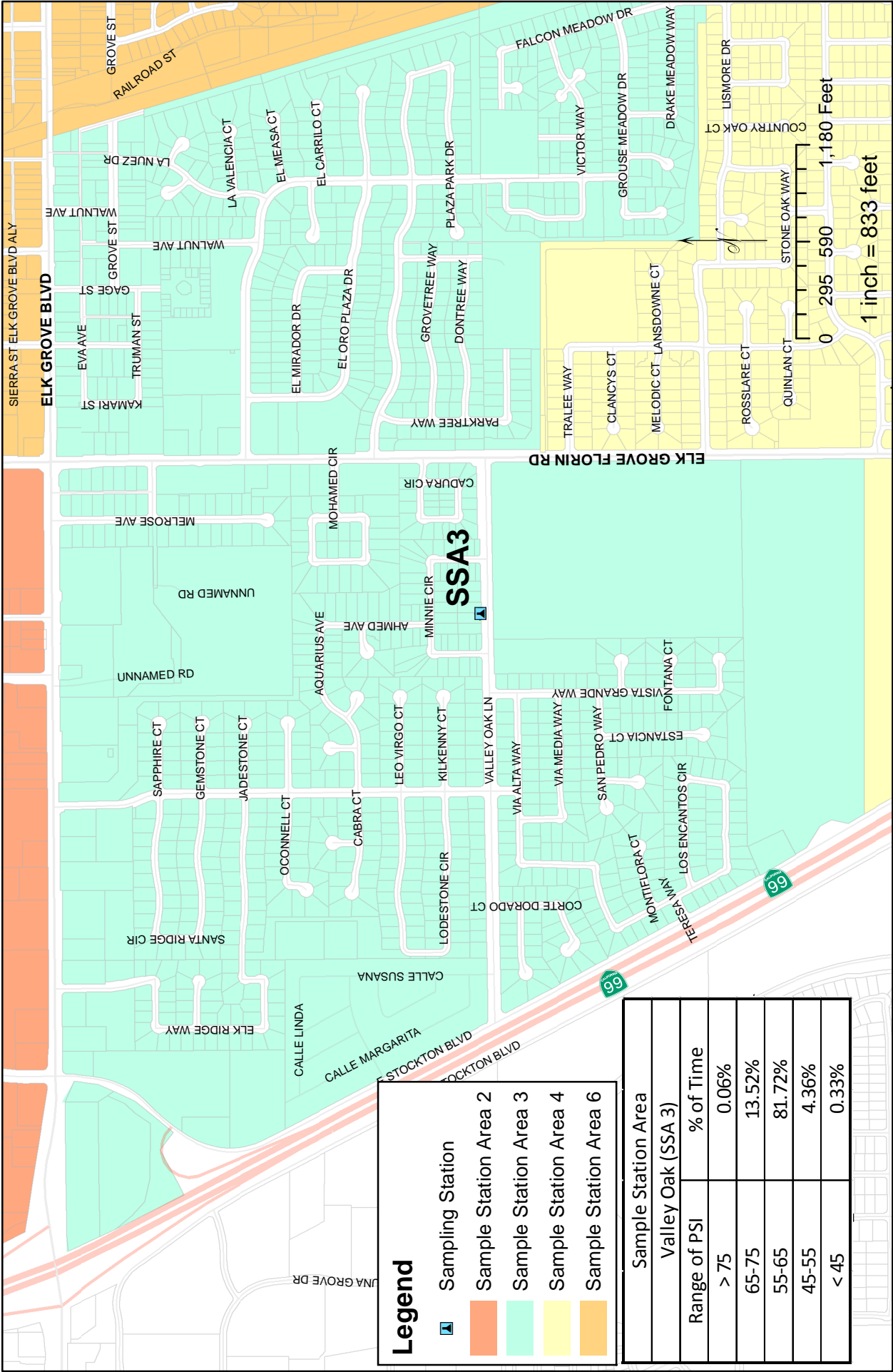
Note: Sample Station takes a reading every 5 minutes.

April 2016



**Elk Grove Water District  
System Pressure Monitoring**

Projected Coordinate System:  
NAD 83 State Plane CA II FIPS 0402  
Source: EGWD GIS database  
Created by: Travis Franklin  
May 5, 2016



**Legend**

- Sampling Station
- Sample Station Area 2
- Sample Station Area 3
- Sample Station Area 4
- Sample Station Area 6

Sample Station Area	Valley Oak (SSA 3)	Range of PSI	% of Time
> 75	0.06%	65-75	13.52%
55-65	81.72%	45-55	4.36%
< 45	0.33%		

## Elk Grove Water District

### System Pressure Monitoring

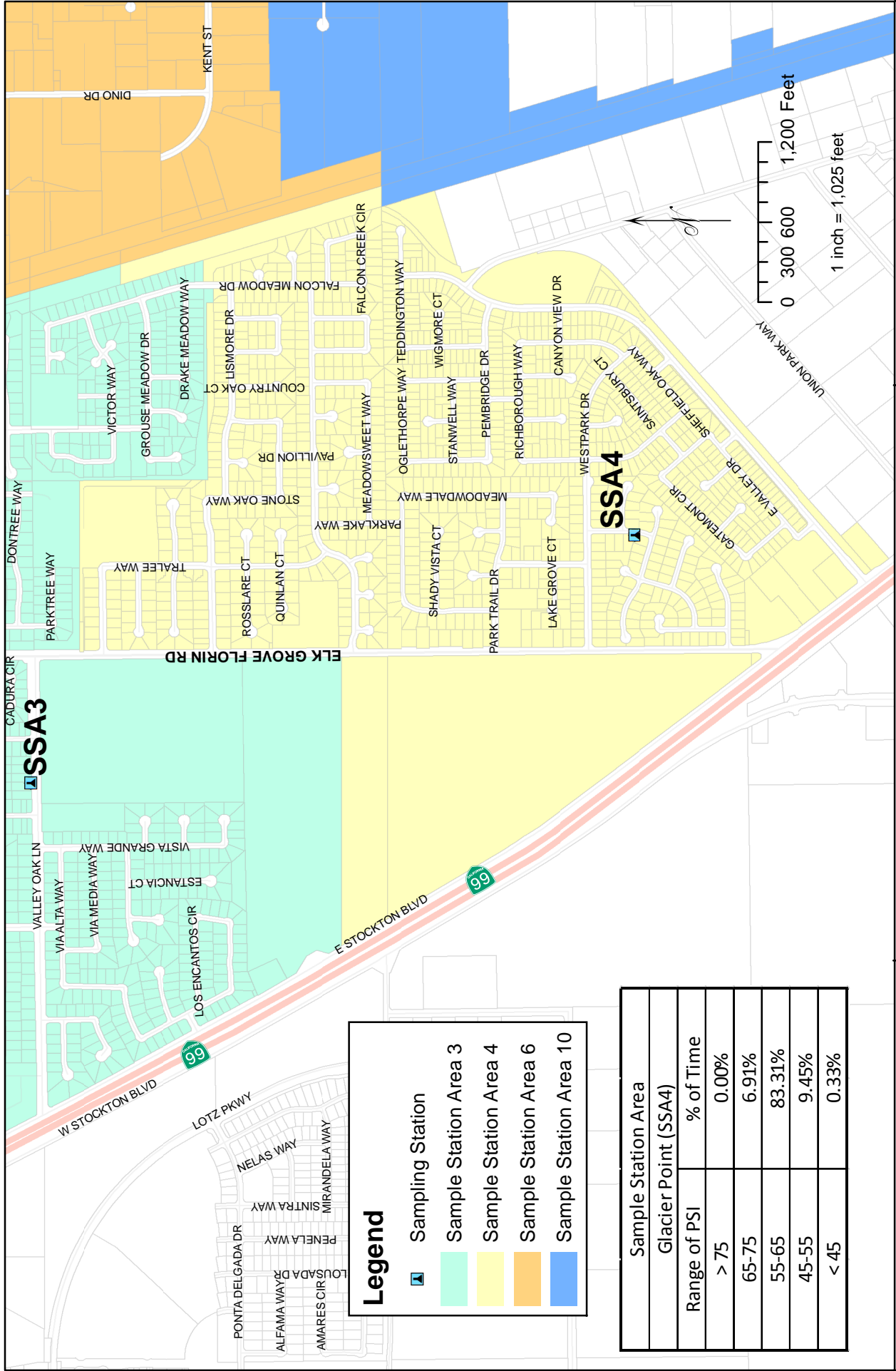


**Sample Station #3**

**Note:** Sample Station takes a reading every 5 minutes.

April 2016

Projected Coordinate System:  
 NAD 83 State Plane CA II FIPS 0402  
 Source: EGWD GIS database  
 Created by: Travis Franklin  
 May 5, 2016



**Legend**

- Sampling Station
- Sample Station Area 3
- Sample Station Area 4
- Sample Station Area 6
- Sample Station Area 10

Sample Station Area	Glacier Point (SSA4)
Range of PSI	% of Time
> 75	0.00%
65-75	6.91%
55-65	83.31%
45-55	9.45%
< 45	0.33%



Projected Coordinate System:  
NAD 83 State Plane CA II FIPS 0402  
Source: EGWD GIS database  
Created by: Travis Franklin  
May 5, 2016

## Elk Grove Water District

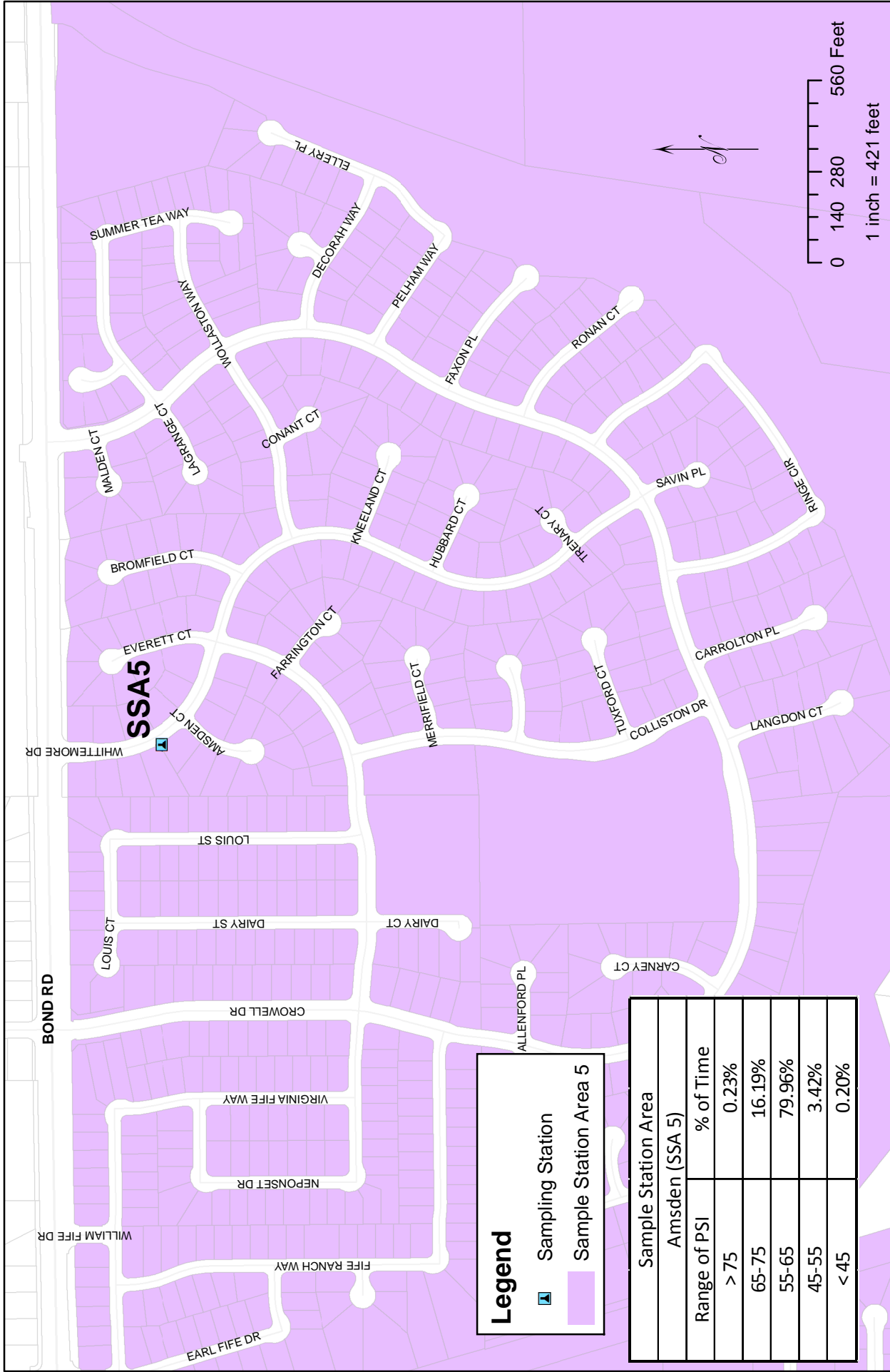
### System Pressure Monitoring

**Sample Station #4**



Note: Sample Station takes a reading every 5 minutes.

April 2016





**Legend**

-  Sampling Station
-  Sample Station Area 5

Sample Station Area	
Amsden (SSA 5)	
Range of PSI	% of Time
> 75	0.23%
65-75	16.19%
55-65	79.96%
45-55	3.42%
< 45	0.20%

**Sample Station #5**

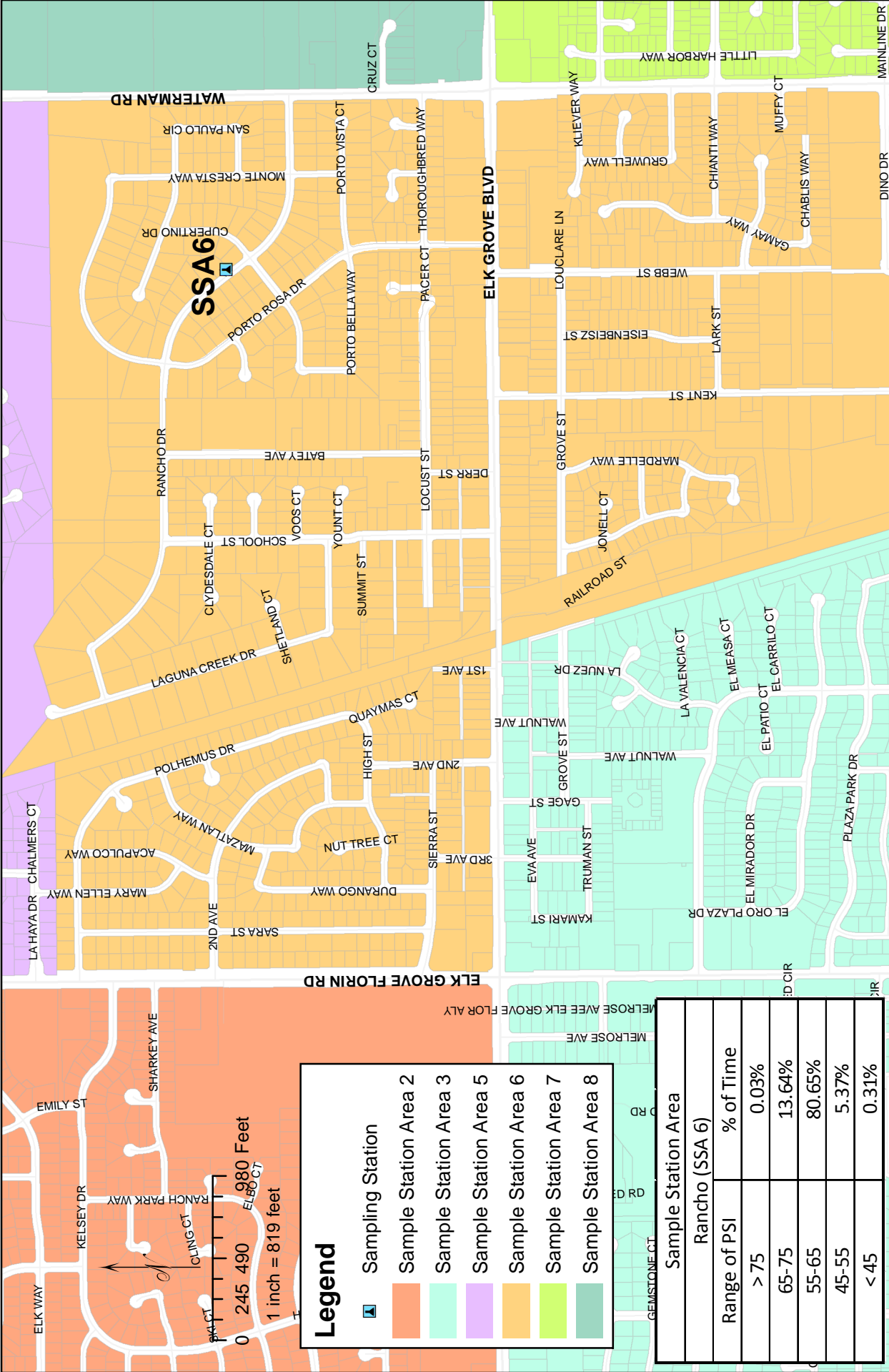
Notes: Sample Station takes a reading every 5 minutes.

April 2016



**Elk Grove Water District**  
**System Pressure Monitoring**

Projected Coordinate System:  
 NAD 83 State Plane CA II FIPS 0402  
 Source: EGWD GIS database  
 Created by: Travis Franklin  
 May 5, 2016



Legend	
	Sampling Station
	Sample Station Area 2
	Sample Station Area 3
	Sample Station Area 5
	Sample Station Area 6
	Sample Station Area 7
	Sample Station Area 8

Sample Station Area	
Rancho (SSA 6)	
Range of PSI	% of Time
> 75	0.03%
65-75	13.64%
55-65	80.65%
45-55	5.37%
< 45	0.31%

**Sample Station #6**

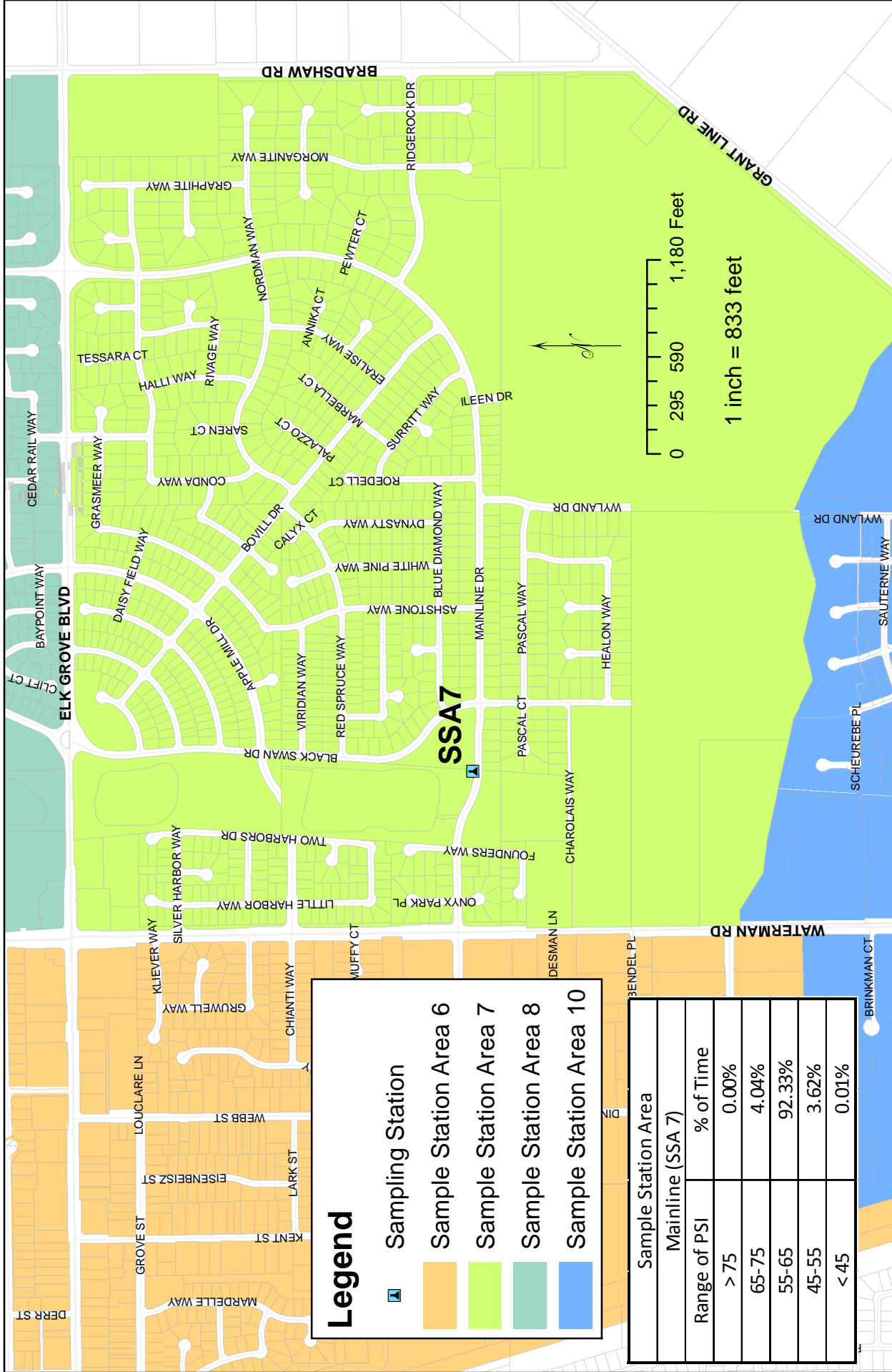
Note: Sample Station takes a reading every 5 minutes.

April 2016



**Elk Grove Water District**  
System Pressure Monitoring

Projected Coordinate System:  
NAD 83 State Plane CA II FIPS 0402  
Source: EGWD GIS database  
Created by: Travis Franklin  
May 5, 2016



Projected Coordinate System:  
 NAD 83 State Plane CA II FIPS 0402  
 Source: EGWD GIS database  
 Created by: Travis Franklin  
 May 5, 2016

## Elk Grove Water District

### System Pressure Monitoring



**Legend**

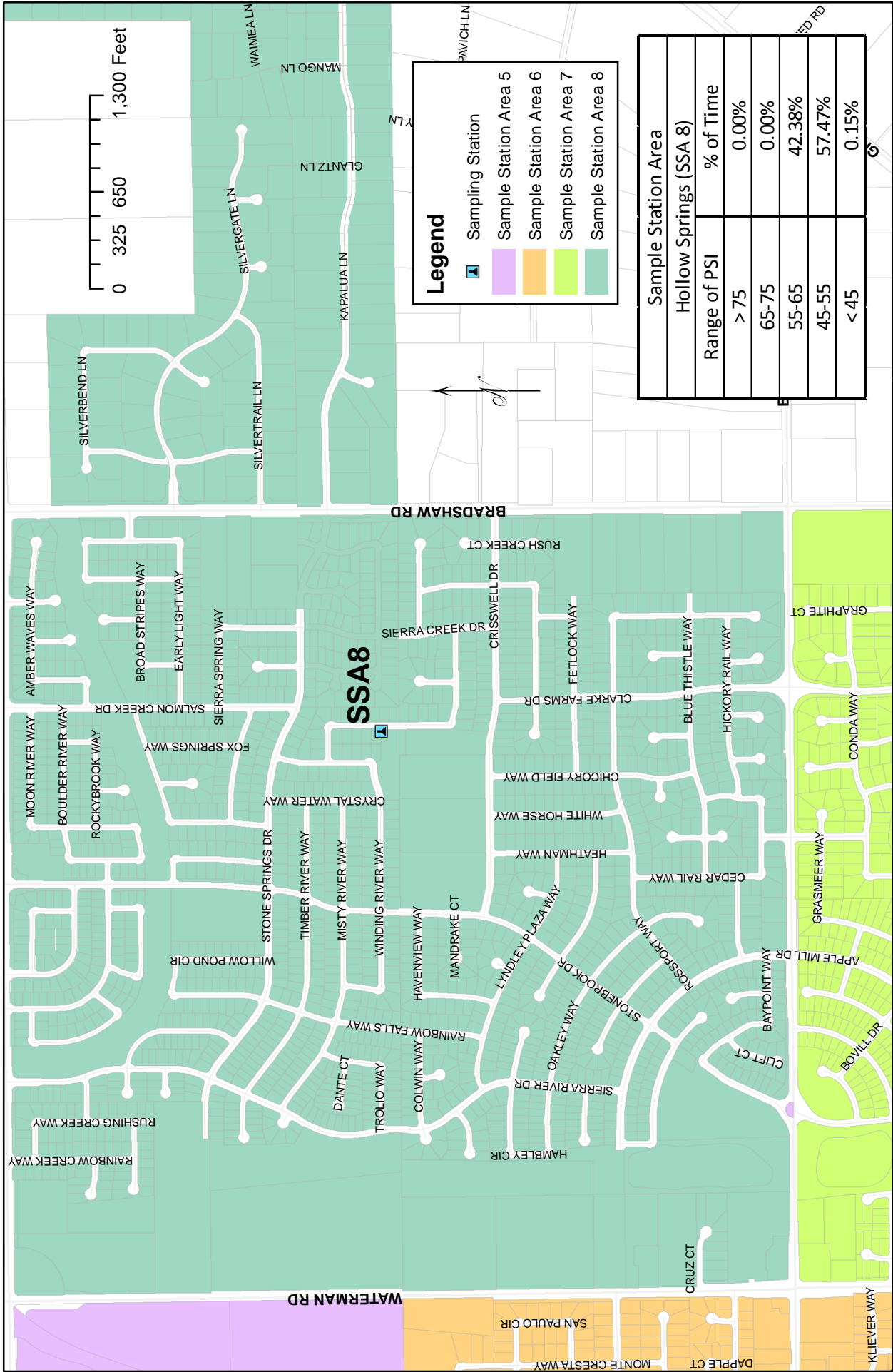
- Sampling Station
- Sample Station Area 6
- Sample Station Area 7
- Sample Station Area 8
- Sample Station Area 10

Sample Station Area	Mainline (SSA 7)
Range of PSI	% of Time
> 75	0.00%
65-75	4.04%
55-65	92.33%
45-55	3.62%
< 45	0.01%

**Sample Station #7**

Note: Sample Station takes a reading every 5 minutes.

April 2016



**Legend**

- Sampling Station
- Sample Station Area 5
- Sample Station Area 6
- Sample Station Area 7
- Sample Station Area 8

Sample Station Area	Hollow Springs (SSA 8)	Range of PSI	% of Time
		> 75	0.00%
		65-75	0.00%
		55-65	42.38%
		45-55	57.47%
		< 45	0.15%

Projected Coordinate System:  
 NAD 83 State Plane CA II FIPS 0402  
 Source: EGWD GIS database  
 Created by: Travis Franklin  
 May 5, 2016

## Elk Grove Water District

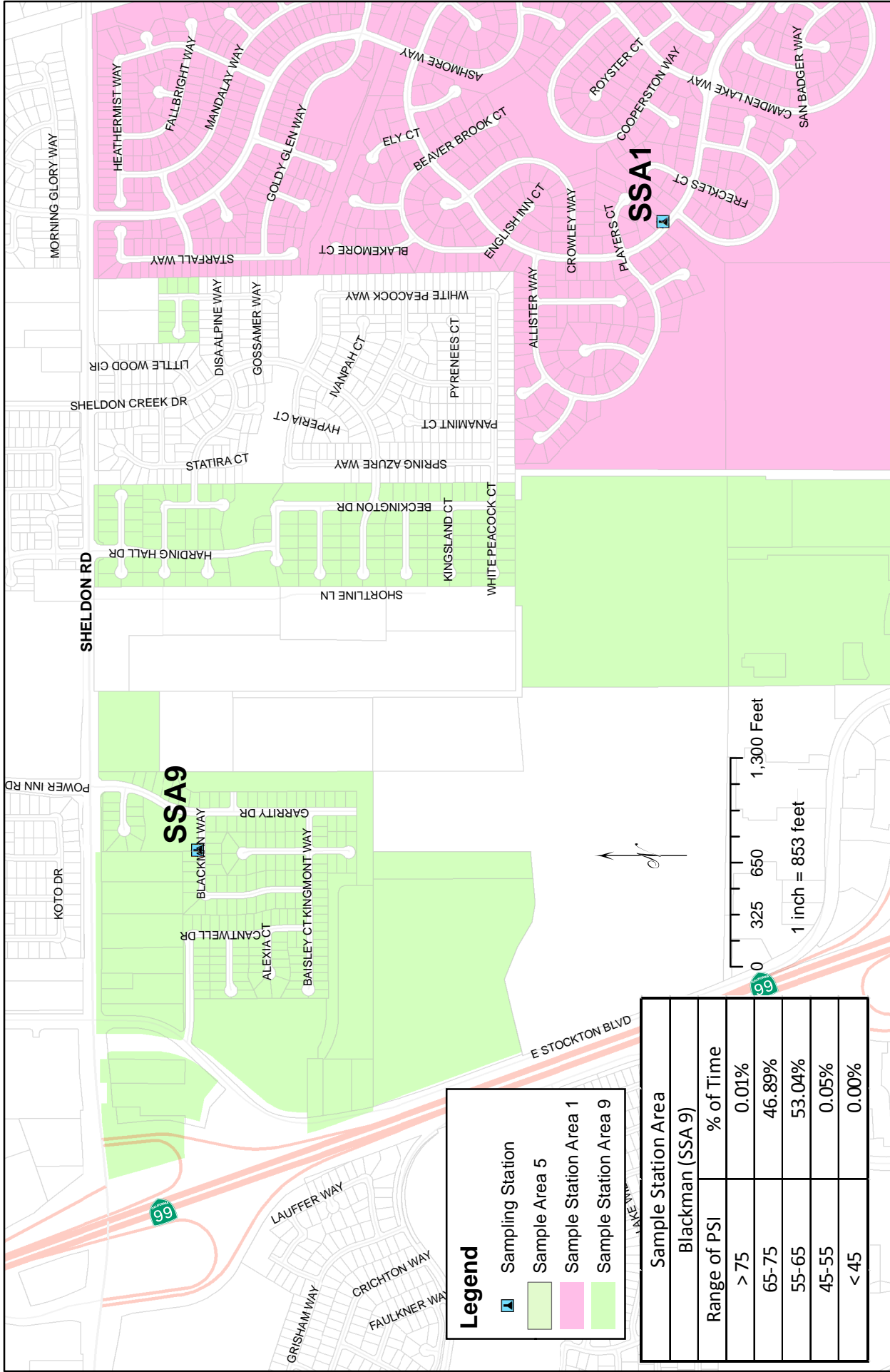
### System Pressure Monitoring



**Sample Station #8**

**Note:** Sample Station takes a reading every 5 minutes.

April 2016



**Legend**

- Sampling Station
- Sample Area 5
- Sample Station Area 1
- Sample Station Area 9

Sample Station Area	Blackman (SSA 9)	Range of PSI	% of Time
> 75	0.01%	65-75	46.89%
55-65	53.04%	45-55	0.05%
< 45	0.00%		

**Sample Station #9**

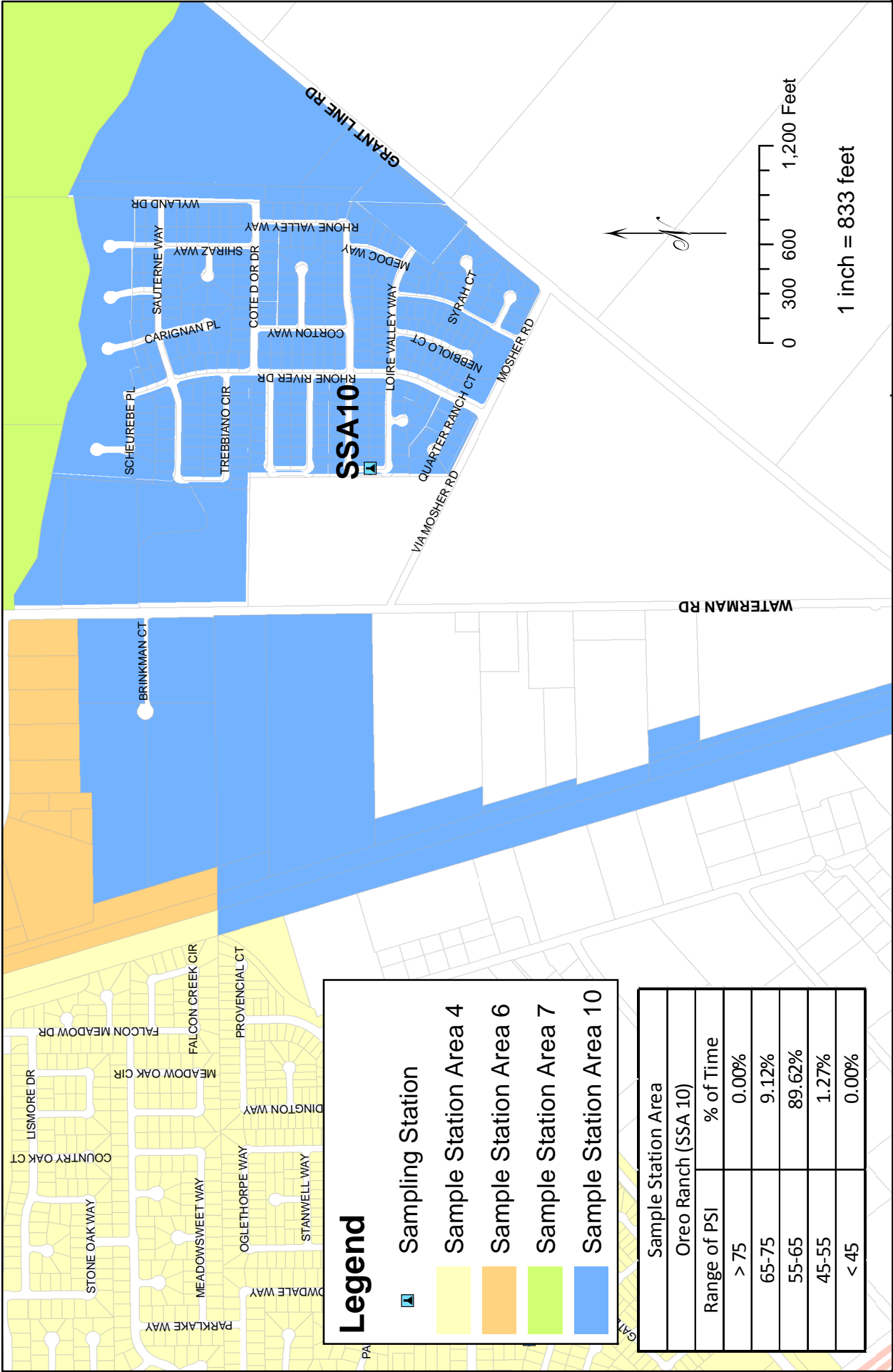
Note: Sample Station takes a reading every 5 minutes.

April 2016








**Elk Grove Water District**  
System Pressure Monitoring

Projected coordinate system:  
NAD 83 State Plane CA II FIPS 0402  
Source: EGWD GIS database  
Created by: Travis Franklin  
May 5, 2016



**Legend**

-  Sampling Station
-  Sample Station Area 4
-  Sample Station Area 6
-  Sample Station Area 7
-  Sample Station Area 10

Sample Station Area	Range of PSI	% of Time
Oreo Ranch (SSA 10)	> 75	0.00%
	65-75	9.12%
	55-65	89.62%
	45-55	1.27%
	< 45	0.00%



**Elk Grove Water District**  
System Pressure Monitoring

Projected Coordinate System:  
NAD 83 State Plane CA II FIPS 0402  
Source: EGWD GIS database  
Created by: Travis Franklin  
May 5, 2016

**Sample Station #10**

Note: Sample Station takes a reading every 5 minutes.

April 2016

May 25, 2016

TO: Chairman and Directors of the Florin Resource Conservation District  
FROM: Mark J. Madison, General Manager  
SUBJECT: **GENERAL MANAGER'S REPORT**

---

### **RECOMMENDATION**

This item is presented for information only. No action by the Board is proposed at this time.

### **Summary**

The Board requested a monthly summary of activities performed by the General Manager on behalf of the Florin Resource Conservation District (FRCD) and the Elk Grove Water District (EGWD). This report is provided in compliance with that request and no action is requested of the Board at this time.

### **DISCUSSION**

#### **Background**

At the March 23, 2016 Board meeting, the Board requested the General Manager to include a General Manager's Report as part of the agenda for every regular FRCD Board meeting. More specifically, it was requested that this report include a listing of the General Manager's various activities involving the FRCD and the EGWD.

#### **Present Situation**

This report has been structured to inform the Board of those activities between the last Regular Board Meeting and the current Regular Board Meeting. It is designed to not repeat various updates included in other status reports presented in this agenda, although there may be activities listed where the General Manager was involved but not cited in the other status reports.

Since April 27, 2016, the notable General Manager's activities included the following:

## **GENERAL MANAGER'S REPORT**

---

Page 2

### **Florin Resource Conservation District**

- Coordinate the FRCD's efforts to sponsor and participate with the Eco:Landscape workshop at the City of Elk Grove held on April 30, 2016.
- Expended significant efforts to explore the possibility of the FRCD in becoming a groundwater sustainability agency (GSA) for the FRCD jurisdictional area. Some of these efforts included:
  - Attending various sessions at the Association of California Water Agencies (ACWA) conference in Monterey to learn about GSA formation and the preparation of groundwater sustainability plans.
  - Attended the Sacramento Central Groundwater Authority (SCGA) Board meeting on May 11.
  - Attended the SCGA Subcommittee meeting on May 16
- Participated in a Statewide discussion, which included 13 resource conservation districts (RCD's) to discuss issues involving RCD's desiring to become GSA's.
- Prepared the May, 2016 Florin Resource Conservation Activities Staff Report.

### **Elk Grove Water District**

- Met with CPS Consultants to complete the new employee classification study for the proposed Program Manager position.
- Met with the City of Elk Grove Public Works Director to discuss various issues between the City and the EGWD.
- Attended the ACWA Conference in Monterey to attend various water related sessions, such as those related to Statewide water issues and AB 52.
- Continued efforts to negotiate and complete the purchase of a property from the Wilton Rancheria Tribe.
- Worked with staff to develop the 2015 Consumer Confidence Report.
- Assisted Director Nelson in representing the FRCD/EGWD at the SCGA Board and Subcommittee meetings on May 11 and May 16, respectively.
- Initiated outside services to continue and enhance the EGWD Safety Program and conduct safety monitoring and training for the District.
- Conducted two private meetings with Board Members.
- Conferenced with the Finance Manager and the EGWD's actuary regarding Other Post-Employment Benefits liability and our budget allocation in FY 2016-17.



**GENERAL MANAGER'S REPORT**

---

Page 3

- Advanced efforts to prepare the FY 2016-17 EGWD Operating and Capital Improvement Program (CIP) budgets.
- Continued efforts to maintain certain activities, previously performed by the Management Analyst, such as the water conservation program and water waste investigations.
- Coordinated various efforts to mitigate problems arising from the Elk Grove power outage on May 17.

**STRATEGIC PLAN CONFORMITY**

This report directly conforms to the goals and objectives for both the Florin Resource Conservation District and the Elk Grove Water District as the General Manager is responsible for implementing the requirements of the Strategic Plan.

**FINANCIAL SUMMARY**

There is no direct financial impact associated with this report.

Respectfully submitted,



MARK J. MADISON, P.E.  
GENERAL MANAGER

May 25, 2016

TO: Chairman and Directors of the Florin Resource Conservation District  
FROM: Bruce M. Kamilos, Assistant General Manager  
SUBJECT: **DRAFT 2015 URBAN WATER MANAGEMENT PLAN**

## **RECOMMENDATION**

This item is presented for information only. There is no action requested of the Florin Resource Conservation District Board of Directors at this time.

### **Summary**

The Elk Grove Water District (EGWD) contracted with Tully & Young to prepare the 2015 Urban Water Management Plan (UWMP). Tully & Young has completed a draft of the UWMP which is attached for your review. The following are the major findings and conclusions of the UWMP:

- EGWD's water supplies are sufficient to meet forecasted water demand through 2045.
- The UWMP 2020 water consumption target for EGWD's customer base will likely be achieved to comply with state-mandated conservation requirements.

This draft report is submitted to the Board to request your review and comments, and no formal action is requested of the Board at this time. It is anticipated that a final report will be presented to the Board on June 22 for your consideration and approval.

## **DISCUSSION**

### **Background**

Every five years, water agencies are required by the Urban Water Management Planning Act to prepare an Urban Water Management Plan (UWMP). In 2011, the Elk Grove Water District completed its most recent UWMP, entitled the Elk Grove Water District 2010 Urban Water Management Plan. By July 1, 2016, the EGWD must once again submit a new UWMP to the State.

The 2015 Urban Water Management Plans require urban water suppliers to report on their water supply's capacity to meet demand projected through year 2045. The UWMP is more than a "check-the-box" exercise. The UWMP analyzes demand forecasts with supply reliability and the results of the analysis can help with water asset and infrastructure planning. The UWMP also updates the urban water supplier's progress toward achieving state-mandated 2020 water conservation targets.

**DRAFT 2015 URBAN WATER MANAGEMENT PLAN**

---

Page 2

Present Situation

On January 12, 2016, the EGWD contracted with Tully & Young to update the UWMP. Tully and Young has now prepared the draft report and it is presented to the Board for your review and comments.

The major findings and conclusions of the 2015 UWMP are:

- EGWD's water supplies are sufficient to meet forecasted water demand through 2045. (2045 demand is only 5% greater than current demand, 7,800 acre-feet/year vs. 8,200 acre-feet/year)
- The state-mandated 2020 water consumption target for EGWD's customer base will likely be achieved.

State law requires that urban water suppliers meet 20% conservation targets from baseline data established in 2010, and then updated in 2015.

The 2010 UWMP established the following water consumption targets for EGWD. (Consumption is measured in GPCD; i.e., gallons per capita day).

- Baseline = 253
- 2015 Interim GPCD Target = 228
- 2020 GPCD Target = 202

The Department of Water Resources (DWR) requires that the 2015 UWMP refine conservation consumption targets using now available 2010 Census data. The revised consumption targets are:

- Baseline = 239
- 2015 Interim GPCD Target = 215
- 2020 GPCD Target = 191

Actual 2015 consumption was 111 GPCD. However, this low value reflected extraordinary conservation achieved by EGWD customers due to the drought in 2014 and 2015. Actual consumption for prior years is given for purpose of comparison.

- 2011 GPCD = 166
- 2012 GPCD = 177
- 2013 GPCD = 170
- 2014 GPCD = 136

The UWMP gives EGWD confidence that it is meeting its state-mandated conservation objectives. Furthermore, the UWMP supports EGWD's work to maintain and improve its water supply assets through its ongoing capital improvement program.

**DRAFT 2015 URBAN WATER MANAGEMENT PLAN**

---

Page 3

Upon receiving comments from the Board, staff will work with Tully & Young to complete the Final 2015 Urban Water Management Plan. It is anticipated that this final report will be presented to the Board for its consideration and approval, subject to holding a public hearing on the matter, at its regular Board meeting on June 22, 2016.

**STRATEGIC PLAN CONFORMITY**

The FRCD/EGWD Strategic Plan identifies that UWMPs must be completed in order to be eligible for DWR grants. Updating the UWMP conforms to the strategic plan.

**FINANCIAL SUMMARY**

There is no financial impact associated with this item.

Respectfully Submitted,

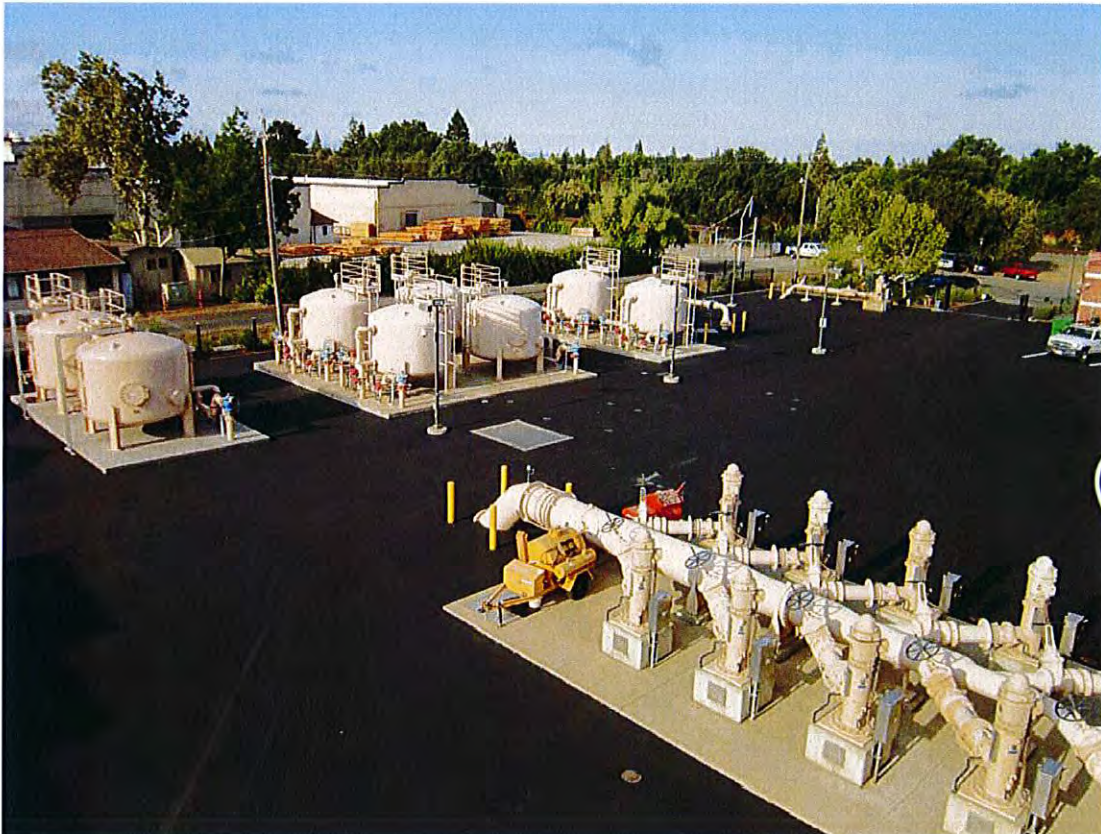


BRUCE M. KAMILOS  
ASSISTANT GENERAL MANAGER

Attachment

# Elk Grove Water District 2015 Urban Water Management Plan

Administrative Draft  
May 16, 2016



[PLACEHOLDER PAGE FOR FLY SHEET AND ENGINEER'S STAMP]

# Table of Contents

Chapter 1. Introduction .....	1-1
1.1 Urban Water Management Planning Act.....	1-2
1.2 Public Participation and Agency Coordination .....	1-3
1.3 Plan Adoption .....	1-5
1.4 Previous Reports.....	1-5
1.5 Plan Organization .....	1-6
Chapter 2. Water System Information .....	2-1
2.1 District Service Area General Description .....	2-1
2.2 Water Delivery System.....	2-5
Chapter 3. Water Supply Characteristics .....	3-1
3.1 Introduction.....	3-1
3.2 Existing Water Supplies and Entitlements.....	3-1
3.2 Groundwater .....	3-2
3.3 Recycled Water.....	3-8
3.4 Desalinated Water.....	3-8
3.5 Transfer and Exchange Opportunities .....	3-9
3.6 Supply Reliability .....	3-10
Chapter 4. Water Demand Conditions .....	4-1
4.1 Review and Refinement of GPCD Targets.....	4-1
4.2 Compliance with 2015 Interim Target.....	4-4
4.3 Current and Forecast Water Demands .....	4-6
Chapter 5. Water Demand Management Measures .....	5-1
5.1 District Participation .....	5-1
Chapter 6. Water Shortage Contingency Plan .....	6-1
6.1 Water Shortage Contingency Resolution.....	6-1
6.2 Stages of Action and Reduction Goals .....	6-1
6.3 Mandatory Prohibitions on Water Waste.....	6-2
6.4 Penalties .....	6-2
6.5 Consumption Reduction Methods .....	6-3
6.6 Revenue and Expenditure Impacts .....	6-4
6.7 Conservation Rate Structures.....	6-4
6.8 Reduction Measuring Mechanism .....	6-4
6.9 Catastrophic Supply Interruption.....	6-5
6.10 Minimum Supply Next Three Years.....	6-5
6.11 Current Drought.....	6-5
Chapter 7. Supply & Demand Integration .....	7-1
7.1 Average Water Year Conditions.....	7-1
7.2 Single Dry Year Conditions.....	7-1
7.3 Multiple Dry Year Conditions .....	7-2

# List of Tables

Table 1-1 – Public and Agency Coordination.....	1-3
Table 2-1: Elk Grove Water District Climate Information.....	2-3
Table 2-2 – Historic and Projected Population.....	2-4
Table 2-3: Expected Growth within the District.....	2-5
Table 3-1: Historical Groundwater Production By Well.....	3-1
Table 3-2: Historical Groundwater Volume Pumped.....	3-4
Table 4-1 – Revised Annual GPCD using 2010 Census Data.....	4-3
Table 4-2 – Comparison of baseline and target values.....	4-3
Table 4-3 – Annual GPCD for 2010 through 2015.....	4-4
Table 4-4 – Existing Customer Characteristics.....	4-7
Table 4-5 – Future Customer Accounts and Demand Factors.....	4-10
Table 4-6 – Projected Water Demands.....	4-12
Table 4-7 – Projected Low Income Household Water Demands.....	4-13
Table 5-1: CUWCC BPM Requirements.....	5-2
Table 6-1: Drought Stages Contingency Plan.....	6-2
Table 7-1 – Supply and Demand Comparison (Average Year).....	7-1
Table 7-2 – Supply and Demand Comparison (Single Driest-Year).....	7-2
Table 7-3 – Supply and Demand Comparison (multiple dry years).....	7-3



# List of Figures

Figure 2-1 – Elk Grove Water District Service Area.....	2-1
Figure 3-1: Sacramento County Central Basin Water Purveyors .....	3-6
Figure 3-2: Regional Sacramento County Groundwater Basins.....	3-7
Figure 3-5: Groundwater Level Changes from 2005 -2015.....	3-11
Figure 3-6: Groundwater Historical Well Data .....	3-12

# List of Appendices

## Appendix A

- A-1: DWR Recommended Tables
- A-2: DWR checklist
- A-3: SB 7-7x Tables
- A-4: AWWA Compliance Documentation
- A-5: Climate Vulnerability Assessment

## Appendix B

- B-1: 2015 UWMP Submission and Approval Documents
- B-2: Copies of Notice Publications
- B-3: Copies of Notification Letters Sent

## Appendix C

- C-1: Water Supply Documents
- C-2: Central Sacramento County Groundwater Management Plan
- C-3: Groundwater elevations
- C-4: SGMA Hydrograph Update

## Appendix D

- D-1: CUWCC Report
- D-2: Water Shortage Contingency Plan
- D-3: Stage 2 Plus Water Shortage Contingency Plan

## CHAPTER 1. INTRODUCTION

The Elk Grove Water District (District) has been a water purveyor in the southern part of Sacramento County for over 115 years, and previously went by the names Elk Grove Water Service and Elk Grove Water Works. The District is a department of the Florin Resource Conservation District (FRCD), which purchased the water system in 1999.

The District services its customers in two service areas with Service Area 1 being served by pumped groundwater and Service Area 2 served by treated water purchased from the Sacramento County Water Agency (SCWA). SCWA delivers to the District both surface water and groundwater that is derived from its conjunctive use operations. The District service area covers approximately 13 square miles and is bounded by Sheldon Road to the north, Highway 99 to the west, Grant Line Road to the east, and the Union Industrial Park to the south.

Serving a population of over 42,000, the District has a broad range of responsibilities, including long-term water reliability planning, management of current groundwater assets, and distribution of potable water. The District's services are coordinated and managed within FRCD.

The District, originally created in 1893 to provide local water services and fire protection water resources, has continued to be a predominant water purveyor within the City of Elk Grove. FRCD was formed in 1953 and purchased Elk Grove Water works (the predecessor to the District) in 1999 to serve urban populations with water.

The District has prepared this 2015 Urban Water Management Plan (2015 UWMP) to comply with the Urban Water Management Planning Act (UWMPA) requirements for urban water suppliers.

This 2015 UWMP addresses the District's water management planning efforts to assure adequate water supplies to meet forecast demands over the next 25 years. As required

### Note to DWR

The Elk Grove Water District has written this UWMP primarily as a water resources planning tool and secondarily to satisfy the requirements of the UWMPA.

The body of the document provides narratives and discusses data that DWR requests in its 2015 UWMP Guidebook, including changes to the California Water Code since 2010.

To facilitate review by DWR for compliance with the UWMPA, data from the body of the document has been transferred into DWR Tables consistent with the organization of the tables in Section E of the 2015 UWMP Guidebook Appendices. These tables are in Appendix A-1.

Also, this UWMP has been reviewed for adequacy according to the UWMP Checklist as contained in Section F in the 2015 UWMP Guidebook. A completed checklist is included in Appendix A-2.

by the UWMPA, the District’s 2015 UWMP specifically assesses the availability of its supplies to meet forecast demands during average, single-dry and multiple dry years through 2045. Verification that future demands will not exceed supplies and assuring the availability of supplies in dry-year conditions are critical outcomes of this 2015 UWMP.

The 2015 UWMP is an update to the District’s 2010 UWMP and presents new data and analysis as required by the California Department of Water Resources (DWR) and the California Water Code (CWC) since 2010. It is also a comprehensive water planning document which describes existing and future supply reliability, forecasts future demands, presents demand management progress, and identifies local and regional cooperative efforts to meet projected water use.

The current four-year drought has emphasized the importance of planning ahead to meet water demands with potentially at-risk water supplies. Such forward planning is an important outcome of the 2015 UWMP, which also addresses the evolving impact of drought on the District’s water supply and operations.

## **1.1 Urban Water Management Planning Act**

The Urban Water Management Planning Act (UWMPA) requires every urban water supplier to prepare an urban water management plan pursuant to CWC Section 10610 et seq.<sup>1</sup> Because the District is an urban water supplier, it is preparing its 2015 UWMP consistent with the UWMPA. The 2015 UWMP provides a framework for water planning to minimize the negative effects of potential water shortages, and provides useful information to the public about the District and its water management programs.

Specifically, the 2015 UWMP describes and evaluates the reliability of the District’s existing and planned water supplies to meet short-term and long-term customer water demands; especially the availability and sufficiency of surface and recycled water assets, and the vulnerability of these supplies to seasonal and climactic conditions.

The 2015 UWMP also revisits baseline per-capita water use data and target conservation values, first developed and presented in the 2010 UWMP as required by CWC § 10608 et seq., and assesses compliance with those targets. This 2015 UWMP also includes narratives describing water demand management measures,<sup>2</sup> its long-term plan for efficient water use, and estimated future water savings based on water use projections, where available. Also included are discussions regarding distribution system water loss, information on the potential use of recycled water as a water source for the District, and

---

<sup>1</sup> An “urban water supplier” is a supplier, either publicly or privately owned, providing water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually.” CWC § 10617.

<sup>2</sup> As detailed in the CWC § 10631 (f)(1) and (2).

the District’s comprehensive water shortage contingency analysis, which details stages of action to be undertaken by the District in response to water supply shortages.<sup>3</sup>

In short, this 2015 UMWP allows the District to assess and plan for on-going effective management of its water supplies to meet its evolving water demands.

## 1.2 Public Participation and Agency Coordination

The UWMPA requires a water purveyor to coordinate the preparation of its UWMP with other appropriate agencies in and around its service area. This includes other water suppliers that share a common source, water management agencies, and relevant public agencies. The District has prepared this 2015 UWMP in coordination with water utilities supplying wholesale water to the District, and has appropriately notified and coordinated with other appropriate local government agencies as listed in **Table 1-1**. Copies of correspondence are included in **Appendix B-3**.

**Table 1-1 – Public and Agency Coordination**

Coordinating Agencies	Coordinate regarding Demands	Sent Copy of Draft UWMP	Sent 60-Day Notice	Notice of Public Hearing
<i>Cities, Counties, Retail Customers and Interested Parties</i>				
Sacramento County			√	√
Sacramento County Water Agency	√	√	√	√
City of Elk Grove (Planning Dept.)	√	√	√	√
City of Elk Grove (Public Works Dept.)	√	√	√	√
Cosumnes Community Service District			√	√
Elk Grove Unified School District			√	√
Sacramento County Regional Sanitation District			√	√
General Public				√
<i>Shared Groundwater Resource Interests</i>				
Cal-Am Water Company			√	√
Sloughhouse Resource Conservation District			√	√
Golden State Water Company			√	√
Rancho Murrieta Community Service District			√	√
Omochumne Hartnell Irrigation District			√	√

### 1.2.1 Sacramento County Water Agency

The District’s service area is completely encompassed by the Sacramento County Water Agency (SCWA). Due to its contractual and geographical relationship, SCWA plays a significant role in the District’s water management. SCWA currently provides water to a portion of the District’s service area; i.e., Service Area 2, through a mix of surface water and groundwater deliveries.

<sup>3</sup> A recent amendment to CWC § 10632 includes defining water features that are artificially supplied with water as part of this contingency analysis.

### **1.2.2 Central Sacramento County Groundwater Management Plan**

SCWA was also a participant in the development of the Central Sacramento County Groundwater Management Plan (CSCGMP). In 2006, the CSCGMP was created in an effort to promote regional water supply planning and identify the groundwater basin's safe yield. As described in Section 3.2, the plan focused on the Central section of the Sacramento groundwater basin to ensure that water supplies were successfully managed and available into the future. The District extracts groundwater from the Central Basin for use by its customers.

### **1.2.3 Water Forum**

Community leaders, along with water managers from Sacramento, Placer and El Dorado counties negotiated the Water Forum Agreement (WFA), which is a comprehensive package of linked actions that will achieve two coequal objectives: (1) Provide a reliable and safe water supply for the region's economic health and planned development through to the year 2030; and (2) Preserve the fishery, wildlife, recreational, and aesthetic values of the Lower American River. Pursuant to the Water Forum provisions, the District has also developed best management practices that are consistent with the Demand Management Measures in the 2015 UWMPA.

### **1.2.4 Regional Water Authority**

The Regional Water Authority (RWA) is a joint powers authority that serves and represents the interests of 22 water providers in the greater Sacramento, Placer, El Dorado and Yolo County regions. The Authority's primary mission is to help its members protect and enhance the reliability, availability, affordability and quality of water resources. RWA has launched significant programs and services on a regional scale, including: (1) A water efficiency program designed to help local purveyors implement best management practices on a regional basis; (2) implementation of the American River Basin Regional Conjunctive Use Program to build and upgrade water facilities throughout the region to better manage surface and groundwater resources; and (3) development of an Integrated Regional Water Management Planning Program to continually identify the regional projects and partnerships that will help the region best meet its future water needs.

### **1.2.5 Additional Entities**

The District has shared water interests with a several other entities due to its groundwater basin and conveyance facilities. These neighboring entities include Sacramento County, City of Elk Grove, Cosumnes Community Service District, Elk Grove Unified School District, and Sacramento County Regional Sanitation District. All of these entities, including the general public and adjacent water suppliers, were sent 60 day notices and

encouraged to attend the public hearing prior to the adoption of the 2015 UWMP. A copy of the letter is provided in **Appendix B-3**.

### **1.3 Plan Adoption**

Prior to adoption, the District held a public hearing regarding its 2015 UWMP on **[INSERT DATE]**. Before the hearing, the District made a draft of the 2015 UWMP available for public inspection at the District's office and on the District's website. Pursuant to CWC Section 10642, general notice of the public hearing was provided through publication of the hearing date and time,<sup>4</sup> and posting of the hearing at the District's office.

As part of its public hearing, the District received community input regarding its implementation plan for complying with the water conservation requirements contained in CWC § 10608.20 et seq., including the implementation plan's economic impacts.<sup>5</sup> Also, at the public hearing, the District presented the method for determining its urban water use target pursuant to CWC § 10608.20(b).

The District adopted this 2015 UWMP on **[INSERT DATE]**<sup>6</sup> A copy of the adopted 2015 UWMP will be provided to the County and the California State Library, and posted onto the District's website.

#### **1.3.1 Additional Compliance**

The District plans to submit all required documentation related to the UWMPA soon after adoption. These include the required DWR UWMP Tables as **Appendix A-1**, the DWR Checklist as **Appendix A-2**, the SB 7-7X compliance forms as **Appendix A-3**, and the AWWA Water Audit worksheet as **Appendix A-4**.

### **1.4 Previous Reports**

The 2015 UWMP has been prepared using a number of related planning documents and previous reports, including, but not limited to:

- Elk Grove Water District 2010 UWMP;
- Central Sacramento County Groundwater Management Plan;
- City of Elk Grove's General Plan

---

<sup>4</sup> See **Appendix B-2** for copies of the published notices.

<sup>5</sup> CWC § 10608.26

<sup>6</sup> The resolution adopting the 2015 UWMP is in **Appendix B-1**.

## 1.5 Plan Organization

This UWMP is organized as follows:

- Chapter 2 provides a description of the District’s (a) service area, including climate; demographic and population characteristics; and current and projected land-use changes integral to the demand forecasts, and (b) water system, including the potable and non-potable delivery systems.
- Chapter 3 describes the District’s current and future water supplies and the reliability of the supplies.
- Chapter 4 details the demands on the District’s system, including the past and future estimated demands.
- Chapter 5 provides information regarding the District’s demand management measures.
- Chapter 6 discusses the District’s water shortage contingency plan.
- Chapter 7 compares the District’s supplies and demands in normal and dry years.

The appendices include background information, details, and necessary supporting documents.



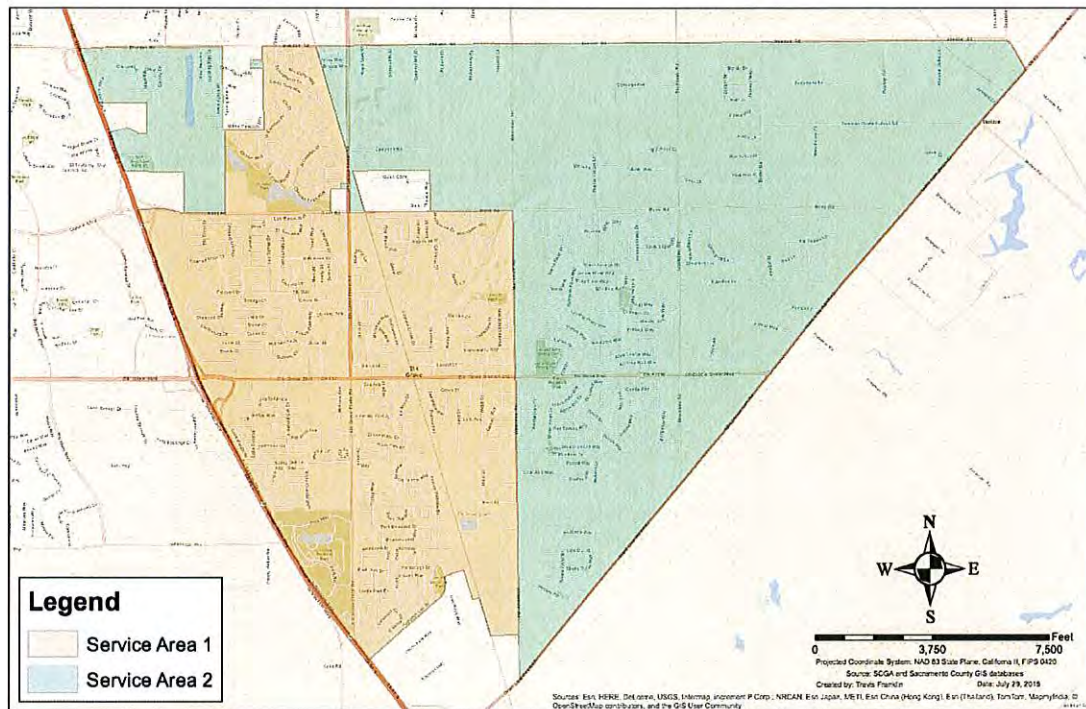
# CHAPTER 2. WATER SYSTEM INFORMATION

## 2.1 District Service Area General Description

The Elk Grove Water District (District) is a public water agency that provides potable water directly to retail customers throughout the approximately 13 square mile District boundary. The District and surrounding area overlay the Sacramento Area Groundwater Basin, and specifically rests atop the Central Basin. The District is bounded by Sheldon Road to the north, Highway 99 to the west, Grant Line Road to the east, and the Union Industrial Park to the south. The District operates as a department within the Florin Resource Conservation District (FRCD) and is surrounded by the SCWA on all sides.

The District is separated into two service areas: Service Area 1 and Service Area 2. Service Area 1 is supplied by groundwater wells and treated by the District’s water treatment plant. Service Area 2 is supplied by surface water and groundwater purchased from SCWA. **Figure 2-1** represents the District’s service areas.

**Figure 2-1 – Elk Grove Water District Service Area**



### 2.1.1 Climate

Elk Grove Water District’s climate is typical of California’s Central Valley with hot, dry summers, and cool, wet winters. Climate data for the District was obtained from local reporting stations with the same microclimate characteristics as the District’s service area.

Temperature data was obtained from the Western Regional Climate Center (WRCC) station at Sacramento Executive Airport, located about 17 miles northwest of the District's service area. The average annual temperature is about 61 degrees Fahrenheit. Typically, July and August are the hottest months of the year with an average daily temperature of about 75 degrees, though daytime high temperatures average close to 92 degrees. There are approximately 73 days a year when the high temperature exceeds 90 degrees. December and January are generally the coolest months of the year, with a mean annual temperature of about 46 degrees, and the average minimum dipping down to 38 degrees. Historically, there are about 18 days per year in which temperatures go below 32 degrees.

Precipitation data is also documented from the WRCC Sacramento Executive Airport station. For the period 1941-2015, average rainfall was measured at 17.21 inches. The wettest months are December, January and February, and the driest months are typically July and August.

Evapotranspiration (ETo) varies seasonally, and during dry years the significance of evapotranspiration is magnified because it continues to deplete surface and soil water supplies that are not being replenished by sufficient precipitation. The District monitors ETo closely. Standard monthly average ETo data was obtained from the California Irrigation Management Information System (CIMIS) station 131 located in Fair Oaks, California, which is about 20 miles northeast of the District's service area. Average annual ETo for the period 1998-2015 measured 50.56 inches.

Additional ETo data from California Model Water Efficient Landscape Ordinance (MWELo) is also reported in **Table 2.1**. Local agencies are to use the MWELo ETo values as the standard for approval of landscape plans associated with specific development projects. Since the City of Elk Grove (City) was not listed in the MWELo ETo Table, data from the nearby City of Sacramento was used.<sup>7</sup>

All evapotranspiration (ETo), rainfall, and temperature data is provided in **Table 2-1**.

### **2.1.2 Demographics and Population Characteristics**

The population served by the Elk Grove Water District includes a mix of users and user classes, and follows the same demographic and population trends as the City. The District is comprised of single-family residential (84%), multi-family residential (2%), commercial (11.5%), with 2.5 percent of the area designated as industrial. The build out

---

<sup>7</sup> As outlined in the 2015 update to the MWELo § 492.4 (a) (1): For geographic areas not covered in MWELo Appendix A, use data from other cities located nearby in the same reference evapotranspiration zone, as found in the CIMIS Reference Evapotranspiration Zones Map, Department of Water Resources, 1999.

of the service area will consist of mainly residential, multi-family, and commercial land uses. The service area’s currently averages about 3.7 persons per connection.

**Table 2-1: Elk Grove Water District Climate Information<sup>8</sup>**

Month	MWEL0 Appendix A ETo (inches)	CIMIS Standard Monthly Average ETo (inches)	Average Precipitation (inches)	Average Temperature (Fahrenheit)	Average Maximum Temperature (Fahrenheit)	Average Minimum Temperature (Fahrenheit)
January	1.00	1.12	3.56	45.7	53.5	37.8
February	1.80	1.70	3.07	50.4	59.9	41
March	3.20	3.29	2.44	53.9	64.6	43.1
April	4.70	4.49	1.17	58.6	71.4	45.9
May	6.40	6.36	0.5	65.3	79.9	50.7
June	7.70	7.40	0.18	71.3	87.2	55.4
July	8.40	7.95	0.03	75.5	92.7	58.2
August	7.20	7.05	0.06	74.6	91.5	57.8
September	5.40	5.17	0.25	71.8	87.7	55.8
October	3.70	3.37	0.93	63.9	77.7	50.2
November	1.70	1.63	2.04	53.1	63.7	42.6
December	0.90	1.05	3.02	46	53.8	38.2
<b>Annual :</b>	52.1	50.56	17.25	60.8	73.6	48.1

Historical and 2015 service area population estimates were generated using DWR’s WUE data application. This application uses census data, service area boundaries, and person per connection data to calculate population estimates.<sup>9</sup>

Projected population and build-out estimates were derived using various SACOG reports and City General Plan data.<sup>10</sup> The historic and 2015 population as well as projected populations are presented in **Table 2-2**. The District service area is expected to reach build out by 2045, with most growth occurring prior to 2025, followed by a slow growth rate of less than 0.5 percent annually.

<sup>8</sup> From MWEL0 Appendix A data from Sacramento, CA. The ETo data taken from DWR CIMIS Data, Fair Oaks Station 131, 1998-2015. Precipitation and Temperature data from WRCC, Sacramento Executive Airport (047630) 1941-2015.

<sup>9</sup> Elk Grove Water District service area falls into Category 2 of DWR Methodologies for Calculating Baseline and Compliance Urban Per Capita Water Use

<sup>10</sup> City of Elk Grove General Plan with Amendments as of March 2015. Land Use Element, Housing Element, Economic Development Element data.

**Table 2-2 – Historic and Projected Population**

Year	Population	Year	Population
1995	22,234	2009	38,135
1996	22,776	2010	39,694
1997	23,319	2011	40,326
1998	23,863	2012	40,960
1999	24,408	2013	41,594
2000	24,954	2014	42,230
2001	26,444	2015	42,867
2002	27,940	2020 (est.)	44,902
2003	29,339	2025 (est.)	49,549
2004	30,831	2030 (est.)	50,530
2005	32,321	2035 (est.)	50,604
2006	33,817	2040 (est.)	50,678
2007	35,315	2045 (est.)	50,752
2008	36,567	Reached Build-out	

### 2.1.3 Current and Projected Land Use

As previously indicated, the District currently serves a variety of land use including residential, industrial, retail and commercial customers. The current and projected population shown in **Table 2-2** are a reflection of these land uses, with the increased population reflecting proposed development, as well as continued growth as represented by the City’s General Plan and related documents. These anticipated land use changes are the foundation for forecasting the District’s future water demands.

To develop a basis for the demands forecast in Chapter 4, the District sought and received input from the City’s Planning Department regarding its desired representation of the City’s General Plan within the District’s service areas. Table 2-3 presents the anticipated growth by land-classification and 5-year horizon that the District will develop demand estimates to serve.

**Table 2-3: Expected Growth within the District**

Land-class		Future (Accounts or Acres)					
		2020	2025	2030	2035	2040	2045
Service Area 1	Residential						
	RD-5, new	16	36	44	44	44	44
	RD-20/Apt,	0	75	75	75	75	75
	Non-residential						
	Commercial Center	10	25	45	45	45	45
	Future Industrial	5	25	45	60	60	60
Service Area 2	Residential						
	Future No Yards	100	261	261	261	261	261
	Future RD-10	92	172	172	172	172	172
	Future RD-5	300	1000	1242	1242	1242	1242
	Future Large Lots	42	62	77	97	117	137
	Future Apartments	0	200	200	200	200	200
	Non-residential						
	New Commercial	10	20	27	27	27	27
	New Industrial	10	30	50	64	64	64
	Future Bus/Prof	2	2	2	2	2	2
	Future Schools	0	10	10	10	10	10
Future Parks	10	21	21	21	21	21	

## 2.2 Water Delivery System

The District has two service areas (see **Figure 2-1**). Service Area 1 utilizes water developed by the District and directly delivered to its customers. Service Area 2 obtains water from Sacramento County Water Agency (SCWA) that is either produced from SCWA’s groundwater facilities or diverted and delivered through its surface water system. Both of these systems are described in greater detail in Chapter 3.

### 2.2.1 Potable Delivery System

Service Area 1 is supplied by several groundwater wells that deliver water to a potable groundwater treatment plant owned and operated by the District. The system includes the treatment plant, two storage tanks, the production wells serving the plant and various distribution system pipes and appurtenances. The water treatment plant, referred to as the Railroad Street Treatment and Storage Facility, has a maximum day capacity of 10.4 million gallons per day (MGD). The facility can pump up to 16,000 gallons per minute. Groundwater is delivered to the plant from the District’s deep production wells, where it is treated before being delivered to customers.

Service Area 2 is provided treated and fluoridated water provided by SCWA owned and operated groundwater production wells that intertie into the District’s Service Area 2

distribution system at multiple locations. In 2014 fluoride was at optimal levels in the SCWA distribution system. The optimal fluoride level and control range for the system is based on an annual average maximum daily air temperatures. In accordance with Title 22, Section 64433.2 of the State Board regulations, the optimal fluoride level is 0.8 mg/L and the fluoride control range from 0.7 mg/L - 1.3 mg/L.<sup>11</sup> The District is also responsible for the maintenance and operation of the transmission and distribution mains for Service Area 1 and the distribution mains for Service Area 2. There is a single water treatment plant within the Service Area 2 service boundary, however it is owned and operated by SCWA. This treatment plant is commonly referred to as the East Elk Grove Groundwater Treatment Plant.

### **2.2.2 Non-Potable and Recycled Water Systems**

The District does not currently have any recycled water systems, nor does it receive recycled water from its SCWA contract.

---

<sup>11</sup> Elk Grove Water District 2014 Consumer Confidence Report

# CHAPTER 3. WATER SUPPLY CHARACTERISTICS

## 3.1 Introduction

As discussed in Section 2.1, the District has limited options for water supplies given its boundaries and available resources. Although the Sacramento County Water Agency surrounds the District, it still has access to a large quantity of water through groundwater pumping. Through its groundwater pumping and a wholesale water contract with SCWA, the District meets its customer water needs.

## 3.2 Existing Water Supplies and Entitlements

The District has historically received its water supply through self-supplied groundwater and water purchased through the SCWA. The District relies solely on groundwater as the source of supply for Service Area 1, whereas Service Area 2 uses water supplied by SCWA (although this supply is also predominantly groundwater).

Groundwater is supplied to Service Area 1 by a series of three shallow wells and four deep wells, all located within the District’s service area. Historically, the wells and underlying subbasin have not been categorized as an overdraft risk. However, new groundwater legislation – the Sustainable Groundwater Management Act (SGMA) – may impact the availability of groundwater to the District. Nevertheless, **Table 3-1** provides the historical supply produced by the Service Area 1 wells, accompanied by each wells maximum pumping capacity.

**Table 3-1: Historical Groundwater Production By Well<sup>12</sup>**

Year	Annual Production (acre-feet)									Total
	Well 14D	Well 4D	Well 11D	Well 1D	Well 3	Well 8	Well 12	Well 9	Well 13	
Capacity (GPM)	1630	1900	1850	1750	850	850		475	1000	
2010	1579	1079	730	0	133	246	37			3804
2011	1422	1367	848	718	42	182	37			4615
2012	896	1280	948	1007	194	706	396	155		5582
2013	804	1327	1185	249	594	337	0	698		5194
2014	271	1260	1375	90	268	418	out of service	437		4118
2015	313	1202	642	139	393	22		342	346	3398

Service Area 2, which is located within SCWA’s Zone 40, has access to both SCWA’s groundwater and surface water resources. But as a matter of practice, water served to customers in Service Area 2 is almost entirely derived from SCWA’s production wells located within the service area.

<sup>12</sup> Based on recorded well production rate data

Service Area 2 is supplied water from the SCWA through a wholesale master water agreement with SCWA (see **Appendix C-1**). The original agreement was signed in 1995. In 2002, the parties “restated” the master water agreement in order to clarify the parties, terms and conditions. The Agreement provides that SCWA will provide a permanent supply of wholesale treated water to the District for use within the District’s service area.<sup>13</sup> The contract has a 50 year term with an automatic renewal clause for another 50 years unless one party provides a 5 year notice of intent not to extend.<sup>14</sup> The agreement was developed to provide a way for new development in the District’s service area and Florin Resource Conservation District’s service area to access new water supplies being developed through the Zone 40 conjunctive use program.

In 2015, SCWA delivered 1,914 acre-feet of water to the District under this agreement.<sup>15</sup> Although SCWA has some surface water and recycled water assets, Service Area 2 is not currently supplied with recycled water and currently does not receive any significant amount of surface water. SCWA is developing substantial surface water supplies as part of the Freeport Regional Water Authority (FRWA), which may become available to Service Area 2 in the future. SCWA also delivers Aerojet remediated groundwater supplies derived from foreign sources of groundwater in the American River Watershed through the FRWA system.

Through the contract, the District agreed to purchase water from SCWA to serve its expanded retail area (Service Area 2). The development within the Service Area 2 is required to pay the Zone 40 Development Fee for new building permits, and a monthly user fee for Zone 40 capital projects, which support conjunctive use in the Central Basin. Importantly, the District does not have a water right other than the contract right to the water delivered through SCWA’s system. Nevertheless, Zone 40’s conjunctive use water supply is considered a permanent and reliable source based upon the language of the Agreement.<sup>16</sup>

### **3.2 Groundwater**

The groundwater wells within the District’s system extract water from aquifers between 200 and 1,000 feet below the ground elevation. The District holds groundwater

---

<sup>13</sup> First Amended and Restated Master Water Agreement Between Sacramento County Water Agency and Florin Resource Conservation District/Elk Grove Water Service, Successors-In-Interest to Elk Grove Water Works, June 28, 2002 at Article I and Article III (Hereafter “Agreement”). Elk Grove Water District is part of FRCD <http://www.egws.org/index.html>

<sup>14</sup> Agreement at Article VI.

<sup>15</sup> Based on water supply data from the District for 2015 delivery of water under SCWA contract.

<sup>16</sup> Agreement at Articles I and III.



appropriate water rights to all groundwater supplies derived from its wells that are delivered to its customers.<sup>17</sup>

The District is located in the Central Basin Area of the Sacramento County Groundwater Basin, as identified in the Central Sacramento County Groundwater Management Plan (CSCGMP). The Central Basin boundary was defined by CSCGMP and incorporated into the Sacramento County groundwater model used in the Water Forum process. The CSCGMP was formally adopted by the participating agencies in 2006. This document is attached in **Appendix C-2**. As stated in the CSCGMP, the Water Forum estimated the long-term average annual sustainable groundwater pumping yield from the entire Central Basin to be 273,000 acre-feet per year.

Numerous public and private water purveyors within Sacramento County pump groundwater through groundwater wells. This well pumping data is collected as part of the Water Forum Successor Effort's "Central Sacramento County Groundwater Forum," and is presented in the CSCGMP. This UWMP presents the expected groundwater pumping rates through 2030, if the groundwater extraction is not supplemented with additional surface water contracts. SCWA also completed a separate GMP under California Water Code Section 10750 for Zone 40<sup>18</sup> and there is a South Basin Sacramento County Groundwater Management Plan as well.<sup>19</sup> These two documents are informative to the CSCGMP analysis that constitutes the basis of the District's groundwater usage

### **3.2.1 Groundwater Characteristics and Conditions**

Groundwater elevations are regularly monitored within the region by DWR. Some of these records date back to the early 1950s. Hydrographs in the vicinity of the District's service areas indicate that the groundwater elevations have declined from the early 1950s through the late 1970s. From approximately 1980, the groundwater elevations have remained relatively consistent, except for a temporary decline in the early to mid-1990s. The static depth to groundwater within the District currently ranges between 60 to 110 feet below the ground surface.

The aquifer system within the Central Basin consists of continental deposits of the late Tertiary to Quaternary age (DWR Bulletin 118). The major fresh water bearing geologic units are the Laguna Formation and the Mehrten Formation. The District has wells constructed in both of these formations. The Laguna Formation, which extends to a total depth of approximately 300 feet within the Central Basin, is used for private domestic wells and municipal water supply wells.

---

<sup>17</sup> Groundwater derived from its wells and applied to "overlying lands" that are owned by the District are based on overlying groundwater rights.

<sup>18</sup> Developed in 2004

<sup>19</sup> Developed in 2011

In total the District has eight wells producing water for Service Area 1, though one is offline (see **Table 3-1**).

Combined with SCWA groundwater production, the District’s customers have been served the total groundwater volumes shown in **Table 3-2**. It should be noted that the State’s mandates reducing and restricting water use in light of the drought has impacted the volume of water used since 2013.

Future groundwater projections are estimated to mimic these recent values (absent the significant reductions in 2015) as explained in more detail in Chapter 4 (demands) and Chapter 7 (integration of supply and demand).

**Table 3-2: Historical Groundwater Volume Pumped**

Annual Production (acre-feet)			
Year	Self Produced	Purchased from SCWA	Total
2010	4,440	2,502	6,941
2011	4,615	2,885	7,499
2012	5,582	2,535	8,117
2013	5,194	2,718	7,912
2014	4,118	2,297	6,414
2015	3,398	1,914	5,311

### 3.2.2 Groundwater Management

To address the groundwater management of the District’s current supplies, the analyses of both the Water Forum Agreement and the Central Basin Groundwater Management Plan must be assessed. In addition, the emerging rules associated with the Sustainable Groundwater Management Act – that will require formation of a Groundwater Sustainability Agency (GSA) and adoption of a Groundwater Sustainability Plan (GSP) – may impact the long-term management of the Central Basin. Nevertheless, because of the sustainable yield assessments and SCWA’s and the District’s conjunctive use operations functioning within those parameters, it is likely that groundwater cutbacks to the District will not be realized.

#### *Central Sacramento County Groundwater Management Plan*

As described above, the District overlies and extracts groundwater from the Central Basin from seven wells that range in total depth from 450 to 1,075 feet below ground surface. The public water systems and water service providers that extract water from the Central Basin besides the District include: the California American Water Company, City of Sacramento, SCWA, the Golden State Water Company, and numerous private

landowners that possess overlying groundwater rights linked to their property ownership. The Central Basin water providers and the groundwater basin boundaries are shown on **Figure 3-1** and **Figure 3-2**, respectively.

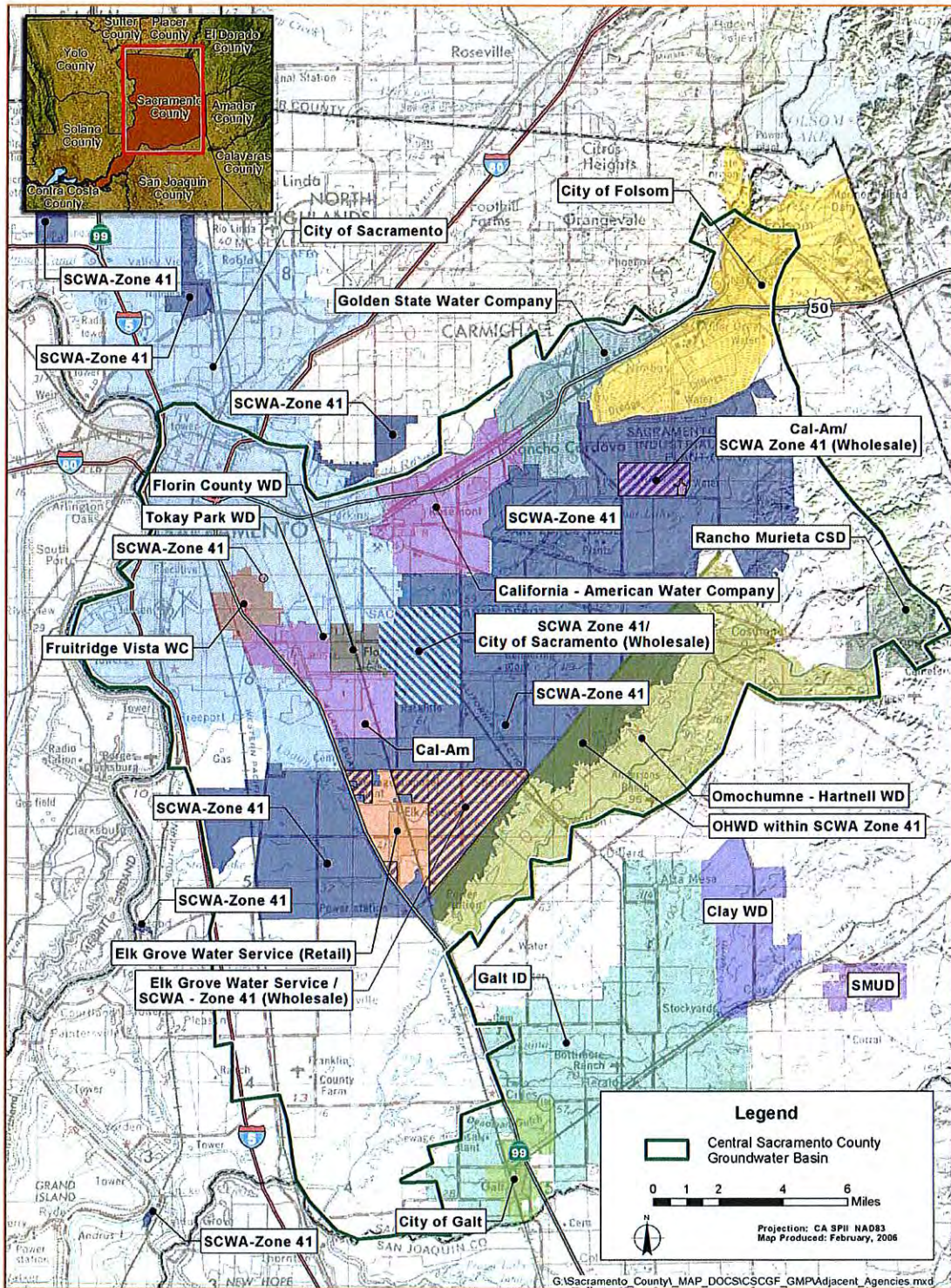
The Central Basin is not adjudicated or considered to be in a state of overdraft. Due to the active planning by water agencies and conjunctive use efforts, the basin will remain stable in the future. The CSCGMP provides for the long-term protection of groundwater quantity and quality within the region, and contains policies directing the development of surface water supplies, conservation, and other measures to service urban development as it occurs, thereby protecting the sustainable annual groundwater yield threshold of 273,000 AF.

Based upon the Central Basin's total projected water supplies for normal, single-dry, and multiple-dry years over a 20-year projection, as demonstrated in **Section 7**, the Central Basin will have sufficient water to meet estimated water demands for the build-out of the District's Service Area 1 and Service Area 2.

#### *Sustainable Groundwater Management Act*

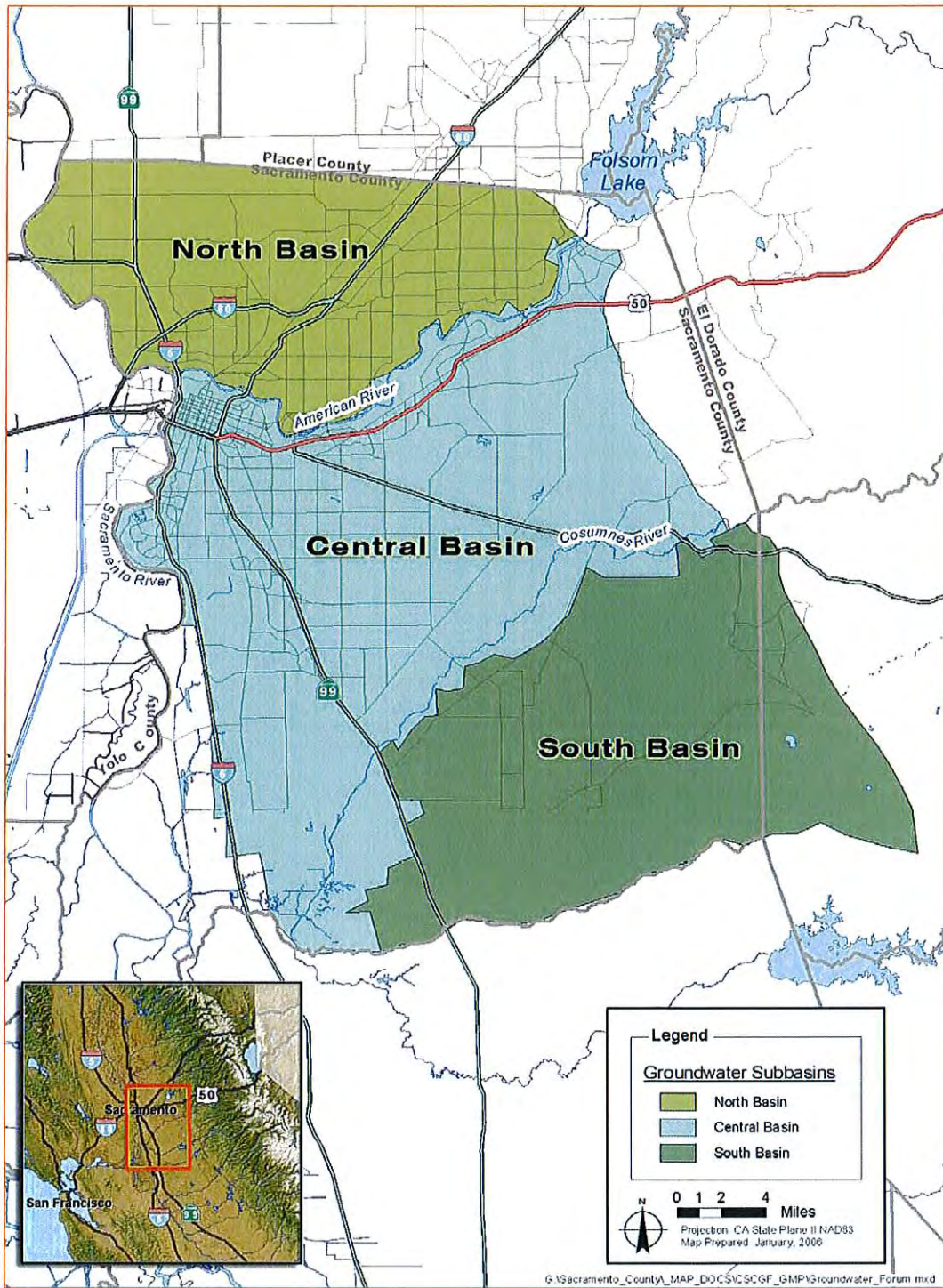
Under the Sustainable Groundwater Management Act, as discussed above, new state laws require the establishment of a GSA and a GSP. Although the Central Basin has an existing Groundwater Management Plan, the CSCGMP, that outlines planning protocols associated with current management efforts, the CSCGMP may not be the controlling planning document in the future. Moreover, the CSCGMP participating agencies have not yet been chosen to act as GSA. Once a GSA is formed, they will be required to develop a GSP. This may mimic the CSCGMP fundamental analyses but it is too early to tell if those analyses will meet the states' more stringent regulations.

Figure 3-1: Sacramento County Central Basin Water Purveyors<sup>20</sup>



<sup>20</sup> 2006 CSCGMP Figure 1-2

Figure 3-2: Regional Sacramento County Groundwater Basins<sup>21</sup>



<sup>21</sup> 2006 CSCGMP Figure ES-1.

### **3.2.3 Groundwater Quality**

Water produced from the Laguna Formation and the Mehrten Formation is considered generally good quality with low total dissolved solids. Water produced from the Laguna Formation often meets all water quality standards, but exceeds the Maximum Contaminant Level (MCL) for arsenic within some areas of the Central Basin. The Mehrten Formation often contains manganese and odor, which exceed the MCLs. The upper portion of the Mehrten Formation, (between 300 feet to 700 feet within the District), occasionally exceeds the MCL for arsenic within the Central Basin. The lower portion of the Mehrten Formation, (between 700 feet to 1,300 within the District) generally has concentrations of arsenic that are under the MCL, but still require treatment to remove manganese and odor.

The quality of the groundwater supplied by the district meets the drinking water standards. The District provides centralized water quality treatment to remove manganese for the District's four deep wells. The three active shallow wells do not require treatment to meet drinking water standards.

### **3.3 Recycled Water**

The District does not currently receive any recycled water. SCWA currently obtains and serves recycled water with its Zone 40 service area and expansion into the District's service area is feasible. However, at this time, there are no clear plans for this to occur or for the District to develop its own recycled water supply.

The recycled water SCWA does serve is produced from a partnership with Sacramento Regional County Sanitation District (SRCSD) and the Sacramento County Environmental Management Department. The water recycling facility is located within the City of Elk Grove and is being increased from a 3.5 MGD capacity to over 10 MGD. SRCSD performed a Water Recycling Opportunities Study (WROS) that identified five key target areas for potential recycled water uses. The District exists within the Target Area identified as Target Area 1 South Area.<sup>22</sup> However this area was found to have a decreased potential for future recycled water use due to its limited overall use potential, and infrastructure costs. Accordingly, based on the WROS, it is not anticipated that the District will use any recycled water for its service area presently and out into the future.

### **3.4 Desalinated Water**

Desalination of ocean water is not physically or financially viable for the District at this time and it has no future plans to develop water supplies derived from desalination activities.

---

<sup>22</sup> Sacramento Regional County Sanitation District, Water Recycling Opportunities Study, February 2007.

### 3.5 Transfer and Exchange Opportunities

The District has opportunities for limited potable water transfers or exchanges. All of these transfer or exchanges would likely involve SCWA since SCWA controls the wheeling facilities that could deliver surface water assets to the District. Furthermore, the District could move water between Service Area 1 and Service Area 2 through numerous valves that the District generally keeps closed. Therefore, with some creative thinking and willing partnerships, the District could engage in numerous forms of water transfers that may have long-term regional benefit. Some examples of these are described below.

#### *In Lieu Banking Arrangement with Surface Water Purveyor*

The District could engage a water purveyor with surface water assets connected to the Sacramento River watershed and use those surface water assets in lieu of using its groundwater. In this scenario, the District would receive the right to divert water through a temporary water transfer agreement and appropriate regulatory steps.<sup>23</sup> The water would be diverted at the Freeport Regional Water Agency diversion facility and delivered directly to the District through SCWA's wheeling and treatment facilities. The benefit of this sort of transaction is that it would relieve pressure on the groundwater basin and preserve the groundwater supplies for dry periods when surface water assets are less available.

A second form of an in-lieu banking alternative might include assigning the rights to the banked groundwater to another agency. For instance, if Golden State Water Company could deliver some of its surface water assets directly to the District in normal and wet years, the District could assign a portion of its banked groundwater assets to Golden State Water Company for use in dry years. An in-lieu banking and exchange agreement can work where an entity shares resources in the Central Basin.

#### *Third Party Water Exchange Arrangement*

In other instances, water exchanges may benefit multiple parties through creative transfer arrangements. For example, if the District were to purchase water and deliver it directly to SCWA for SCWA's broader distribution in its service area, then SCWA is preserving groundwater assets that it might otherwise use for dry year availability. In this situation, SCWA may also reduce its treatment costs, etc. by increasing the utility of the FRWA (which has cost variables) as well as the per acre-foot cost of treatment at its Vineyard Water Treatment Plant. In other words, acquiring an asset and creating an exchange arrangement with SCWA may have multiple benefits not only to manage water use in dry

---

<sup>23</sup> There are different regulatory steps needed for different types of water rights and assets which would be further detailed at the time the transfer was proposed.

years but also in long term groundwater basin recovery and management of costs related to FRWA and Vineyard system operations.

### 3.6 Supply Reliability

The District's water supplies are stable and reliable. Both the groundwater supply and SCWA's surface water supply are well-preserved. As such, water service to Service Area 1 and Service Area 2 should remain stable in all year types.

Under the CSCGMP, long-term groundwater quantity and quality protective measures have been performed throughout the basin by various agencies, including the District, in order to preserve groundwater assets. As shown in **Figure 3-5**, the District's service area overlays a sustainable reliable groundwater source. This figure shows the boundaries of the South American Sacramento Valley sub basin outlined in blue. The color gradation demonstrates that from 2005-2015, there has been no decrease to the basin's overall groundwater levels, and that, in fact, the groundwater levels in the District's service area have increased by approximately 10 feet during this 10-year period.

The groundwater supply's reliability for the District is further demonstrated in **Figure 3-6**. This figure confirms that the Central Basin's water levels have remained stable over the last two decades with the implementation of sound management practices. The stability of the groundwater wells has been further documented by SCGA's March 7<sup>th</sup> Board of Director's meeting, which concluded that each well has maintained stable levels. Graphic's of the most recent historical trends for each well can be found in **Appendix C-4**. The well monitoring data from a sampling of groundwater wells in the basin illustrate the Central Basin's overall good condition. Furthermore, the figures show that the wells closest to the District's actual service area, have actually increased in groundwater levels because of the District's and SCWA's conjunctive use actions.

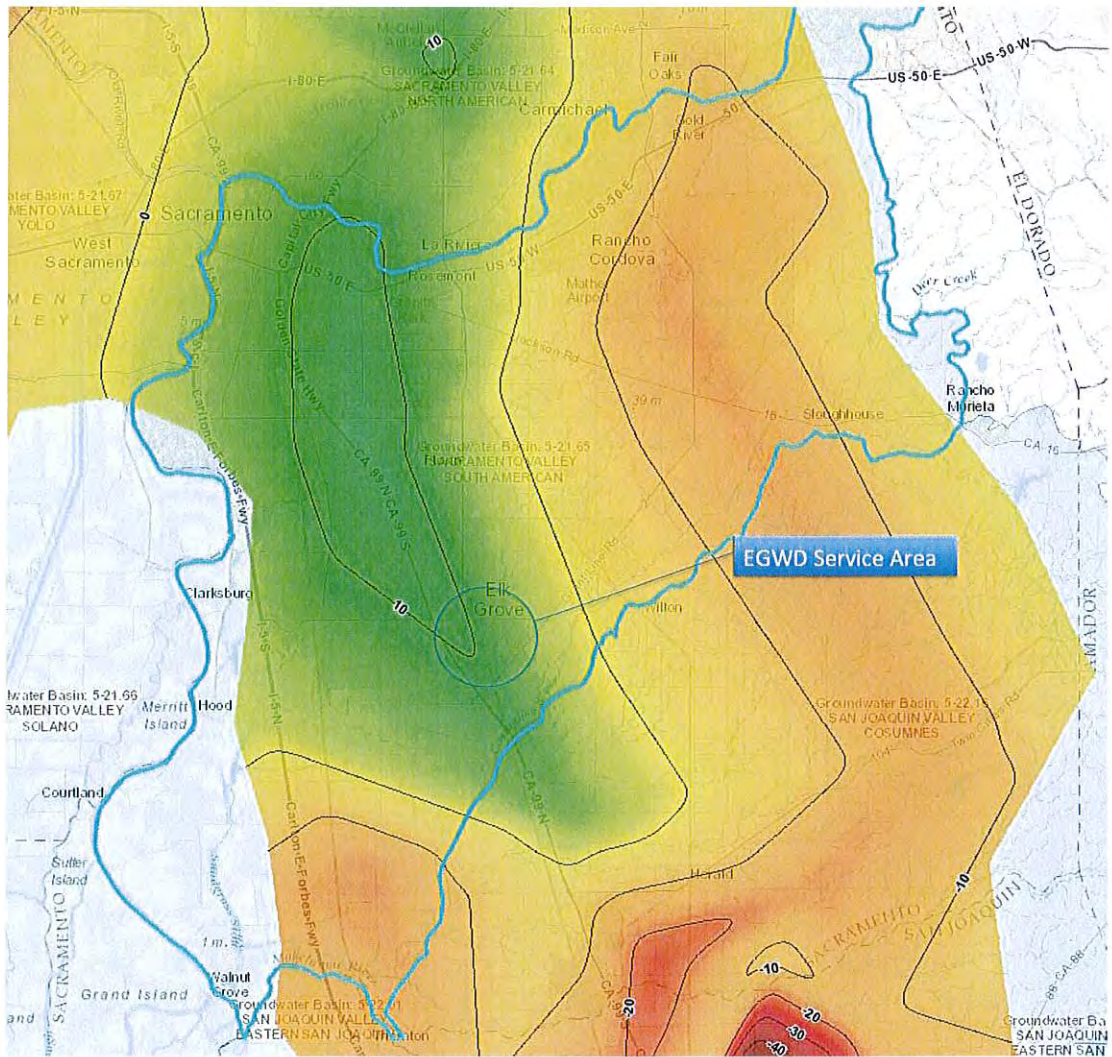
The District covers approximately three percent of the entire Central Basin, taking this into account with CSCGMP overall estimated sustainable groundwater yield of 273,000 AFY, the District has 9,168 AFY of groundwater available within its service area.<sup>24</sup> This quantity of available groundwater is more than sufficient to meet the District's current water needs and accommodate the anticipated future water demands discussed in **Chapter 4**.

---

<sup>24</sup> Total groundwater calculated based on the acreage of the Central Basin and the District Service Area in conjunction with the SCSGMP groundwater safe yield amount.

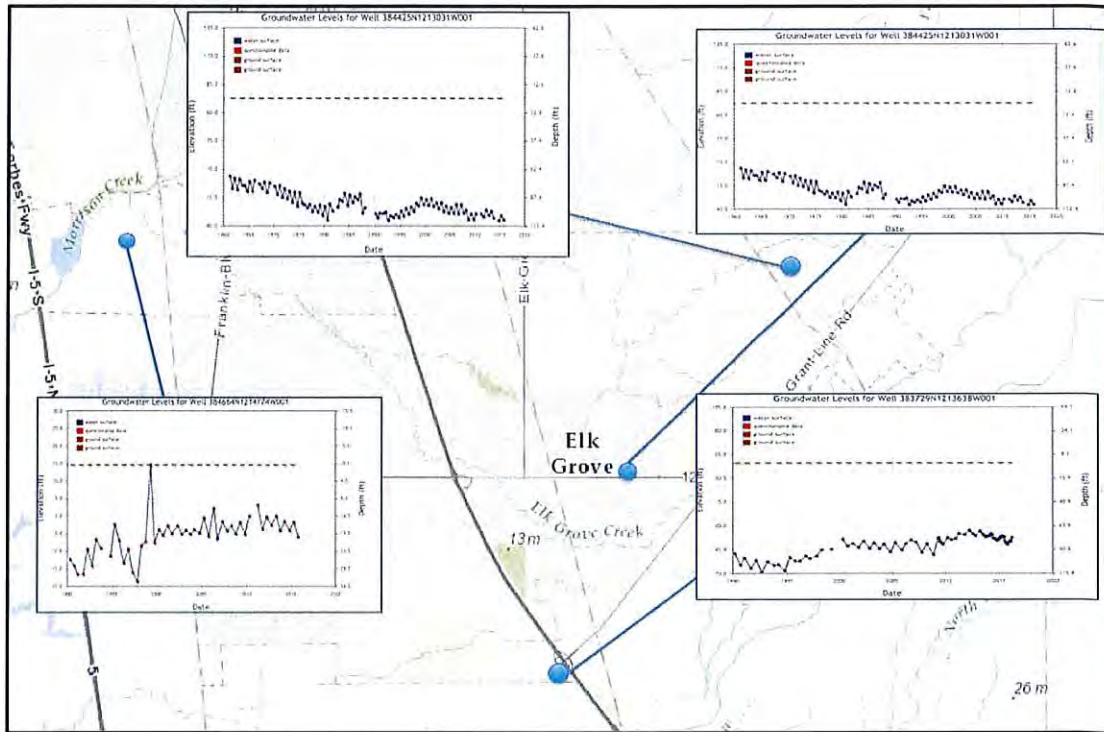


**Figure 3-5: Groundwater Level Changes from 2005 -2015<sup>25</sup>**



<sup>25</sup> Figure created using the GICIMA tool available on DWR website at <https://gis.water.ca.gov/app/gicima/>

Figure 3-6: Groundwater Historical Well Data<sup>26</sup>



In addition to the District’s groundwater supply, its supply from SCWA is also reliable. As the Restated Master Water Agreement confirms, the District will be supplied water for Service Area 2 by SCWA under all conditions. There are no limits on the quantity of water available under this contract nor are there exceptions for drought or other forms of hydrological variability. The term of the contract is for 50 years (until 2052) and requires five years notice for any deduction or interruption in service. For the purpose of this 2015 UWMP, the estimate for the future water supply under contract provided by SCWA will be set to match the projected demand for Service Area 2, as presented in **Chapter 4**.

This permanent supply under the SCWA contract is comprised of groundwater and/or surface water. Any of the supplied water made up with groundwater would be drawn from within the Central Basin and as discussed above, the Central Basin has historically been maintaining approximately the same levels for over the last decade. Minimal surface water is used to make up the deliveries to the District. For the surface water portion of any water supplied, SCWA is in the process of developing FRWA to greatly increase its surface water supplies. This expansion of their surface water supply and

<sup>26</sup> Groundwater level data and graphics obtained from DWR’s water groundwater data website.

planned increases in their recycled water capacities indicates that SCWA is a reliable water source.

### **3.6.1 Normal Year Water Supply Availability**

The District's total available water supply will not vary in a normal year from what was discussed in **Section 3.2** and **Figure 3-1**. It is evident based on **Figure 3-5** and **Figure 3-6** that the groundwater supply would be stable in a normal year and that the basin may even gain an increase in its groundwater levels based on the trend of the last ten years. Similarly, the District's contract with SCWA for supplying water to Service Area 2 would not be impacted during a normal year.

### **3.6.2 Single Dry-Year and Multiple Dry Year Water Supply Availability**

The District anticipates no change in the available water supply during a dry year. Dry-year supplies include supply reductions attributable to hydrologic droughts and regulatory curtailments. Should any supply issues arise with SCWA, the District would be able to ensure its supply needs are met by increasing its groundwater pumping. A more likely scenario is if SCWA has reductions in its surface water supply, it will increase groundwater production to meet its water needs including its contractual obligation with the District.

### **3.6.3 Water Supply Summary**

The District has two water sources; pumped groundwater and wholesale water purchased from SCWA. For Service Area 1, all the water is provided through the District's eight groundwater wells. These wells are located within the Central Basin that is hydrologically stable and shows no signs of overdraft. Furthermore, the groundwater level underlying the District's service area has increased by approximately 10 feet in the last decade, as shown in **Figure 3-5**. These facts demonstrate that the groundwater supply is stable and will provide the District with reliable supplies to meet projected demands in all year types.

Service Area 2 is supplied through a wholesale water contract with SCWA. The water provided by SCWA is composed of both groundwater and surface water. SCWA is currently engaged expanding its available water sources through recycled water and greater surface water capacity, which may eventually result in more surface water in the wholesale delivery to Service Area 2. Moreover, transfer arrangements as described in **Section 3.6.5** may also provide long-term benefits to the District and SCWA in furthering its common interest in encouraging regional water supply reliability.

[This page intentionally blank]

## CHAPTER 4. WATER DEMAND CONDITIONS

Understanding water demand characteristics enables the Elk Grove Water District to reliably and cost-effectively manage its water supplies to meet customer needs. This section characterizes the District's retail customer demands over the next few decades. Specific water demand characteristics such as how demands vary among different land use classifications and under differing hydrologic conditions, all help illustrate customer needs under variable conditions. As such, this section is organized as follows:

- ♦ Review and refinement of the *2020 Urban Water Use Target* - This subsection presents the review and refinement of 2015 and 2020 water use targets as allowed under CWC §10608.20(g).<sup>27</sup>
- ♦ Compliance with *Interim 2015 Urban Water Use Target* – This subsection documents the derivation of the 2015 GPCD value and comparison to the 2015 interim target.
- ♦ Historic and Current Water Demands – This subsection presents data reflecting the historic and current water demand conditions for residential and non-residential customers in the District.
- ♦ Future Water Demands – This subsection presents the derivation of future demands for potable and non-potable water within the District's service area, including land-use classifications, unit demand factors, and estimation of non-revenue water.
- ♦ Summary of Water Demands – This subsection presents a summary of the projected current and future water demands in five-year increments.

### 4.1 Review and Refinement of GPCD Targets

As detailed in the District's 2010 UWMP, population, residential connections, and water production data were used to generate a gallon per capita day (GPCD) baseline of 253 gpcd. From this GPCD baseline, the District assessed and determined a *2020 Urban Water Use Target* and an *Interim 2015 Urban Water Use Target*. These values were determined to be 202 and 227, respectively, as presented in the 2010 UWMP.<sup>28</sup>

---

<sup>27</sup> 10608.20(g): *An urban retail water supplier may update its 2020 urban water use target in its 2015 urban water management plan required pursuant to Part 2.6 (commencing with Section 10610).*

<sup>28</sup> Elk Grove Water District 2010 UWMP, p. 11 (available at: [http://www.water.ca.gov/urbanwatermanagement/2010uwmps/Elk%20Grove%20Water%20District/FINAL%20Elk%20GroveWD\\_2010-UWMP\\_6-22-11\\_Text.pdf](http://www.water.ca.gov/urbanwatermanagement/2010uwmps/Elk%20Grove%20Water%20District/FINAL%20Elk%20GroveWD_2010-UWMP_6-22-11_Text.pdf))

According to the DWR Guidebook, a retail water purveyor who did not use actual 2010 Census data must re-calculate its baseline using the available 2010 Census data.<sup>29</sup> For the District's 2010 UWMP, the 2010 Census data was not fully available, causing the District to use other methods to estimate 2010 population.<sup>30</sup> Thus, the District must recalculate its baseline GPCD and re-establish its target and interim-target values with the available 2010 Census data.<sup>31</sup> Additionally the UWMP Guidebook added detail to the population analysis procedures.

To recalculate the annual GPCD values using the 2010 Census data, the District utilized the available population tool from DWR. Use of this tool requires uploading of specific files that define the District's service area for 1990, 2000, and 2010 – as each of those periods potentially have varied service area boundaries. The result of the analysis provided a new population value for 2010 and, based upon the prior connection data, new population estimates for the period 1995 through 2010. New population values divided into the previously determined gross water values (as documented in the 2010 UWMP) provided revised GPCD values for this period. **Table 4-1** provides a comparison of the yearly population and GPCD estimates from the 2010 UMWP and as revised using 2010 Census data.

Notable, the population from 1995 to 2000 was recalculated higher than the original values presented in the 2010 UWMP. This resulted in lower annual gpcd values than previously determined. Using the revised annual GPCDs, new values were calculated for five of the six 10-year time periods ending no earlier than December 31, 2004 and no later than December 31, 2009.<sup>32</sup> The comparative results are shown in **Table 4-2**. As expected, the use of 2010 Census data did have a significant effect on the estimated baseline values, lowering the highest average baseline value from 253 gpcd to a new value of 239 gpcd. Using the Method 1 target approach, the modified baseline results in a modified 2015 Interim GPCD Target and 2020 GPCD Target.

---

<sup>29</sup> "If an agency did not use 2010 U.S. Census data for its baseline population calculations in the 2010 UWMP (the full census data set was not available until 2012) the agency must re-calculate its baseline population for the 2015 UWMPs using 2000 and 2010 Census data. This may affect the baseline and target GPCD values calculated in the 2010 UWMP, which must be modified accordingly in the 2015 UWMP." (2015 Urban Water Management Plans: Guidebook for Urban Suppliers, DWR, January 2016, p. 5-8)

<sup>30</sup> The District's 2010 UWMP used U.S. Census data, but calculated 2010 population based on residential connection information.

<sup>31</sup> According to CWC Section 10608.20(g), the City may also re-assess the methodology chosen to determine its 2015 and 2020 GPCD targets and update these targets, even if the 2010 population data was appropriate.

<sup>32</sup> The District did not include gross water use data beyond 2007, so only the first four of the six timeframes were averaged.

**Table 4-1 – Revised Annual GPCD using 2010 Census Data<sup>33</sup>**

Year	From 2010 UWMP			For 2015 UWMP	
	Gross Water	Population	GPCD	Revised Population	Revised GPCD
1995	6,116	20,205	270	22,234	246
1996	6,189	19,615	282	22,776	243
1997	5,938	20,458	259	23,319	227
1998	5,686	21,300	238	23,863	213
1999	6,476	21,065	274	24,408	237
2000	6,411	24,390	235	24,954	229
2001	6,958	24,390	255	26,444	235
2002	7,880	28,525	247	27,940	252
2003	7,972	30,040	237	29,339	243
2004	8,494	31,800	238	30,831	246
2005	7,915	32,950	214	32,321	219
2006	9,388	33,495	250	33,817	248
2007	9,962	33,900	262	35,315	252
2008	9,437	Not in 2010 UWMP		36,567	230
2009				38,135	n/a
2010	6,941	34,550	179	39,694	156

**Table 4-2 – Comparison of baseline and target values**

Baseline Period	Baseline Values		2015 Target		2020 Target	
	Original	Revised	Original	Revised	Original	Revised
1995-2004	253	237	228	213	202	190
1996-2005	248	234	223	211	198	187
1997-2006	245	235	220	211	196	188
1998-2007	245	237	221	214	196	190
1999-2008	n/a	239	n/a	215	n/a	191

Pursuant to CWC 10608.20(g) the District may choose to select a different method for calculating its 2020 GPCD target. Upon review of the analysis in the 2010 UMWP that resulted in the choice of Method 1, the District finds no reason to vary from the prior method choice. Thus, the District is officially using Method 1 to establish its 2020 GPCD target. However, to accurately reflect the use of the 2010 Census data, the District

<sup>33</sup> The 2010 UWMP did not include values for 1997, citing lack of data. This table presents 1997 as the average between 1996 and 1998 for simplicity. Also, the 2010 UWMP did not provide population data for 2008 or 2009, nor gross water use values for 2009.

will modify its 2020 GPCD Target to be 191 gpcd and its 2015 Interim GPCD Target to be 215 gpcd (see **Table 4-2**).

## 4.2 Compliance with 2015 Interim Target

Pursuant to CWC Section 10608.40, the District is to report to DWR on its progress in meeting its urban water use targets as part of its 2015 UWMP. As part of the progress reports, the District should include its “compliance daily per capita water use” (Compliance Value), which is the gross water use during the final year of the reporting period, reported in gallons per capita per day (gpcd).<sup>34</sup> Documentation of the Compliance Value must include the basis for determining the estimates, including references to supporting data. Furthermore, pursuant to CWC Section 10608.24(a), the District must demonstrate that it has met its 2015 Interim GPCD Target as of December 31, 2015 through its calculation of its 2015 Compliance Value.

Extending the population analysis that was revised during the reassessment of the baseline GPCD, the District is able to calculate its 2015 Compliance Value. **Table 4-3** presents the extended population calculation for 2011 through 2015, the associated gross water use in each year, and the resulting annual GPCD. As demonstrated, the District’s 2015 Compliance Value is 111 gpcd, which is significantly below the 2015 Interim GPCD value of 215.

**Table 4-3** – Annual GPCD for 2010 through 2015

Year	Population	Gross Water Use (af/yr)	GPCD
2010	39,694	6,941	156
2011	40,326	7,499	166
2012	40,960	8,117	177
2013	41,594	7,912	170
2014	42,230	6,414	136
2015	42,867	5,311	111

Though the 2015 Compliance Value seems impressive, the District does not believe it represents the actual progress toward its 2020 GPCD Target conditions due to two factors: (1) weather conditions in 2015, and (2) mandatory conservation requirements imposed by the State Water Resources Control Board. While normalizing for weather is recognized and suggested in statute<sup>35</sup>, with a tool available from DWR to perform the

<sup>34</sup> CWC § 10608.12(e).

<sup>35</sup> CWC Section 10608.24(d)(1)(A)



calculation, the State mandated conservation likely had a greater downward effect on the 2015 Compliance Value.

Although adjustments for weather are allowed, they are not required.<sup>36</sup> Because the District's 2015 Compliance Value demonstrates that the District is in compliance with the statutes, it has elected to not adjust the 2015 Compliance Value for weather. However, it has chosen to adjust the value to understand what 2015 GPCD conditions may have been absent the State conservation mandate so that it can appropriately assess progress toward its 2020 Target GPCD.

One option for the District to understand its progress toward the 2020 Target GPCD is to look at the most recent "average" year, which would be 2012 or 2013. In both of these years there were no mandatory conservation measures, weather was not significantly different than average conditions (though 2013 was the beginning of the current drought cycled), and the region was recovering from the recent recession. The GPCD values for 2012 and 2013 were 177 and 170 gpcd respectively, already well below revised 2020 Target GPCD value of 191 gpcd and the revised 2015 Interim GPCD Target of 215 gpcd (see **Table 4-3**).

Another option is to adjust the 2015 GPCD value to remove the conservation achieved by the District during its efforts to comply with the State's mandate. The State had mandated the District meet a 28% conservation goal between June 2015 and February 2016. Through December 2015, the District successfully achieved a 36.1% cumulative savings (compared to 2013 conditions – which was the State's baseline).<sup>37</sup> There are multiple methods to normalize the 2015 water use for the months of June through December. Using a few simple multiplier approaches the actual gross water production in 2015 of 5,311 acre-feet would increase to between 6,500 and 7,000 acre-feet. Using an average of 6,750 acre-feet of normalized 2015 gross water production, the 2015 GPCD would adjust from 111 gpcd to 141 gpcd. This normalized value is still well below the 2015 Interim GPCD Target and the 2020 GPCD Target. From this information, the District concludes that it is on track to achieve its 2020 GPCD Target when it reports the 2020 Compliance Value in its next UWMP update. The District recognizes that a primary factor in this early success was efforts to becoming fully metered and charge customers based upon volumetric use, coupled with the District's strengthen conservation education and outreach programs.

---

<sup>36</sup> CWC Section 10608.24(d)(2)

<sup>37</sup> Based on report from the SWRCB available at:

[http://www.waterboards.ca.gov/water\\_issues/programs/conservation\\_portal/docs/2016feb/suppliercompliance\\_020216.pdf](http://www.waterboards.ca.gov/water_issues/programs/conservation_portal/docs/2016feb/suppliercompliance_020216.pdf)

### 4.3 Current and Forecast Water Demands

Based on available records for water production, water sales and deliveries, the District's water demands for the past five years were previously presented in **Table 4-3**. As demonstrated by the populations presented in the table, the District experienced about an 8 percent overall growth since the 2010 UWMP, about 1.5 percent annually. And, as described in Chapter 2, the District will continue to experience some modest growth during the 2015 UWMP planning horizon, primarily in Service Area 2.

Forecasting future demand requires assessing several factors: the future water use habits of existing customers that will lower their existing use, the land use plans demonstrating types of anticipated growth, and the various laws and regulations that govern future water use demand factors such as water-efficient fixtures, appliances, and landscaping.

#### 4.3.1 Existing Customers

As described in Chapter 2, the District serves two primary areas within the City of Elk Grove with a variety of residential and non-residential customers with varying uses. Existing potable water customers are categorized into discrete residential and non-residential land-use classifications as presented in **Table 4-4**.

With account numbers and meter data, the existing unit demand factors for each potable water classification can be determined. This information provides a baseline for estimating the future demands of existing customers. **Table 4-4** provides the baseline demand factors for each land use category using 2013 account and meter data. The District believes 2013 was more representative of average conditions, and understood that the data would be skewed if 2014 or 2015 customer use data were used for baseline conditions. This is confirmed further when reviewing the GPCD values in **Table 4-3**.

Because a vast majority of the existing customers reside in Service Area 1 in homes built before the last decade, existing customers' future unit demand factors are assumed to change mostly from drivers such as fixture replacement, the District's conservation awareness and incentive programs, and other factors affecting a general increased awareness of water conservation. A reflection of the impact of these drivers is presented as the unit demand factors for new residences also provided in **Table 4-4**. The future demand factors reflect a reduction from the current value in all categories resulting from expected conservation. This reduction is reasonable as it reflects expected benefits of ongoing customer conservation efforts, coupled with the use of 2013 for baseline conditions.

**Table 4-4 – Existing Customer Characteristics**

		Existing Customers			
Land-class	Current (Accounts or Acres)	Current Demand Factors (af/account)	Future Demand Factors (af/account)	Conservation	
Service Area 1	Residential				
	RD-5 Late 80s	2889	0.58	0.50	14%
	RD-5 Late 70s	2301	0.51	0.43	15%
	RD-7	2308	0.44	0.38	13%
	Mobile Home Park	20	1.42	1.28	10%
	Apartments	37	3.79	3.35	12%
	Non-residential				
	Offices	60	0.28	0.26	5%
	Business Parks	89	1.50	1.35	10%
	Shopping Centers	75	2.63	2.25	14%
	General Commercial	7	3.85	3.30	14%
	Limited Commercial	9	1.22	1.04	14%
	Stand Alone Fast Food	2	4.87	4.17	14%
	Heavy Industry	12	1.62	1.38	14%
	Light Industry	93	0.29	0.25	14%
	Schools	61	1.86	1.77	5%
Elk Grove HS	41	0.41	0.39	5%	
Exist Parks	46	1.97	1.78	10%	
Open Areas	18	3.58	3.07	14%	
Service Area 2	Residential				
	RD-7	838	0.40	0.35	12%
	RD-3	625	0.57	0.48	17%
	RD-5	2269	0.49	0.42	14%
	Large Lots	205	1.35	1.14	15%
	No Yards	141	0.14	0.13	5%
	Apartments	8	3.93	3.37	14%
	Non-residential				
	Offices	2	0.17	0.16	5%
	Business Parks	4	1.84	1.58	14%
	Shopping Centers	42	2.14	1.83	14%
	Grocery Centers	10	3.63	3.45	5%
	Schools	99	2.34	2.11	10%
Exist Parks	44	3.14	2.99	5%	
Open Areas	17	4.48	3.84	14%	

## 4.3.2 Future Customers

There are several factors that affect the development of future unit water demand, which in turn affect the forecasted water demand for future customers. These factors range from state mandates such as the Cal Green Code and MWELo (discussed later in this section), to changes in the types of housing products being offered. These are incorporated into the determination of future unit water demand factors, discussed later in this chapter. Characteristics of the most important factors are described below

### *4.3.2.1 Factors Affecting Future Water Demands*

These following factors are generally recognized to result in lower per unit demand factors for future residential and non-residential customers. A brief discussion of each follows:

#### **Water Conservation Objectives:**

On November 10, 2009, Governor Arnold Schwarzenegger signed SBX7 7, which required each urban water supplier to reduce their per-capita water use by 2020, with a statewide goal of achieving a 20-percent reduction by 2020.<sup>38</sup> As discussed previously, the District has established a 2020 Target GPCD in response to this requirement and is already in compliance with that target.

Achieving the District's 2020 conservation target will require the District to continue its on-going conservation efforts. But, as illustrated by the compliance analysis previously discussed, the District has already achieved its goal – even when normalizing the data for the last normal water year (2012 and 2013). New customers will likely further reduce the District's annual GPCD since the factors described below are designed to further reduce per capita water use.

#### **Indoor Infrastructure Requirements**

In January 2010, the California Building Standards Commission adopted the statewide mandatory Green Building Standards Code (hereafter the "CAL Green Code") that requires the installation of water-efficient indoor infrastructure for all new projects beginning after January 1, 2011. The Cal Green Code was revised in 2013 with the revisions taking effect on January 1, 2014. However these revisions do not have substantial implications to the water use already contemplated by the 2010 Cal Green Code.<sup>39</sup> The CAL Green Code applies to the planning, design, operation, construction, use and occupancy of every newly constructed building or structure.

---

<sup>38</sup> California Water Code § 10608.20

<sup>39</sup> "The 2010 CAL Green Code was evaluated for updates during the 2012 Triennial Code Adoption Cycle. The state evaluated stakeholder input, changes in technology, implementation of sustainable building goals in California, and

All new developments must satisfy the indoor water use standards directed by the CAL Green Code, which essentially require new buildings and structures reduce overall potable water use by 20 percent. Expected future customers will satisfy the standards through the use of appliances and fixtures such as high-efficiency toilets, faucet aerators, on-demand water heaters, or other fixtures as well as Energy Star and California Energy Commission-approved appliances.

### **California Model Water Efficient Landscape Ordinance**

The Water Conservation in Landscaping Act was enacted in 2006, requiring the California Department of Water Resources (DWR) to update the Model Water Efficient Landscape Ordinance (MWELo).<sup>40</sup> In 2009, the Office of Administrative Law (OAL) approved the updated MWELo, which required a retail water supplier or a county to adopt the provisions of the MWELo by January 1, 2010, or enact its own provisions equal to or more restrictive than the MWELo provisions.<sup>41</sup>

In response to the Governor's executive order dated April 1, 2015, (EO B-29-15), DWR updated the MWELo and the California Water Commission approved the revised MWELo on July 15, 2015. The changes include a reduction to 55% for the maximum amount of water that may be applied to a landscape for residential projects, which reduces the landscape area that can be planted with high water use plants, such as turf. The MWELo applies to new construction with a landscape area greater than 500 square feet (the prior MWELo applied to landscapes greater than 2,500 sf).<sup>42</sup> For residential projects, the coverage of high water use plants is reduced to 25% of the landscaped area (down from 33% in the 2010 MWELo).

It is difficult to predict the ultimate impact of the MWELo requirements on future water demand. While the requirement is for development of a landscape design plan that uses plants and features that are estimated to use no more than 55 percent of ETo, some provision must be made for the inherent tendency to over-water even with irrigation controllers installed, piecemeal changes in landscape design, reductions in irrigation efficiency through product use, and limited resources for enforcement in the absence of dedicated irrigation meters.

---

changes in statutory requirements. As such, the scope of the CAL Green Code was increased to include both low-rise and high-residential structures, additions and alterations." *Guide to the 2013 California Green Building Standards Code (Residential)*, California Department of Housing and Community Development, 2013.

<sup>40</sup>Gov. Code §§ 65591-65599

<sup>41</sup> California Code of Regulations (CCR), Tit. 23, Div. 2, Ch. 27, Sec. 492.4. The MWELo provides the local agency discretion to calculate the landscape water budget assuming a portion of landscape demand is met by precipitation, which would further reduce the outdoor water budget. For purposes of this 2015 UWMP, precipitation is not assumed to satisfy a portion of the outdoor landscape requirement because the determination of an appropriate effective precipitation factor is highly uncertain given the various landscape slopes, terrain composition, concurrent watering schedules, etc.

<sup>42</sup> CCR Tit. 23, Div. 2, Ch. 27, Sec. 490.1.

## California Urban Water Conservation Council BMPs

The District is a signatory to the California Urban Water Conservation Council (CUWCC) Best Management Practices (BMP) Memorandum of Understanding (MOU). Due to this affiliation, the District has modified existing BMPs and implemented others to follow that of the CUWCC. These practices further reduce the District's demands. Further details on the District's conservation efforts can be found in **Chapter 5**.

### 4.3.2.2 Future Unit Demand Factors

When considering the various factors discussed above, coupled with a review of current customer use characteristics, the District has established the demand factors presented in **Table 4-5** for estimating future customer demand. With Service Area 1 mostly built-out, the majority of growth is expected in Service Area 2.

**Table 4-5** – Future Customer Accounts and Demand Factors

	Land-class	Future (Accounts or Acres)	Future Demand Factors (af/account)
Service Area 1	Residential		
	RD-5 New	44	0.38
	RD-20 Apartment	75	0.21
	Non-residential		
	Future Comm. Center	45	1.20
	Future Industrial	60	1.50
Service Area 2	Residential		
	Future No Yards	261	0.12
	Future RD-10	172	0.21
	Future RD-5	1242	0.38
	Future Large Lots	137	0.95
	Future Apartments	200	0.21
	Non-residential		
	New Commercial	27	1.20
	New Industrial	64	1.50
	Future Business/Professional	2	0.70
	Future Schools	10	2.00
Future Parks	21	3.00	

### 4.3.3 Demand Forecast Summary

Water demand projections within the District’s service area reflect the combination of continued conservation by existing customers and the addition of new customers over the planning horizon.

**Table 4-6** provides the summation of this analysis and the resulting expected demands for each 5-year planning horizon.

### 4.3.4 Distribution System Water Losses

The demand factors presented earlier in this chapter represent the demand for water at each customer location. To fully represent the demand, distribution system losses must also be included. Often, distribution system losses represent water that is lost due to system leaks, fire protection, construction water, unauthorized connections, and inaccurate meters. Essentially, this is the water that is produced by the District’s groundwater production wells that does not make it to the customer – either as a real loss or an apparent loss (e.g. such as may result when a customer meter underreports actual use).

In most instances, the predominant source of distribution system losses is from leaks that inevitably exist throughout the many miles of pipes that bring water to the District’s customers.

Pursuant to CWC 10631(e)(3)(B), the District must quantify and report the distribution system loss for 2015 using methodology developed by the American Water Works Association (AWWA) and provided as a worksheet through DWR. Using the available worksheet, the District calculated a loss equal to [ ] percent of the water supplied into the distribution system. The AWWA spreadsheets are included as **Appendix E-1**.

For purposes of estimating future demand from new connections, the distribution system loss is assumed to be 8 percent to reflect on-going District programs to address meter inaccuracies, and find and fix identified system leaks.<sup>43</sup>

---

<sup>43</sup> For purposes of estimating this quantity when viewed from the customer meter looking back to the “beginning” of the water supply distribution system, a slightly higher value is multiplied by the customer demands, then added to those demands to reflect a total projected demand.

**Table 4-6 – Projected Water Demands**

Land-class			Forecast Demand (af/yr)					
			2020	2025	2030	2035	2040	2045
Service Area 1	Single Family	Existing	3,563	3,385	3,320	3,320	3,320	3,320
		Future	6	14	17	17	17	17
		Subtotal	3,570	3,399	3,337	3,337	3,337	3,337
	Multi-Family	Existing	161	153	150	150	150	150
		Future	0	16	16	16	16	16
		Subtotal	161	169	166	166	166	166
	Non-Residential	Existing	419	399	386	386	386	386
		Future	20	68	122	144	144	144
		Subtotal	439	466	507	530	530	530
	Public	Existing	270	263	260	260	260	260
		Future	0	0	0	0	0	1
		Subtotal	270	263	260	260	260	261
	Subtotal		4,440	4,297	4,270	4,293	4,293	4,294
	System Loss		400	387	384	386	386	386
Service Area 1 Total		4,839	4,684	4,655	4,679	4,679	4,680	
Service Area 2	Single Family	Existing	1,924	1,836	1,779	1,779	1,779	1,779
		Future	173	475	581	600	619	638
		Subtotal	2,097	2,311	2,361	2,380	2,399	2,418
	Multi-Family	Existing	31	30	28	28	28	28
		Future	12	73	73	73	73	73
		Subtotal	43	103	102	102	102	102
	Non-Residential	Existing	127	122	118	118	118	118
		Future	28	70	109	129	129	129
		Subtotal	155	192	226	247	247	247
	Public	Existing	421	407	403	403	403	403
		Future	30	84	84	84	84	84
		Subtotal	451	490	487	487	487	487
	Subtotal		2,746	3,097	3,175	3,215	3,234	3,253
	System Loss		247	279	286	289	291	293
Service Area 2 Total		2,993	3,375	3,461	3,504	3,525	3,545	
<b>Total District Demand</b>		<b>7,832</b>	<b>8,059</b>	<b>8,116</b>	<b>8,183</b>	<b>8,204</b>	<b>8,226</b>	

**4.3.5 Low Income Water Demands**

CWC Section 10631.1 requires water suppliers to include a projection of water use by lower income households as defined by Health and Safety Code Section 50097.5. The



housing element of the City’s General Plan provides the income distribution used for this analysis.<sup>44</sup> This housing element, adopted in [redacted], uses data from U.S. Census Bureau 2005-2009 American Community Survey. The income limits for “lower income” come from U.S. Department of Housing and Urban Development’s 2009 income guidelines.<sup>45</sup>

The percentage of low income was used from the same housing element table. According to the 2007-2011 American Community Survey (ACS), [update with City data]. Using [redacted] percent of the projected population, a demand factor from the multi-family housing units of approximately 0.21 acre-foot per year, and 3.7 people per housing unit, the current and future demand from “lower income” customers is estimated (see **Table 4-7**). These demands are already incorporated in the demand forecast presented in **Table 4-6**.

**Table 4-7 – Projected Low Income Household Water Demands**

---

<sup>44</sup> City of Elk Grove General Plan- 2013-2021 Housing Element Update, p. [redacted]

<sup>45</sup> The income guidelines place households who make less than 80% of the median family income for an area as “low income.” This is in line with the CWC 10631.1 income threshold.

[This page intentionally left blank]

## CHAPTER 5. WATER DEMAND MANAGEMENT MEASURES

### 5.1 District Participation

CWC § 10631 requires that an UWMP include a description of the urban water supplier's water demand management measures. CWC § 10631 also provides that members of the California Urban Water Conservation Council (CUWCC) shall be deemed in compliance with the UWMPA demand management measure requirements by complying with all the provisions of the CUWCC MOU and by submitting the annual reports.<sup>46</sup>

The CUWCC MOU for Best Management Practices (BPM) is organized into five categories. Two categories, utility operations and education, are "Foundational BMPs" because they are considered to be essential water conservation activities by any utility and are adopted for implementation by all signatories to the MOU as ongoing practices with no time limits. The remaining BMPs are "Programmatic BMPs" and are organized into residential indoor and landscape, commercial/industrial/institutional (CII) indoor and landscape, and CII dedicated large landscape categories.<sup>47</sup> All the categories are outlined in **Table 6-1**.

The District is a current member of CUWCC and has submitted annual reports to the Council, complying with CWC § 10631. A copy of the most recent report from 2013-2014 is available in **Appendix D-1**. As a signatory to the CUWCC MOU, the District is committed to implementing best management practices (BMP) designed to achieve water conservation across existing and future demand sectors. The CUWCC MOU requires that a water utility implement only the BMPs that are economically feasible. The District's continued implementation of the CUWCC BMPs should reduce some of the unit demand factors for its existing connections and help maintain the unit demand factors for future connections.

---

<sup>46</sup> CWC § 10631(j)

<sup>47</sup> <https://www.cuwcc.org/Resources/BMP-Resources>

**Table 5-1: CUWCC BPM Requirements<sup>48</sup>**

<b>FOUNDATIONAL BMPS</b>	
<b>1. Utility Operations Programs</b>	
<b>1.1 Operations Practices</b>	
	Staff and maintain the position of a trained conservation coordinator
	Enact and enforce an ordinance designed to prevent water waste
	Enact and enforce an ordinance designed to promote water efficient design in new development
	Enact and enforce an ordinance designed to facilitate water shortage response measures
<b>1.2 Water Loss Control</b>	
	Compile a standard water audit and balance annually
	Improve data accuracy and completeness of water audit during first four years
	During 5th through 10th year, demonstrate progress in water loss control
<b>1.3 Metering with Commodity Rates for All New Connections and Retrofit of Existing Connections</b>	
	Initiate volumetric billing for all metered customers within one year after signing MOU
	Complete meter installations for all connections no later than July 1, 2012
	Assess feasibility of moving mixed-use metered landscape uses to dedicated landscape meters
	Develop a written plan, policy or program to test, repair or replace meters
<b>1.4 Retail Conservation Pricing</b>	
	Develop water rates such that 70% of revenue is generated from volumetric billing
	Develop conservation pricing for retail sewer service
<b>2. Education Programs</b>	
<b>2.1 Public Information Programs</b>	
	Implement public information programs to promote water conservation and water-conservation benefits
<b>2.2 School Education Programs</b>	
	Educate students about water conservation and efficient water use
<b>PROGRAMMATIC BMPS</b>	
<b>3. Residential</b>	
	Develop a Residential Assistance Program - including leak detection assistance, conservation surveys, and efficiency suggestions, as well as provision of high-efficiency appliances
	Perform site-specific landscape water surveys
	Provide financial incentives for, or institute ordinances requiring, purchase of efficient clothes washers
	Provide incentives or ordinances for replacement of toilets using 3.5 or more gallons per flush
<b>4. Commercial, Industrial and Institutional</b>	
	Implement measures to achieve water savings for Commercial, Industrial and Institutional (CII) accounts of 10% compared to baseline water use (i.e., 2008 water use by CII accounts)
<b>5. Landscape</b>	
	Identify accounts with at least one dedicated irrigation meter and assign an ETo based budget of no more than an average of 70% of ETo for metered irrigation uses; "Recreational" areas may be so designated and may use up to 100% of ETo
	Provide notices to irrigation meter customers comparing actual use to the water budget
	Offer site-specific technical assistance to those accounts at least 20% over budget
	Target and market landscape surveys to CII accounts with mixed-use meters, and those CII accounts with large landscapes and offer financial incentives to both

<sup>48</sup> <https://www.cuwcc.org/Resources/BMP-Resources>

## CHAPTER 6. WATER SHORTAGE CONTINGENCY PLAN

As an urban water purveyor, the District must meet the minimum health and safety requirements of a drinking water purveyor at all times. The District has created a Water Shortage Contingency Plan (WSCP) to help meet this goal during water shortages. The full version of this plan can be found in **Appendix D-2**.

The strategy for allocating water during shortages for the District is complex. Detailed discussion of water supply, water shortage actions, catastrophic failure, financial impacts, and prohibitions during shortages is also provided in the District's WSCP. The District adopted its Water Shortage Contingency Plan through Ordinance No. 07-23-14-01. The ordinance provides for emergency water supply management related to general supply shortages due to severe droughts, infrastructure failure, or any other cause. While the current ordinance provides an adequate framework for managing supply shortages, it was also updated to reflect current conditions including the current drought and 20x20 legislation.<sup>49</sup> The District also coordinates regionally through the SCWA with respect to emergency water shortage planning and response.

### 6.1 Water Shortage Contingency Resolution

The District's current water shortage contingency plan allows for declaration of water shortages by the Board of Directors. When a shortage occurs, the District Board assesses if the stages of action discussed in **Section 6.2** should be implemented. In 2014, Ordinance No. 07-23-14-02 modified the outdoor irrigation schedule for the WSCP.<sup>50</sup>

### 6.2 Stages of Action and Reduction Goals

The District has developed a five-stage shortage contingency plan as shown in **Table 6-1**. Each stage corresponds to an increased demand reduction target to align with anticipated supply availability. The shortage contingency plan includes voluntary and mandatory actions that expand under each stage, depending on the cause, severity, and anticipated duration of the water supply shortage. The details of these stages are provided in the WSCP found in **Appendix D-2**.

---

<sup>49</sup> FRCD Ordinance 07-23-14-02

<sup>50</sup> FRCD Ordinance 07-23-14-02

**Table 6-1: Drought Stages Contingency Plan**

Stage	Water Supply Conditions	Response Actions
Stage 0 - Normal Water Supply	Normal water supplies	Regular water efficiency measures
Stage 1- Water Alert	Slightly restricted water supplies	Added irrigation restrictions and up to a 10% water use reduction
Stage 2 - Water Warning	Moderately restricted water supplies	Greater landscape irrigation restrictions, increased mandatory prohibited uses and up to a 25% water use reduction
Stage 3- Water Crisis	Highly restricted water supplies	No new water connections, excessive usage rate surcharge and up to a 50% water use reduction
Stage 4 - Water Emergency	Severely restricted water supplies	Public health and safety restrictions and over 50% water use reduction

### 6.3 Mandatory Prohibitions on Water Waste

As part of the WSCP, intentional or unintentional water waste is prohibited and the beneficial use of water is encouraged.<sup>51</sup> Allowing cooling fixtures to leak, maintaining water features without recirculation devices, and the use of open hoses are a few examples of actions that would qualify as water waste under the regulation. Details on the prohibited types of use for each stage of action are also outlined below in **Section 6.5**.

### 6.4 Penalties

The District provides the stages of penalties for violators of the water waste regulation. The penalties are enforced through the application of FRCD Ordinance No. 06-24-15-01. For the first violation, the District shall issue a written notice of the violation to the customer. For the subsequent violation, a written warning of the violation is sent to the customer. For the third violation within the preceding 12 calendar months a \$200 fine

<sup>51</sup> See Appendix D-2

will be imposed and a mandatory water audit will occur. Customers will also have the option of attending water school instead of owing the fine. For the fourth violation within the preceding 12 calendar months a \$500 fine will be imposed and a flow restriction device will be installed. For the fifth violation within the preceding 12 calendar months a \$500 fine will be imposed and water service will be shut off.<sup>52</sup>

## **6.5 Consumption Reduction Methods**

CWC 10632 (a)(1) requires that all water purveyors establish stages of action to be undertaken in the event of a water shortage. The code section also specifies that a 50 percent reduction in supply must be considered and addressed. This specific supply reduction is addressed at Stage Four in **Section 6.5.4**. It should be noted that the following sections on each stage of action are a summary of the key points established by the District in its WSCP. For the full body of text and all the details of each stage please refer to these documents in **Appendix D-2**.

### **6.5.1 Stage Zero – Normal Water Supply**

Stage Zero during normal water supply does not restrict customers use of water. Stage Zero does prohibit customers from wasting water. Water waste includes allowing irrigation water to run off onto an adjoining property, ditch, or gutter; watering within 48 hours of measurable rainfall; using hoses without automatic shutoff nozzles; washing down driveways and other paved areas; failing to repair water leaks; and using non-recirculated water in fountains and water features.

### **6.5.2 Stage One – Water Alert**

If water supplies become slightly restricted and the District will be unable to meet all of its demands under normal supply conditions, the Plan calls for Stage 1 drought response. During this stage, customers are informed of possible shortages and asked to voluntarily conserve 10 percent. Additionally, some mandatory restrictions including irrigation restrictions by geographic zones based on a set schedule and not allowing any potable water use for dust control, compaction or trench jetting will be implemented.

### **6.5.3 Stage Two – Water Warning**

Stage 2 is implemented in the event the District is unable to meet all its water demands under Stage 1. The District will continue to encourage community-oriented voluntary conservation measures, enforce some conservation measures and implement mandatory water use reduction. The District is also a member of the Regional Water Authority, which undertakes many regionally-based public outreach programs on behalf of its members to assure consistent messaging throughout the greater Sacramento region.

---

<sup>52</sup> See **Appendix D-2**

Stage 2 activities include a continuation of activities described under Stage 1 and 2, as well as greater conservation and water use restrictions. Stage 2 also restricts landscape watering to two days a week in a two-hour allowable block.

#### **6.5.4 Stage Three – Water Crisis**

Stage 3's primary purpose is to reduce water use by 50 percent. In addition to all the voluntary and mandatory restrictions previously implemented under the earlier stages, no new water connections will be added, the maximum system operating pressure is 40 psi and usage above a customers' allotment is billed at 150 percent the normal rate.

#### **6.5.5 Stage Four – Water Emergency**

Stage Four's purpose is to ensure the protection of the water supply for all public health and safety purposes. This stage will require reductions in water demand by over 50 percent. Under this stage, all previous conservation restriction will apply, and landscape irrigation will be allowed once a week within a one-hour window.

### **6.6 Revenue and Expenditure Impacts**

When a drought or water shortage occurs, the District's costs will increase due to the additional activities and duties of instituting a stage of action. Not only will there be costs for materials, and time from permanent staff, but additional staff may need to be hired to assist in implementing the WSCP. As conservation measures and requirements increase and the water supply decreases, the District will potentially see a fall in revenue. To combat this and help pay for the expenses discussed above, a drought surcharge may be implemented by the District. This will help compensate for the loss of water revenue and pay for drought related costs. Additional revenue will further be provided by the penalties incurred by excessive water users as discussed in **Section 6.4** and the 150 percent rate increase in Stage 3.

### **6.7 Conservation Rate Structures**

As discussed above in **Section 6.5.4**, a drought surcharge will be added to rates in the event of a water shortage when a customer exceeds their allocation of water.

### **6.8 Reduction Measuring Mechanism**

The District became fully metered in the last few years, since completion of the 2010 UWMP. The District is now able to better measure and track reductions resulting from on-going conservation efforts or implementation of WSCP stages.



## 6.9 Catastrophic Supply Interruption

In addition to climate, other factors that can cause water supply shortages are earthquakes, chemical spills, dam failures, canal breaks, waterline ruptures, and energy outages at treatment and pumping facilities. With an integrated system that includes several groundwater wells and interties with SCWA, the District has taken adequate steps to protect its customers from unforeseen interruptions.

However, in conjunction with RWA and other interests, the District will continue to participate in the following:

- Regional Disaster Preparedness Plans
- Water System Vulnerability Assessment
- Emergency Response Plan

## 6.10 Minimum Supply Next Three Years

Pursuant to CWC Section 10632(a)(2), the District is required to estimate the water supplies available for the next three years, specifically 2016, 2017 and 2018. Because of diligent planning efforts, the District believes it has ample water supplies available to meet its demand during this time frame as detailed in **Section 3**. Any potential shortfall in supply that may occur will be addressed through combinations of demand reductions as detailed in the WSCP and the use of interties with neighboring purveyors.

However, because the District is fully reliant on groundwater and, as detailed in Chapter 3, groundwater conditions underlying the District are stable and sustainable, the District's supply during the next three years will simply equal the anticipated demand.

## 6.11 Current Drought

The current drought has impacted the District's drought and water shortage plans through Executive Orders and new statewide conservation goals. Executive Order B-29-15 required the District to achieve 25 percent water use reduction by June 2015. Similarly, the 2020 goal for a 20 percent reduction in water use encourages districts and end users to conserve more water. To comply with these conservation goals, the District has continued to promote conservation with all users. The District amended the WSCP in July 2014 with greater outdoor irrigation restrictions and implemented Stage 1.<sup>53</sup>

---

<sup>53</sup> FRCD Ordinance No. 07-23-14-02

The District is now in Stage 2 Plus in light of the continuing drought as of May 2015 (see **Appendix D-3**).<sup>54</sup> Stage 2 Plus seeks to have the District achieve a reduction in water usage by 28 percent, consistent with the State’s conservation mandate placed upon the District. Furthermore, this stage requires that water shall only be served in dining establishments upon request, no irrigation of medians with potable water and no irrigation during and up to 48 hours after rainfall.

---

<sup>54</sup> See **Appendix D-4**.

## CHAPTER 7. SUPPLY & DEMAND INTEGRATION

The purpose of this chapter is to compare the total water supply sources available to the District with the total projected water use over the next 25 years, in five-year increments, for a normal water year, a single-dry water year, and multiple dry water years.<sup>55</sup> Water supply and demand data presented in this section is presented in prior sections of this 2015 UWMP.

### 7.1 Average Water Year Conditions

Under this water supply scenario, the District would anticipate full availability of its groundwater supplies, both from SCWA and self-supplied. The resulting total supplies are set to match the forecasted demands from **Table 4-6** as shown in **Table 7-1**. As demonstrated, the District projects adequate water supplies through 2045 during average year conditions.

**Table 7-1 – Supply and Demand Comparison (Average Year)**

(acre-feet/yr)	Current	2020	2025	2030	2035	2040	2045
Supplies	8,142	7,832	8,059	8,116	8,183	8,204	8,226
Demands	8,142	7,832	8,059	8,116	8,183	8,204	8,226
Difference	--	0	0	0	0	0	0

### 7.2 Single Dry Year Conditions

In a single dry year condition, the District does not anticipate reductions to its groundwater supplies.

For purposes of this UWMP, the District’s forecast water demands are expected to increase in a single dry year. This increase represents the generalized expansion of the landscape irrigation season due to limited rainfall – meaning customers begin demanding supplies from the District earlier in the spring than during a normal year when rainfall would otherwise satisfy landscape water needs. Though the increase is dependent on actual conditions, it is represented by adjusting the normal year annual forecast demand value upward by 5 percent for each 5-year increment to 2045. This adjustment reflects rudimentary relationships between, historic use variances and other conditions and is

<sup>55</sup> This is consistent with CWC Section 10635, but extends the period an additional 5 years to provide “20 year” analysis coverage for the intervening years between UWMP updates.

meant only to highlight the anticipated increase in demands for purposes of District planning.

As shown in **Table 7-2**, the District anticipates adequate water supplies through 2045 during single dry year conditions.

**Table 7-2 – Supply and Demand Comparison (Single Driest-Year)**

(acre-feet/yr)	Current	2020	2025	2030	2035	2040	2045
Supplies	--	8,224	8,462	8,441	8,429	8,450	8,473
Demands	--	8,224	8,462	8,441	8,429	8,450	8,473
Difference	--	0	0	0	0	0	0

### 7.3 Multiple Dry Year Conditions

For purposes of this 2015 UMWP, the District has assessed a three-year series of dry conditions. As detailed in Chapter 3, the District does not anticipate reductions in available groundwater supplies during these multiple dry years.

Demand, however, will vary across this planning scenario. This variance is represented by setting the forecast demands for the first of three years equal to the demand used in the single dry year scenario. In the second year, the District would anticipate that its water shortage contingency plan (WSCP) would be triggered, resulting in a demand reduction for that year. The District’s WSCP Stage 1 reduction target of 10 percent is assumed (see Chapter 6). Similarly, in the third year, the District would expect further reductions resulting from implementing further WSCP actions. For this third year, the District’s Stage 2 reduction target is assumed to reduce demands by 25 percent.

This resulting analysis has been represented in **Table 7-3**. During each multiple dry year period projected in **Table 7-3**, the District anticipates adequate water supplies being available over the course of multiple dry years.

**Table 7-3 – Supply and Demand Comparison (multiple dry years)**

Year 1	(acre-feet/yr)	2020	2025	2030	2035	2040	2045
	Supplies	8,224	8,462	8,441	8,429	8,450	8,473
	Demands	8,224	8,462	8,441	8,429	8,450	8,473
	Difference	0	0	0	0	0	0
Year 2		2020	2025	2030	2035	2040	2045
	Supplies	7,402	7,616	7,597	7,586	7,605	7,625
	Demands	7,402	7,616	7,597	7,586	7,605	7,625
	Difference	0	0	0	0	0	0
Year 3		2020	2025	2030	2035	2040	2045
	Supplies	6,168	6,347	6,330	6,322	6,338	6,354
	Demands	6,168	6,347	6,330	6,322	6,338	6,354
	Difference	0	0	0	0	0	0

May 25, 2016

TO: Chairman and Directors of the Florin Resource Conservation District  
FROM: Stefani Phillips, Human Resource Administrator  
SUBJECT: **NEW CLASSIFICATION REQUEST – PROGRAM MANAGER**

## **RECOMMENDATION**

It is recommended that the Board adopt Resolution No. 05.25.16.01 approving the Florin Resource Conservation District/Elk Grove Water District Classification and Salary Study and authorizing associated changes to the Florin Resource Conservation District's Organization Chart and Elk Grove Water District Salary Schedule.

### **Summary**

In April 2016, CPS HR Consulting was retained to perform a classification and salary study to evaluate a proposed position of Program Manager. The Classification and Salary Study ("Study") (Attachment 1) recommended the salary range for the position of Program Manager to be Grade 69 of the Florin Resource Conservation District (FRCD) Salary Schedule.

If approved, the Board would create one new position to be added to the organization chart, remove one existing position from the current organization chart, and amend the salary schedule to incorporate the position of Program Manager.

## **DISCUSSION**

### **Background**

In March 2016, the District's Management Analyst retired leaving the position vacant. With that vacancy, several members of the Leadership Team reviewed the District's organizational needs moving forward. From that review, the Leadership Team feels that the duties and responsibilities listed in the classification specifications for the position of Management Analyst will not fully meet the needs of the organization. A list of duties and responsibilities was developed for the vacant position and the title of Program Manager was proposed.

CPS HR Consultant was retained in April 2016 to perform a classification and salary study for the proposed position of Program Manager. The CPS HR Consultant met with the Human Resources Administrator to discuss the parameters of the position including the major job duties and responsibilities. A second meeting occurred between the CPS HR

**NEW CLASSIFICATION REQUEST – PROGRAM MANAGER**

---

Page 2

Consultant, the General Manager, and the Human Resources Administrator to review and edit the draft Program Manager classification specifications.

The CPS HR Consultant presented the Draft Classification and Salary Study, which was thoroughly reviewed by the General Manager and Human Resources Administrator.

**Present Situation**

The attached Study is now complete and presented to the Board for your consideration.

The following actions are being recommended:

1. Create a new position of Program Manager

This new position will create added depth and support at the highest level of the organization. The Study also recommends that the salary range for this position be set at Grade 69 based on a comparison of similar positions at comparable agencies.

2. Eliminate the Management Analyst position from the Florin Resource Conservation District Organization Chart

If the new position of Program Manager is approved, the position of Management Analyst will not be a necessary role for the District. For this reason, the position of Management Analyst that is shown on the Florin Resource Conservation Districts Salary Schedule can be eliminated.

3. Modify the Florin Resource Conservation District Organization Chart to add the position of Program Manager

The position of Program Manager will report to the General Manager seen in the attached Florin Resource Conservation District Organization Chart (Attachment 2). The classification specifications is also included in the Study the Board's review.

4. Amend the Elk Grove Water District Salary Schedule to incorporate the Program Manager position and to reflect the established salary grade and range

**NEW CLASSIFICATION REQUEST – PROGRAM MANAGER**

---

Page 3

The salary schedule (Attachment 3) is attached for the Board's consideration. The hiring of a Program Manager is anticipated in August or September 2016. Amending the salary schedule to include Program Manager is a formality and no amendments will be necessary to the FY 2015-16 budget to accommodate the salary. The salary for the position of Program Manager will be reflected in the Elk Grove Water District Fiscal Year 2016-17 Budget.

**STRATEGIC PLAN CONFORMITY**

The Florin Resource Conservation District/Elk Grove Water District 2012-2017 Strategic Plan contains numerous goals for both the FRCD and the EGWD. The actions listed above comply generally with all of the District's values identified in the Strategic Plan and specifically with the EGWD goal of succession planning under the challenge of Workforce Development

**FINANCIAL SUMMARY**

The actions listed above will not impact the Elk Grove Water District FY 2015-16 Budget. The Elk Grove Water District FY 2016-17 Budget reflect the approved salary and benefit costs. At this time, no budgetary modifications are requested of the Board.

Respectfully Submitted,



STEFANI PHILLIPS  
HUMAN RESOURCES ADMINISTRATOR

attachments



**RESOLUTION NO. 05.25.16.01**

**RESOLUTION OF THE FLORIN RESOURCE CONSERVATION BOARD OF DIRECTORS APPROVING THE FLORIN RESOURCE CONSERVATION DISTRICT/ELK GROVE WATER DISTRICT CLASSIFICATION AND SALARY STUDY AND AUTHORIZING ASSOCIATED CHANGES TO THE FLORIN RESOURCE CONSERVATION DISTRICT'S ORGANIZATION CHART AND ELK GROVE WATER DISTRICT SALARY SCHEDULE**

**WHEREAS**, the District retained CPS HR Consulting to perform a classification and salary study to evaluate a proposed position of Program Manager for the Florin Resource Conservation District/Elk Grove Water District; and

**WHEREAS**, CPS HR Consulting has prepared the Florin Resource Conservation District/Elk Grove Water District Classification and Salary Study ("Study") providing recommendations; and

**WHEREAS**, the General Manager and Human Resources Administrator have received and reviewed the Study; and

**WHEREAS**, based on their review of the Study and an overall review of internal organizational needs, the General Manager and Human Resources Administrator have recommended various changes to the Florin Resource Conservation District Organization Chart and Elk Grove Water District Salary Schedule; and

**WHEREAS**, the General Manager and Human Resources Administrator hereby recommends approval of the Classification and Salary Study and changes to the Florin Resource Conservation District Organization Chart and Elk Grove Water District Salary Schedule.

**NOW, THEREFORE, BE IT RESOLVED** that the Florin Resource Conservation District Board of Directors, hereby:

1. Approve the Classification and Salary Study; and
2. Authorize the following changes to the Florin Resource Conservation District Organization Chart and Elk Grove Water District Salary Schedule:
  - I. Create a new position of Program Manager
  - II. Eliminate the Management Analyst position from the Florin Resource Conservation District Organization Chart
  - III. Modify the Florin Resource Conservation District Organization Chart to add the position of Program Manager
  - IV. Amend the Elk Grove Water District Salary Schedule to incorporate the Program Manager position and to reflect the approved salary by the General Manager

**PASSED, APPROVED, AND ADOPTED** this 25th day of May 2016.

**AYES:**

**NOES:**

**ABSENT:**

**ABSTAIN:**

---

Chuck Dawson  
Chairman of the Board of Directors

ATTEST:

---

Stefani Phillips  
Secretary to the Board of Directors

# Florin Resource Conservation District/ Elk Grove Water District

## Program Manager Classification and Salary Study

May 25, 2016

SUBMITTED BY:

*Brian G. Moritsch*  
*bmoritsch@cpshr.us*  
CPS HR Consulting  
t: 916-263-3600  
f: 916-561-8466  
Tax ID: 68-0067209  
[www.cpshr.us](http://www.cpshr.us)



# Table of Contents

I. Background..... 3

II. Classification Specifications ..... 3

III. Identification of Comparable Classifications..... 4

IV. Base Salary Study ..... 5

V. Base Salary Recommendation..... 7

Appendix A FRCD/EGWD Program Manager Classification Specifications ..... 8

Appendix B Comparable Classification Specifications from other Agencies..... 15

## I. Background

---

In April 2016, the Florin Resource Conservation District/Elk Grove Water District (FRCD/EGWD) retained CPS HR Consulting (CPS HR) to develop a classification specification and base salary study for its proposed Program Manager classification. Although the position was originally classified as a Management Analyst position, the FRCD/EGWD wanted to increase the scope of the position to include more program management responsibilities. Specifically, the Program Manager position would be responsible for: developing grant applications; analyzing legislation; and acting as the District's Conservation Coordinator, Public Information Officer, and Safety Officer. There were no incumbents in the Program Manager classification when the study was initiated.

## II. Classification Specifications

---

A CPS HR Consultant met with the FRCD/EGWD's Human Resources Administrator to discuss the parameters of the Program Manager position. At this meeting, the major job responsibilities of the proposed Program Manager classification were discussed. FRCD/EGWD shared background materials with CPS HR during this meeting, including the FRCD/EGWD Management Analyst classification specifications, FRCD/EGWD's classification specifications format, and classification specifications from other agencies with positions similar to the proposed Program Manager position. Based on the information received during the initial meeting, CPS HR proceeded to identify agencies with comparable Program Manager classifications. The agencies examined included other water districts and governmental agencies in Northern California. CPS HR developed the draft classification specifications for the Program Manager position based on information from the similar positions from comparable agencies. CPS HR then met with the FRCD/EGWD's Human Resources Administrator and the General Manager to review and edit the draft Program Manager classification specifications. The general job definition for the FRCD/EGWD Program Manager classification is as follows:

Under supervision of the General Manager, this exempt position: provides project and program management for finance, operations, and administration; conducts administrative research; completes grant applications and manages grants; conducts legislative tracking; and coordinates and implements other District programs. This position will also oversee the conservation efforts of the FRCD and EGWD and be responsible for planning, coordinating, implementing, and enforcing the District's accident prevention and safety program in compliance with all Federal and State industrial safety codes, regulations, and standards. This position may also serve as

the organization’s Public Information Officer and be responsible for planning, developing, and conducting external and internal information and education programs.

The finalized Program Manager classification specifications are included in Appendix A.

### III. Identification of Comparable Classifications

When identifying comparable classifications, the intent is to provide general market trends by comparing the span of control; duties and responsibilities; and knowledge, skill, and ability (KSA) requirements to determine whether these are comparable enough to utilize as a match. With a balanced labor market and the use of whole job analysis, it is reasonable to assume that while some matches will have slightly higher responsibilities and some matches will have slightly lower responsibilities, the overall scope of duties and responsibilities of the combined matches will be balanced.

Upon development of the new Program Manager classification specification, CPS HR proceeded to survey other agencies to identify comparable classifications. CPS HR proceeded to survey water agencies, cities, and counties in Northern California. Table 1 lists the agencies in which the job classifications were surveyed and the comparable classifications that were identified. Note: agencies in which job descriptions were unobtainable for review are not included in the list of agencies surveyed in Table 1.

**Table 1**  
**Agencies Surveyed for Comparable Classifications**

Agency	Classification Title
Sacramento County	Environmental Program Manager I
City of Stockton	Program Manager III
City of Sacramento	Program Specialist
City of Fairfield	Program Manager
San Joaquin County	Program Manager
Merced Irrigation District	No Matches Found

Agency	Classification Title
Santa Clara Valley Water District	No Matches Found
East Bay Municipal Utilities District	No Matches Found
Alameda County Water District	No Matches Found
Fresno Irrigation District	No Matches Found
San Benito County Water District	No Matches Found
Yuba County Water Agency	No Matches Found
Nevada Irrigation District	No Matches Found
El Dorado Irrigation District	No Matches Found
Sacramento Suburban Water District	No Matches Found
Placer County	No Matches Found
City of Tracy	No Matches Found
City of Vacaville	No Matches Found

The five matching classifications identified in Table 1 were considered comparable to the FRCD/EGWD Program Manager classification upon review of their associated job duties, KSA requirements, and minimum qualifications.

The classification specifications for the five comparable positions are included in Appendix B.

## IV. Base Salary Study

---

The final step in the FRCD/EGWD Program Manager classification project was to conduct a base salary survey of comparable classifications. The two most common labor market salary indicators are:

- The labor market median represents the “middle” of the market. This is the data point at which half of the complete range of data is higher, and half of the complete range of data is lower. Within small data sets, the median data point is not skewed by high or low paying agencies in the market; thus, eliminating the highest and lowest payers would not impact the median data point.

- The labor market mean is the arithmetic average data point for the complete range of data. High and low paying agencies can impact this data point if their values significantly deviate from the salaries being paid by the other agencies.

The salary information for the five comparable Program Manager classifications identified above are compiled in Table 2.

**Table 2**  
**Base Salary Comparisons**

Agency	Classification Title	Minimum Monthly Salary	Maximum Monthly Salary
Sacramento County	Environmental Program Manager I	\$8,439.00	\$9,303.78
City of Stockton	Program Manager III	\$6,618.74	\$8,498.64
City of Sacramento	Program Specialist	\$6,702.14	\$8,792.77
City of Fairfield	Program Manager	\$7,725.64	\$9,390.51
San Joaquin County	Program Manager	\$6,527.73	\$7,936.93
	<b>Median</b>		<b>\$8,792.77</b>
	<b>Mean</b>		<b>\$8,784.53</b>

Only the mean and median maximum salary are calculated in Table 2, as each agency generally has their own procedures for calculating the minimum salary level based on the number of steps there are in each grade for the classification. For the five comparable classifications, the mean and median maximum salaries are almost identical. The maximum median monthly salary level of \$8,792.77 of the comparable classifications is equivalent to a yearly income of \$105,513. The FRCD/EGWD salary schedule that best fits the median salary level of the comparable classes is Grade 69. Table 3 outlines the current FRCD/EGWD salary schedule for Grade 69.

**Table 3**  
**EGWD Salary Schedule for Grade 69**

Pay Period	Step I	Step II	Step III	Step IV	Step V
Yearly	\$87,152.00	\$91,499.20	\$96,075.20	\$100,880.00	\$105,934.40
Bi-Weekly	\$3,352.00	\$3,519.20	\$3,695.20	\$3,880.00	\$4,074.40
Hourly	\$41.90	\$43.99	\$46.19	\$48.50	\$50.93



## **V. Base Salary Recommendation**

---

CPS HR Consulting recommends that the Program Manager salary level be equivalent to the FRCD/EGWD Salary Grade 69. Given the responsibilities and position requirements outlined in the proposed Program Manager classification specifications, the proposed salary level for the Program Manager classification appears to be consistent with the responsibilities and duties of the classifications in adjacent pay grade levels.

# Appendix A

## FRCD/EGWD Program Manager Classification Specifications

## ELK GROVE WATER DISTRICT JOB DESCRIPTION

*Elk Grove Water District is an equal opportunity employer.  
Employment is at-will.*

POSITION:	<b>Program Manager</b>
DEPARTMENT:	Management
DIRECTLY REPORTS TO:	General Manager
FLSA:	Exempt
JOB DESCRIPTION DATE:	May 9, 2016

### **Job Definition**

Under supervision of the General Manager, this exempt position: provides project and program management for finance, operations, and administration; conducts administrative research; completes grant applications and manages grants; conducts legislative tracking; and coordinates and implements other District programs. This position will also oversee the conservation efforts of the FRCD and EGWD and be responsible for planning, coordinating, implementing, and enforcing the District's accident prevention and safety program in compliance with all Federal and State industrial safety codes, regulations, and standards. This position may also serve as the organization's Public Information Officer and be responsible for planning, developing, and conducting external and internal information and education programs.

### **Examples of Duties:**

*The statements contained herein reflect general details as necessary to describe the principle functions of this job, the level of knowledge, the skills typically required, and the scope of responsibility. These are not to be construed as exclusive or all-inclusive. Other duties may be required as assigned.*

#### **General Administration**

- Review and administer policies, procedures, and operations.
- Develop and direct the implementation of goals, objectives, priorities, and work standards.
- May supervise staff, including planning, assigning, reviewing, and evaluating work.
- Participate in collaborative efforts to improve work processes and objectives throughout the District.
- Recommend and implement policy and procedural improvements.

**Public Information and Outreach**

- Provide liaison and public information assistance to the General Manager.
- Serve as a contact for specific programs and projects.
- Facilitate internal and external customer relations.
- Represent the District and/or the General Manager in meetings, hearings, workshops and regulatory proceedings with representatives of governmental agencies, professional organizations, businesses, community organizations, and the public.
- Compose formal and informal written correspondence.
- Coordinate and prepare pamphlets, brochures, booklets, newsletters, bill inserts, reports, and other in-house and external publications.
- Communicate with the press and prepare press releases.
- Establish and maintain contacts with representatives of the news media.
- Respond to inquiries from the public, news media, local, state and federal government leaders, elected representatives, and other water agencies and associations.

**Program/Project Management**

- Plan, organize, direct, and control programs and projects with District-wide implications and ensure that internal and externally imposed program requirements are met.
- Conduct and prepare comprehensive reports.
- Prepare a variety of periodic progress and special reports related to programs and activities.
- Organize systems and procedures.
- Establish goals and objectives for the District for assigned programs and projects.
- Develop and maintain informational and statistical reports regarding assigned program performance, goal attainment, and service levels.

**Fiscal Responsibilities**

- Manage budgets for assigned programs.
- Prepare recommendations for annual grant and program budgets.
- Assist in budget preparation for programs and projects.
- Work with vendors and suppliers to obtain needed goods and services.

**Grants/Contracts**

- Prepare and/or assist in the preparation of grant applications.
- Write RFP/RFQs and contracts for goods and services.
- Assist in negotiating terms, conditions, and performance standards of contracts.
- Provide contract management.
- Assist in lobbying efforts to acquire grant funding.

**Legislative Analysis**

- Monitor new/revised/proposed legislation and developments related to the District.
- Perform legislative advocacy and support.

- Evaluate and interpret local, state, and federal regulations and their impact on District operations and programs.
- Devise strategies and procedures to ensure compliance with local, state, and federal regulations.
- Prepare periodic legislation status reports for the General Manager and the Board.

#### **Conservation Activities**

- Develop, implement, and manage water and other conservation programs.
- Analyze internal and external issues regarding local, regional, and statewide regional water policy.
- Provide periodic conservation reports to the General Manager and to the Board.
- Provide conservation education to schools and other forums.

#### **Safety**

- Plan, organize, implement, and evaluate the District's safety programs.
- Plan, introduce, and effectively carry out campaigns for prevention and reduction of accidents and injuries.
- Investigate occupational injuries or illnesses.
- Chair the District's Safety Committee.
- Analyze accident/injury reports.
- Study reports and data to discern trends and causes and develop recommendations for eliminating or mitigating hazards.
- Plan, develop, and conduct training on specific safety topics to District employees.
- Maintain records of safety training attended by employees.
- Develop and distribute safety-related information and materials.
- Schedule, perform, and document periodic safety inspections of District facilities and equipment.
- Maintain and edit the Employee Safety Manual and Injury & Illness Prevention Plan.
- Specify and requisition safety materials, tools, and equipment.
- Respond to emergency situations at District facilities.

#### **Knowledge of:**

##### **General Administration**

- Public administration principles, practices, and methods of administrative and organizational analysis.
- Business computer user applications, particularly as related to word processing and spreadsheets.
- Methods and practices of modern office management.
- Database formats and operation.

**Public Information and Outreach**

- District rules and practices for the public release of information.
- Functions and missions of publicly appointed Boards or Commissions.

**Program/Project Management**

- Policies, principles, and resources related to the program(s) to which assigned.
- Program monitoring and evaluation techniques.
- Advanced principles and practices of project/program development, management and administration.
- Advanced principles and practices of research, analysis, and report writing.
- Knowledge of the principles and techniques of analytical and statistical analysis.
- Water industry and conservation terminology, equipment, and procedures.
- Resource planning and forecasting principles, methods, practices, and techniques.

**Fiscal Responsibilities**

- Basic accounting/budgetary principles and practices.

**Grants/Contracts**

- Available grants and grant application procedures.
- RFP components and preparation techniques.

**Legislative Analysis**

- Applicable federal, state, and local laws, rules and regulations relating to water districts.

**Conservation Activities**

- Principles and practices of conservation management and planning.
- Principles and practices of environmental impact assessment and related regulatory processes.

**Safety**

- Federal, state, and local laws, rules, and regulations regarding occupational health and safety.
- Water utility safety practices (including Title 8 and the California Code of Regulations).

**Ability to:**

**General Administration**

- Establish, prioritize, and implement goals, objectives, policies, and work standards.
- Evaluate alternatives, apply logic, and reach sound conclusions when analyzing problems.
- Plan, assign, review, and direct the work of assigned staff.
- Prepare clear and concise management-level reports and correspondence.
- Use computers, computer applications, and software.
- Establish and maintain effective working relationships with people of diverse backgrounds.

- Communicate clearly and concisely, both orally and in writing.

#### **Public Information and Outreach**

- Develop and disseminate informational materials.
- Make clear and concise presentations to staff, the Board, and to the public.

#### **Program/Project Management**

- Analyze administrative, operational, or organizational problems and issues related to the program(s) to which assigned.
- Manage multiple programs, projects, priorities, and deadlines.
- Collecting and analyzing large volumes of data and reaching a conclusion supported by the research.
- Effectively plan, develop, and implement a program or project with a broad scope and high degree of complexity.
- Make program or project changes based on analysis of results, new legislation, or departmental changes.

#### **Fiscal Responsibilities**

- Prepare, administer, and monitor program/project budgets.

#### **Grants/Contracts**

- Prepare grant applications.
- Administer and monitor grants.
- Identify potential grant and funding sources.

#### **Legislative Analysis**

- Interpret complex rules, regulations, policies, laws, and ordinances.
- Research, interpret, and apply technical information, e.g. laws, standards, regulations, and policies.

#### **Conservation Activities**

- Analyze water policy issues.
- Make educational presentations to schools and other forums.

#### **Safety**

- Plan, organize, and evaluate the District's safety programs.
- Ability to investigate on-the-job accidents and work-related incidents.
- Ability to identify and correct unsafe working conditions and practices through on-site inspections.

**Physical Requirements:**

- Use fine gross motor coordination in performing data entries into the computer while sitting for prolonged periods of time.
- Hear normal conversation in person and on the telephone.
- Vision must be sufficient to accomplish the duties of the position, which may include operating a company vehicle.
- Sit for prolonged periods of time.
- Push and pull 25 pounds.
- Lift and carry 25 pounds.
- Travel infrequently by vehicle for District related duties and activities.
- Intermittently twist and reach office equipment.
- Coordinate eyes, hands, and fingers to perform semi-skilled tasks including typing and calculating

**Desirable Education and Experience:**

- Graduation of an accredited four-year college or university with a degree business or public administration or related field.
- Five plus (5+) years of general local government experience.
- Experience in budget preparation preferably in a management role for a minimum of two years.

**License Required:**

Possession of a valid Class C California Driver's License.



## **Appendix B**

### **Comparable Classification Specifications from other Agencies**

**City of Sacramento**

**Class Title:** Program Specialist

**Bargaining Unit:** Sacramento City Exempt Employees Association (SCXEA)

**Class Code:** 001799

**Salary:** \$38.67 - \$50.73 Hourly  
 \$3,093.30 - \$4,058.20 Biweekly  
 \$6,702.14 - \$8,792.77 Monthly  
 \$80,425.70 - \$105,513.20 Annually

**DEFINITION**

**Benefits**

Under general direction the Program Specialist plans, directs, and supervises all of the activities of a major department or Citywide program or project with moderate visibility and impact; conducts studies and makes recommendations; monitors program compliance; represents the department in contacts with media, internal and external agencies, and organizations.

**DISTINGUISHING CHARACTERISTICS**

This advanced journey level class in the professional series is populated with multiple incumbents. The Program Specialist is distinguished from the next lower class of Program Analyst in that the Program Specialist manages multiple programs or moderately visible programs with greater department or Citywide impact. This class is distinguished from the next higher classification of Program Manager in that the Manager is responsible for administration and management of programs and projects with high visibility and substantial Citywide impact.

This class is distinguished from the class of Administrative Officer in that the latter is responsible for all internal administrative functions for a department.

**SUPERVISION RECEIVED AND EXERCISED**

General direction is provided by a department or division head. Some assignments require responsibility for direct or indirect supervision of lower level professional, technical, and clerical personnel. Some positions function as internal consultants and require coordination among multiple divisions in a department.

**ESSENTIAL DUTIES AND RESPONSIBILITIES:**

- Plans, coordinates, and administers, a project or program with department or Citywide impact; supervises, trains and evaluates the work of professional, technical and clerical staff.
- Confers with department heads, division managers, members of professional staff, and other officials concerning the administrative needs and requirements related to the program or project; represents the program in contacts with news media,

business and civic organizations, other City departments, and various outside public and private agencies.

- Interprets new policies, procedures, and regulations, and develops new or amended programs or projects as need dictates, monitors program objectives to assure compliance with State and administrative regulations and program guidelines.
- Conducts studies and surveys, performs research and analysis and prepares recommendations for department management; monitors and evaluates program effectiveness and outcomes; creates and implements program policies and procedures; develops guidelines, forms and related documents.
- Reviews grant opportunities; compiles and analyzes information for preparation of grants, contracts and agreements; negotiates terms; implements, monitors and prepares reports on conduct and performance of grants.
- Identifies program, project or system enhancements; selects and coordinates installation of new and revised programs and systems.
- Provides exceptional customer service to those contacted in the course of work.
- Other related duties may also be performed; not all duties listed are necessarily performed by each individual holding this classification.

**QUALIFICATIONS:**

**Knowledge of:**

- Principles and practices of public administration and governmental finance, budgeting, and accounting.
- Procurement methods.
- Research techniques, methods and procedures.
- Methods and practices of modern office management.
- Principles and practices of program management and administration.
- Technical report writing.
- Methods of analysis.
- Principles and practices of supervision.

**Skill in:**

- Managing multiple tasks and deadlines.
- Customer service, including dealing with people under stress, and problem solving.
- Use of computers, computer applications, and software.

**Ability to:**

- Effectively plan, develop, and implement a comprehensive program with a broad scope and high degree of complexity.
- Supervise and direct professional, technical, and clerical staff.
- Analyze fiscal problems and make sound policy and procedural recommendations.
- Make effective presentations to public officials, committees, and outside agencies.
- Establish and maintain effective working relationships with employees and the general public.
- Prepare technical and analytic reports.
- Communicate effectively, orally and in writing.
- Make program or project changes based on analysis of results, new legislation, or departmental changes.
- Meet multiple deadlines.

**EXPERIENCE AND EDUCATION**

**Experience:**

Four years of progressively responsible professional-level administrative experience.

**-AND-**

**Education:**

A Bachelor's Degree from an accredited four-year college or university with major coursework in business or public administration or a closely related field.

*Note: It is highly desirable the required years of professional-level experience be attained in a governmental jurisdiction.*

**Substitution:**

Additional qualifying experience may substitute for the required education on a year for year basis.

**SPECIAL QUALIFICATIONS**

**Driver License:**

Possession of a valid California Class C Driver License at the time of appointment. Individuals who do not meet this requirement due to physical disability will be reviewed on a case-by-case basis.

**CLASS HISTORY:**

Adopted: 4/20/02  
Revised: June 30, 2015  
Abolished:  
Title Change:  
Maintenance Update: 12/2/05; Class Code: 01799

**City of Fairfield**

**Class Title:** Program Manager  
**Bargaining Unit:** Fairfield General Management Association  
**Class Code:** 2193  
**Salary:** \$44.57 - \$54.18 Hourly  
 \$3,565.68 - \$4,334.08 Biweekly  
 \$7,725.64 - \$9,390.51 Monthly  
 \$92,707.68 - \$112,686.08 Annually

--	--

<b>Description</b>	<b>Benefits</b>
--------------------	-----------------

<p><b>DEFINITION</b></p> <p>Under general direction, organizes and manages major programs or projects with a high degree of visibility and substantial citywide impact; may supervise professional, technical, and clerical staff; coordinates administrative functions; and develops procedures, programs and methodologies.</p> <p><b>WORKING CONDITIONS</b></p> <p>Work is performed in an office setting with frequent interruptions, deadlines, complaints, and peak workload periods. Work may also include going out into the field for meetings and site evaluations. Position sometimes requires working nights and weekends.</p> <p><b>PHYSICAL DEMANDS</b></p> <p>Work may include prolonged sitting and standing, light to moderate lifting, reaching, stooping, pulling, and manual dexterity. Clear, understandable speech, visual and hearing acuity are also necessary.</p> <p><b>DISTINGUISHING CHARACTERISTICS</b></p> <p>Incumbents in this classification exercise a broad range of authority over complex programs critical to a department's mission. Responsibilities require work beyond typical program or project management work. Incumbents must exercise substantial innovation and leadership in developing and managing programs or projects. The Program Manager is responsible for administration and management of major complex programs and projects with high visibility and substantial citywide impact.</p> <p><b>SUPERVISION RECEIVED AND EXERCISED</b></p>
---

Receives general direction from the Assistant City Manager May exercise direct supervision over professional, technical, and administrative support personnel as assigned.

**Minimum Qualifications:**

**EDUCATION AND EXPERIENCE**

Any combination equivalent to experience and education that would likely provide the require knowledge and abilities would be qualifying. A typical way to obtain the knowledge and abilities would be:

**Education:**

A Bachelor's degree from an accredited college or university with major course work in public administration, business administration or a closely related field is required.

**Experience:**

A minimum of five (5) years of professional governmental administrative and analytical experience.

**LICENSE AND/OR CERTIFICATE**

Possession of a valid California Class C driver's license is required.

**Examples of Duties:**

**EXAMPLES OF DUTIES** The duties of this position may include, but are not limited to the following:

Organizes, coordinates, and manages one or more major programs or projects with high visibility and citywide impact; coordinates administrative functions including budget preparation, financial management and contract administration for the program. Develops procedures and methodologies within compliance requirements; interprets and applies existing policies to actual situations; coordinates development of work plans, selects and supervises staff; meets with staff to identify and resolve problems, assigns work activities, and evaluates work products.

Serves as principal contact for the program/project; confers with department heads, members of professional staff, and other officials concerning programs, regulations, procedures and policies; represents the City in a variety of meetings involving program coordination or regulatory requirements; may serve on commissions or non-profit boards as part of program service delivery.

Develops and maintains informational and statistical reports regarding program performance, goal attainment, and service levels; conducts customer service audits and delivers customer service training.

Works with vendors and suppliers; writes RFP/RFQs, contracts, and grant applications; negotiates terms, conditions and performance standards.

**Knowledge & Abilities:**

DESIRABLE QUALIFICATIONS

Knowledge of:

Principles and practices of public administration, including governmental finance, budgeting, personnel administration, procurement methods.

Methods and practices of modern office management.

Advanced principles and practices of research, analysis, and technical report writing.

Functions and missions of publicly appointed Boards or Commissions.

Principles and practices of supervision.

Advanced principles and practices of project/program development, management and administration

Principles and practices of supervision and training.

Ability to:

Collect and analyze large volumes of data and reach a conclusion supported by the research.

Build consensus among parties with competing or conflicting interests.

Supervise and motivate employees and generate department-wide cooperation in support of strategic goals and plans.

Effectively plan, develop, and implement a comprehensive program with a broad scope and high degree of complexity.

Manage highly complex subject matter.

Make program or project changes based on analysis of results, new legislation, or departmental changes.

Use of computers, computer applications, and software.

Prepare technical or analytical reports.

Interpret and apply regulatory practices, rules, and policies to actual situations.

Present ideas effectively, orally and in writing.

Establish and maintain effective working relationships with people of diverse backgrounds.

Meet deadlines in a highly political environment.

Exercise administrative supervision and direction over professional, technical, and clerical staff.



## City of Stockton

**Class Title:** Program Manager III

**Bargaining Unit:** Unrep - Middle Management

**Class Code:** 02160

**FLSA:** Exempt

**Salary:** \$6,618.78 - \$8,498.64 Monthly  
\$79,425.36 - \$101,983.68 Annually

<b>DEFINITION</b>	<b>Benefits</b>
<p>Under administrative direction, performs a variety of professional level duties and responsibilities for implementation of Citywide strategic programs, including operational and/or other complex analyses; performs related duties as assigned.</p>	
<b>CLASS CHARACTERISTICS:</b>	
<p>Incumbents in this management level classification are responsible, in addition to the above, for directing and managing compliance by departments with the policies and procedures of the program(s) under the supervision of this class. Work is done under the direct authority of the City Manager or departmental senior management due to the critical nature of the policies and programs. Assignments allow for a high degree of autonomy and administrative decision making in their execution. This class is distinguished from the general administrative support classes in that the duties relate specifically to administration of specialized programs.</p>	
<b>PRINCIPAL DUTIES (Illustrative Only):</b>	
<ol style="list-style-type: none"> <li>1. Plans, organizes, directs, and controls programs and projects with Citywide implications; provides expert professional assistance to City management staff.</li> <li>2. Reviews and enforces administrative policies, procedures, and operations; ensures that internal and externally imposed program requirements are met.</li> <li>3. Develops and directs the implementation of goals, objectives, and work standards.</li> <li>4. Supervises staff, planning, assigning, reviewing, and evaluating work; participates in the selection of staff and provides for their training and professional development.</li> <li>5. Provides staff leadership and technical assistance to task forces, citizen advisory committees, commissions, or boards; confers with and provides technical assistance to City departments in areas of responsibility.</li> </ol>	

6. Prepares a variety of periodic progress and special reports related to programs and activities.
7. Represents the City in meetings with representatives of governmental agencies, professional, business and community organizations and the public.
8. Prepares recommendations for annual grant and program budgets; and/or provides input for and prepares various grant applications or annual performance report of activities.
9. May confer and negotiate with developers and property owners relative to the acquisition and disposition of property and improvements; may draft project contract language and performance specifications.
10. Monitors legislation and developments related to areas of responsibility; evaluates their impact on City operations and programs; recommends and implements policy and procedural improvements.
11. Performs related duties as assigned.

**MINIMUM QUALIFICATIONS:**

**Education/Experience:**

Possession of a Bachelor's degree from an accredited four-year college or university with major course work in business or public administration or a closely related field, or the field of the program to which assigned, and four (4) years of experience managing or supervising highly visible programs or projects with major departmental or citywide impact.

**Other Requirements:**

Specified positions may require possession of a valid California Class C driver's license.

**Knowledge of:**

- Policies, principles, and resources related to the program(s) to which assigned; program monitoring and evaluation techniques;
- Public administration principles, practices, and methods of administrative and organizational analysis;
- Applicable federal, state, and local laws, rules and regulations;
- Business computer user applications, particularly as related to data analysis and management;

- Principles and practices of employee selection, supervision, training, and professional development;
- Principles of grant application, proposal preparation, and monitoring and reporting techniques;
- Basic budgetary principles and practices.

**Skill in:**

- Analyzing administrative, operational, or organizational problems and issues related to the program(s) to which assigned; evaluating alternatives and reaching sound conclusions;
- Establishing, prioritizing, and implementing goals, objectives, policies, and work standards;
- Planning, assigning, reviewing, evaluating, and directing the work of assigned staff;
- Interpreting, explaining, and applying complex rules, regulations, policies, laws, and ordinances;
- Providing technical assistance and staff leadership to City departments, boards, and commissions;
- Preparing clear and concise management-level reports and correspondence;
- Making persuasive oral presentations of ideas and recommendations;
- Negotiating favorable contract terms for the City in assigned areas of responsibility;
- Effectively representing the interests of the City in meetings with public agencies, the business community, or others outside the City;
- Preparing, administering, and monitoring grant or program budgets;
- Exercising sound, independent judgment within established guidelines;
- Establishing and maintaining effective relationships with those contacted in the course of the work.

**HISTORICAL NOTE:**

Established/Excluded: 6/30/98

Resolution: CC98-0268  
Spec Adopted: 8/27/03  
Resolution: CC03-0513  
CS Status: Unclassified  
Unit: Unrepresented-MV

## Sacramento County

---

**Class Title:** Environmental Program Manager I

**Class Code:** 28953

**Salary:** \$48.50 - \$53.47 Hourly  
 \$8,439.00 - \$9,303.78 Monthly  
 \$101,268.00 - \$111,645.36 Annually

---

**Definition** **Benefits**

Positions in the Environmental Program Manager series perform the full scope of management work over programs concerned with present and future environmental issues related to safeguarding the public interest and ensuring the high quality standards necessary to protect both public health and the environment.

**Distinguishing Characteristics:**

Environmental Program Manager II is the second-line management level in the series. Under administrative direction, incumbents primarily function as division chiefs for a major division with the department. Incumbents develop and administer a division's budget, goals and objectives, and policies and procedures with greater emphasis on long-range planning and projecting and negotiating resource requirements. Incumbents typically lead and guide through subordinate managers and senior professionals.

Environmental Program Manager I is the first-line management level in the series. Under general direction, incumbents are responsible for the day-to-day management of the people and budget and the operational integration and coordination of environmental programs, components, and/or service areas that are highly sensitive and complex in nature. Staff oversight is usually delegated through supervisors and/or advanced practitioners and typically involves planning, organizing, executing, controlling and evaluating the final products and services. Incumbents function in a liaison capacity and coordinate program activities, products and services with other governmental agencies, county departments, and the private sector.

**Examples of Duties, Knowledge, and Abilities:**

Note: The following duties are typical of those performed by positions in this class series. Every incumbent may not necessarily perform all of the duties listed. Other related duties may also be performed.

Duties

Environmental Program Manager I and above:

1. Works closely with management staff and director to develop programs and services and formulate goals, objectives, policies, procedures, public relations and operating strategies for an assigned program or operational area.
2. Develops and administers a program budget and works with a division chief and/or director to coordinate the budget with division- and department-wide fiscal administration.
3. Plans, organizes, directs, and coordinates program's services to maximize accomplishment of goals and objectives and improve operational efficiency.

4. Plans and assigns projects, budgets staff time and funds; monitors processes and timelines; ensures completion of program and administrative objectives and submission of satisfactory products to division chiefs and director, other agencies, and the public.
5. Coordinates division and/or program activities and special projects with other government agencies concerned with environmental regulation and compliance.
6. Plans, organizes, and reviews work of scientific, professional and technical staff; supervises senior professional staff and other scientific or technical experts working on special projects.
7. Reviews and evaluates staff products and achievements; advises staff on complex environmental issues and regulatory and compliance problems.
8. Participates in and provides direction for selecting, developing, promoting, and evaluating subordinate staff; works with department personnel/human resources staff to investigate and resolve personnel matters; adjusts grievances and/or recommends appropriate actions to be taken.
9. Reviews legislation and prepares written analyses and recommendations; works with a division chief and/or director to develop new ordinances and regulations.
10. Works with management staff and director to develop and implement new policies, procedures, programs, trends, regulations, and guidelines related to environmental and public inspections, enforcement, compliance, and scientific studies.
11. Attends Board and Commission meetings to address program and environmental issues; testifies in court and before administrative bodies.
12. Meets with industry representatives to discuss problems and develop solutions to issues of mutual concern.
13. Ensures proper implementation of public information and education programs; responds to media inquiries and the most sensitive public complaints and inquiries.
14. Prepares administrative reports and ensures proper maintenance of program records, data, and reports.
15. May act for a division chief in his/her absence.

#### Environmental Program Manager II

1. Administers a variety of scientific and environmental compliance programs and services within a division.
2. Supervises division's operations through subordinate managers and senior professional staff.
3. Plans, organizes, directs, and coordinates division's operations, programs, and services to maximize accomplishment of goals and objectives
4. Develops and administers a division budget and works with director and other management staff to coordinate the budget with department-wide fiscal administration.
5. Oversees the development and control of program budgets by subordinate managers and supervisors.
6. May act for the director in his/her absence.

#### KNOWLEDGE OF:

- Laws, codes, regulations, and policies affecting the programs, services, and operations of the department
- Principles of environmental ecology
- Principles of environmental compliance assurance
- Effects of waste material on water quality and land quality and the interactions of waste with the environment
- Environmental practices with special reference to their general effect on human health and the quality of the environment
- Principles of chemistry and chemical reactions
- Statistical methods and analysis
- Principles and practices of scientific and technical problem solving
- Principles and methods of program development, project management, and program/project analysis and

evaluation

- Principles of public administration and public sector budget development and administration
- Principles, practices and techniques of staff management, supervision, mentoring, training, performance evaluations, discipline, employer-employee relations and conflict resolution
- Sacramento County Personnel Policies and Procedures
- Team dynamics and team building

ABILITY TO:

- Plan, organize, administer, and evaluate the operations and services of a division, program, or unit within the department
- Develop and administer a division or program budget; work with subordinate managers or supervisors in program budget development and administration
- Establish, monitor and control projects and schedules to meet goals and objectives
- Manage, supervise, train, and coach managers and senior level scientific and professional staff
- Maintain responsibility for staff evaluations; oversee and direct staff development and employee training; and respond to and adjust grievances
- Manage, direct, and organize the collection of environmental data and information
- Recognize problems, analyze and evaluate complex environmental data; develop recommendations or solutions and take appropriate actions
- Review and interpret impact of legislative changes
- Manage the development and presentation of scientific studies and reports
- Develop innovative solutions for difficult and complex environmental management problems
- Establish and maintain cooperative working relationships
- Effectively represent the department in contacts and relationships with the public, local business community and other government agencies and media

**Minimum Qualifications:**

Environmental Program Manager I

Either: Graduation from an accredited college or university with major in health science, public health, natural science, physical science, environmental science, or a related field.

-and-

Two years of supervisory experience at a level equivalent to the Environmental Specialist IV class within Sacramento County service.

Or: Possession of split off rights as granted by the Civil Service Commission and Board of Supervisors via SRA #90-85.

Note: Possession of a Master's Degree from an accredited college or university in health science, public health, natural science, business or public administration, physical science, environmental science, or a related field may substitute for one year of the required experience.

Environmental Program Manager II

Graduation from an accredited college or university with major work in health science, public health, natural science, physical science, environmental science, or a related field.

-and-

And: 1. Three years of supervisory experience at a level equivalent to the Environmental Specialist IV class within Sacramento County service.

Or: 2. One year of first-line management experience in the class of Environmental Program Manager I within Sacramento County service.

Note: Possession of a Master's Degree from an accredited college or university in health science, public health, natural science, business or public administration, physical science, environmental science, or a related field may substitute for one year of the required supervisory experience.

**SPECIAL REQUIREMENTS**

Applies to all classes

**Physical Requirements:**

Sit for extended periods; frequently stand and walk; normal manual dexterity and eye-hand coordination; corrected hearing and vision to normal range; verbal communication; use of office equipment including computers, keyboards, telephones, calculators, and copiers.

**Work Schedule and Conditions:**

Incumbents are subject to work in adverse weather conditions, emergency situations, and perform duties during other than normal working hours, as necessary.

**General License Requirements:**

All classes in this series require possession of, or ability to obtain a valid California Driver's License, Class C or higher, before the date of appointment. Failure to obtain and maintain this license constitutes cause for suspension or termination from the class in accordance with Civil Service Rules.

**Professional Certification/ Registration Requirements:**

Failure to obtain and maintain required certification/registration constitutes cause for suspension or termination from the class in accordance with Civil Service Rules.

Some positions may require possession of valid certification as a Registered Environmental Health Specialist, issued by the State of California.

Some positions may require possession of valid certifications, as deemed necessary by legislative mandate or appropriate regulatory authority in the State of California.

**Probationary Period and Class History Information:**

Environmental Program Manager I Six (6) Months  
 Environmental Program Manager II Six (6) Months

Adopted: 6/19/01  
 Revised: 8/27/13\*  
 Retitled:  
 Class Code: 28953  
 Schematic Code: 13131C  
 EEO Code: 41  
 Rep Unit: 032



## San Joaquin County Human Resources Division

### Program Manager (#RM1153)

**\$37.66-\$45.79 Hourly / \$6,527.73-\$7,936.93 Monthly / \$78,332.80-\$95,243.20 Yearly**

Under general direction, performs complex administrative work in the management of a public assistance division; and does related or other work as required in accordance with Rule 3, Section 3 of the Civil Service Rules.

An employee in this class plans and directs a major division in income maintenance, staff services or social services, and supervises the work of administrative and technical staff who carry out program activities. An incumbent has responsibilities encompassing multiple programs and policy and decision-making authority with agency-wide impact. This class differs from Program Assistant II in that incumbents of the latter class perform technical or administrative supervisory work under direction and do not have overall responsibility for division management.

**TYPICAL DUTIES** Plans, organizes and directs the work of division staff; prioritizes and assigns work; analyzes staffing, work flow and procedures and adjusts as needed to maximize resource utilization. Conducts staff meetings; coordinates suggestions made by staff for revision or development of program activities; analyzes and interprets new policies and procedures to staff. Directs program appraisal activities to identify need for revision or development of program elements; analyzes program; develops procedures to increase program effectiveness. Meets with department director and deputy directors regarding program policies; participates in departmental committees to determine agency needs and develop policies and procedures, forms and training to meet needs. Maintains liaison with local and state agencies; may address public and private groups relative to public assistance programs; may participate in conferences or seminars. Reviews correspondence, reports and other material; prepares reports and correspondence; prepares budget and staffing.

**Education:** Graduation from a four-year college with major coursework in public or business administration, social sciences or related fields.

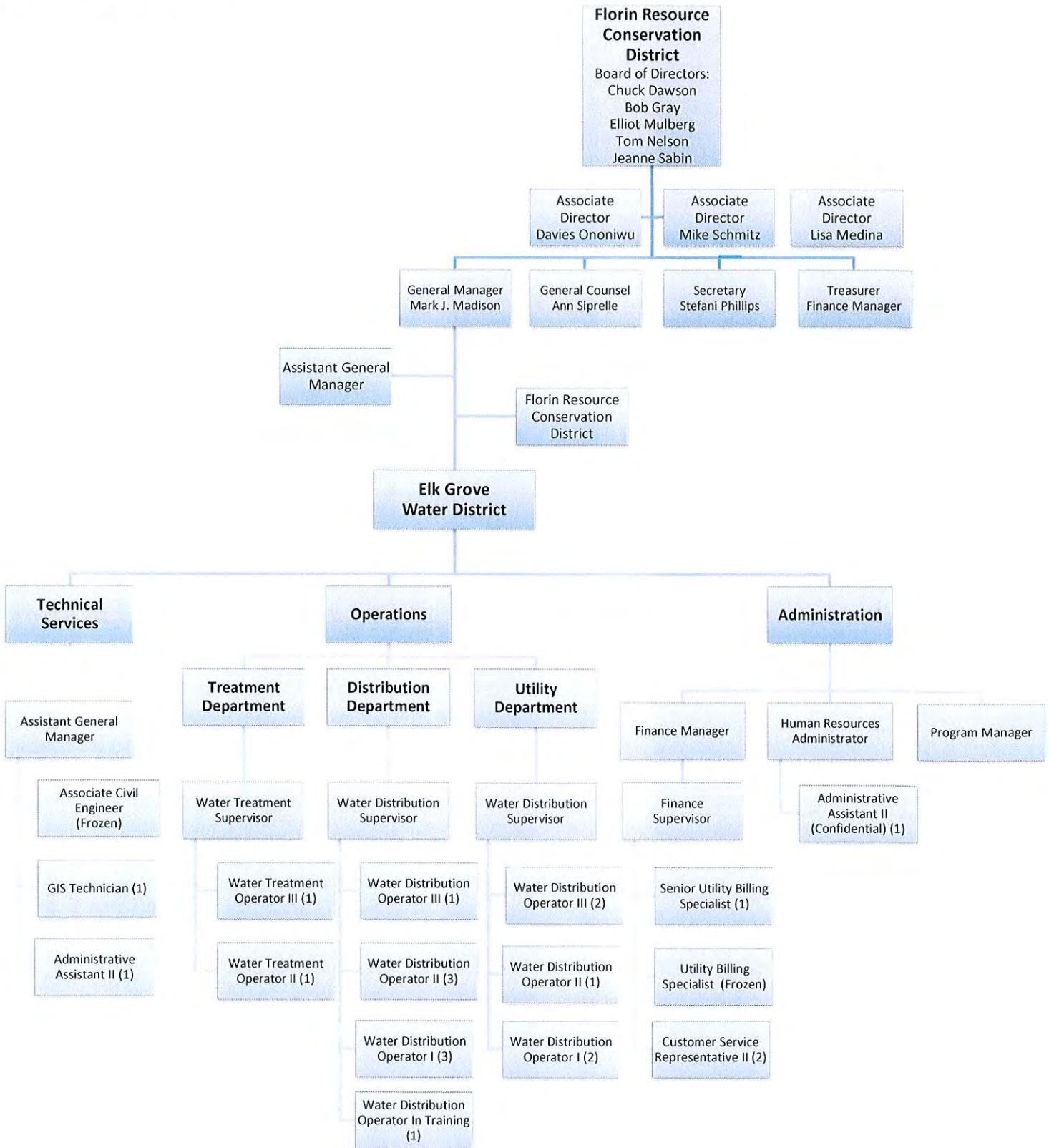
**Experience:** Three years either supervising a unit of staff engaged in determining eligibility or providing services in a public assistance department; or performing administrative duties equivalent to or higher than those performed at the level of Program Assistant I.

**Substitution:** Responsible experience performing duties which required considerable independence in compiling, organizing and evaluating reports may be substituted for education on a year-to-year basis.

**ABILITY**

Plan, direct and coordinate the activities of a division; perform complex, managerial duties; interpret and apply public assistance regulations; communicate effectively; establish and maintain effective working relationships with administrators and other employees; write clear, concise reports; analyze data and base recommendations on the analysis.

# Florin Resource Conservation District Organization Chart



**ELK GROVE WATER DISTRICT**  
**Non-Exempt Positions**  
**Annual, Bi-Weekly & Hourly Wage**  
**As of May 25, 2016**

Position	Grade	Step I	Step II	Step III	Step IV	Step V
Administrative Assistant I	35	\$ 38,022.40	\$ 39,924.52	\$ 41,920.75	\$ 44,016.78	\$ 46,217.62
		\$ 1,462.40	\$ 1,535.56	\$ 1,612.34	\$ 1,692.95	\$ 1,777.60
		\$ 18.28	\$ 19.19	\$ 20.15	\$ 21.16	\$ 22.22
Administrative Assistant II	41	\$ 44,012.80	\$ 46,217.60	\$ 48,526.40	\$ 50,960.00	\$ 53,497.60
		\$ 1,692.80	\$ 1,777.60	\$ 1,866.40	\$ 1,960.00	\$ 2,057.60
		\$ 21.16	\$ 22.22	\$ 23.33	\$ 24.50	\$ 25.72
CIP Worker (Temporary)	46	\$ 49,732.80	\$ 52,228.80	\$ 54,849.60	\$ 57,574.40	\$ 60,465.60
		\$ 1,913.14	\$ 2,008.80	\$ 2,109.24	\$ 2,214.70	\$ 2,325.44
		\$ 23.91	\$ 25.11	\$ 26.37	\$ 27.68	\$ 29.07
Conservation Coordinator	50	\$ 54,849.60	\$ 57,574.40	\$ 60,465.60	\$ 63,481.60	\$ 66,664.00
		\$ 2,109.24	\$ 2,214.70	\$ 2,325.44	\$ 2,441.71	\$ 2,563.79
		\$ 26.37	\$ 27.68	\$ 29.07	\$ 30.52	\$ 32.05
Customer Service Specialist I	31	\$ 34,486.40	\$ 36,212.80	\$ 38,022.40	\$ 39,915.20	\$ 41,912.00
		\$ 1,326.47	\$ 1,392.80	\$ 1,462.44	\$ 1,535.56	\$ 1,612.34
		\$ 16.58	\$ 17.41	\$ 18.28	\$ 19.19	\$ 20.15
Customer Service Specialist II	37	\$ 39,915.20	\$ 41,912.00	\$ 44,012.80	\$ 46,217.60	\$ 48,526.40
		\$ 1,535.56	\$ 1,612.34	\$ 1,692.95	\$ 1,777.60	\$ 1,866.48
		\$ 19.19	\$ 20.15	\$ 21.16	\$ 22.22	\$ 23.33
Financial Services Specialist I	56	\$ 63,481.60	\$ 66,664.00	\$ 69,992.00	\$ 73,486.40	\$ 77,168.00
		\$ 2,441.71	\$ 2,563.79	\$ 2,691.98	\$ 2,826.58	\$ 2,967.91
		\$ 30.52	\$ 32.05	\$ 33.65	\$ 35.33	\$ 37.10
Financial Services Specialist II	62	\$ 73,486.40	\$ 77,168.00	\$ 81,016.00	\$ 85,072.00	\$ 89,336.00
		\$ 2,826.58	\$ 2,967.91	\$ 3,116.31	\$ 3,272.12	\$ 3,435.73
		\$ 35.33	\$ 37.10	\$ 38.95	\$ 40.90	\$ 42.95
GIS Technician I	51	\$ 56,180.80	\$ 58,988.80	\$ 61,942.40	\$ 65,041.60	\$ 68,286.40
		\$ 2,160.69	\$ 2,268.72	\$ 2,382.16	\$ 2,501.26	\$ 2,626.33
		\$ 27.01	\$ 28.36	\$ 29.78	\$ 31.27	\$ 32.83
Intern I	7	\$ 19,198.40	\$ 20,155.20	\$ 21,174.40	\$ 22,235.20	\$ 23,337.60
		\$ 738.63	\$ 775.56	\$ 814.34	\$ 855.06	\$ 897.81
		\$ 9.23	\$ 9.69	\$ 10.18	\$ 10.69	\$ 11.22
Intern II	24	\$ 29,078.40	\$ 30,534.40	\$ 32,073.60	\$ 33,675.20	\$ 35,360.00
		\$ 1,118.40	\$ 1,174.40	\$ 1,233.60	\$ 1,295.20	\$ 1,360.00
		\$ 13.98	\$ 14.68	\$ 15.42	\$ 16.19	\$ 17.00
Meter Reader	37	\$ 39,915.20	\$ 41,912.00	\$ 44,012.80	\$ 46,217.60	\$ 48,526.40
		\$ 1,535.56	\$ 1,612.34	\$ 1,692.95	\$ 1,777.60	\$ 1,866.48
		\$ 19.19	\$ 20.15	\$ 21.16	\$ 22.22	\$ 23.33

# ELK GROVE WATER DISTRICT

## Non-Exempt Positions

### Annual, Bi-Weekly & Hourly Wage

As of May 25, 2016

Position	Grade	Step I	Step II	Step III	Step IV	Step V
Operations Foreman	60	\$ 69,992.00	\$ 73,486.40	\$ 77,168.00	\$ 81,016.00	\$ 85,072.00
		\$ 2,691.98	\$ 2,826.58	\$ 2,967.91	\$ 3,116.31	\$ 3,272.12
		\$ 33.65	\$ 35.33	\$ 37.10	\$ 38.95	\$ 40.90
Operator in Training	37	\$ 39,915.20	\$ 41,912.00	\$ 44,012.80	\$ 46,217.60	\$ 48,526.40
		\$ 1,535.56	\$ 1,612.34	\$ 1,692.95	\$ 1,777.60	\$ 1,866.48
		\$ 19.19	\$ 20.15	\$ 21.16	\$ 22.22	\$ 23.33
Senior Utility Billing Specialist	56	\$ 63,481.60	\$ 66,664.00	\$ 69,992.00	\$ 73,486.40	\$ 77,168.00
		\$ 2,441.71	\$ 2,563.79	\$ 2,691.98	\$ 2,826.58	\$ 2,967.91
		\$ 30.52	\$ 32.05	\$ 33.65	\$ 35.33	\$ 37.10
Utility Billing Specialist	46	\$ 49,732.80	\$ 52,228.80	\$ 54,849.60	\$ 57,574.40	\$ 60,465.60
		\$ 1,913.14	\$ 2,008.80	\$ 2,109.24	\$ 2,214.70	\$ 2,325.44
		\$ 23.91	\$ 25.11	\$ 26.37	\$ 27.68	\$ 29.07
Water Distribution Supervisor	60	\$ 69,992.00	\$ 73,486.40	\$ 77,168.00	\$ 81,016.00	\$ 85,072.00
		\$ 2,691.98	\$ 2,826.58	\$ 2,967.91	\$ 3,116.31	\$ 3,272.12
		\$ 33.65	\$ 35.33	\$ 37.10	\$ 38.95	\$ 40.90
Water Distribution Operator I	46	\$ 49,732.80	\$ 52,228.80	\$ 54,849.60	\$ 57,574.40	\$ 60,465.60
		\$ 1,913.14	\$ 2,008.80	\$ 2,109.24	\$ 2,214.70	\$ 2,325.44
		\$ 23.91	\$ 25.11	\$ 26.37	\$ 27.68	\$ 29.07
Water Distribution Operator II	51	\$ 56,180.80	\$ 58,988.80	\$ 61,942.40	\$ 65,041.60	\$ 68,286.40
		\$ 2,160.69	\$ 2,268.72	\$ 2,382.16	\$ 2,501.26	\$ 2,626.33
		\$ 27.01	\$ 28.36	\$ 29.78	\$ 31.27	\$ 32.83
Water Distribution Operator III	56	\$ 63,481.60	\$ 66,664.00	\$ 69,992.00	\$ 73,486.40	\$ 77,168.00
		\$ 2,441.71	\$ 2,563.79	\$ 2,691.98	\$ 2,826.58	\$ 2,967.91
		\$ 30.52	\$ 32.05	\$ 33.65	\$ 35.33	\$ 37.10
Water Treatment Supervisor	60	\$ 69,992.00	\$ 73,486.40	\$ 77,168.00	\$ 81,016.00	\$ 85,072.00
		\$ 2,691.98	\$ 2,826.58	\$ 2,967.91	\$ 3,116.31	\$ 3,272.12
		\$ 33.65	\$ 35.33	\$ 37.10	\$ 38.95	\$ 40.90
Water Treatment Operator I	46	\$ 49,732.80	\$ 52,228.80	\$ 54,849.60	\$ 57,574.40	\$ 60,465.60
		\$ 1,913.14	\$ 2,008.80	\$ 2,109.24	\$ 2,214.70	\$ 2,325.44
		\$ 23.91	\$ 25.11	\$ 26.37	\$ 27.68	\$ 29.07
Water Treatment Operator II	51	\$ 56,180.80	\$ 58,988.80	\$ 61,942.40	\$ 65,041.60	\$ 68,286.40
		\$ 2,160.69	\$ 2,268.72	\$ 2,382.16	\$ 2,501.26	\$ 2,626.33
		\$ 27.01	\$ 28.36	\$ 29.78	\$ 31.27	\$ 32.83
Engineering Technician I	52	\$ 57,574.40	\$ 60,465.60	\$ 63,481.60	\$ 66,664.00	\$ 69,992.00
		\$ 2,214.40	\$ 2,325.60	\$ 2,441.60	\$ 2,564.00	\$ 2,692.00
		\$ 27.68	\$ 29.07	\$ 30.52	\$ 32.05	\$ 33.65

# ELK GROVE WATER DISTRICT

## Non-Exempt Positions

Annual, Bi-Weekly & Hourly Wage

As of May 25, 2016

Position	Grade	Step I	Step II	Step III	Step IV	Step V
Water Treatment Operator III	56	\$63,481.60	\$66,664.00	\$69,992.00	\$73,486.40	\$77,168.00
		\$2,441.71	\$2,563.79	\$2,691.98	\$2,826.58	\$2,967.91
		\$30.52	\$32.05	\$33.65	\$35.33	\$37.10
Water Utility Supervisor	60	\$69,992.00	\$73,486.40	\$77,168.00	\$81,016.00	\$85,072.00
		\$2,691.98	\$2,826.58	\$2,967.91	\$3,116.31	\$3,272.12
		\$33.65	\$35.33	\$37.10	\$38.95	\$40.90
Water Utility Operator I	46	\$49,732.80	\$52,228.80	\$54,849.60	\$57,574.40	\$60,465.60
		\$1,913.14	\$2,008.80	\$2,109.24	\$2,214.70	\$2,325.44
		\$23.91	\$25.11	\$26.37	\$27.68	\$29.07
Water Utility Operator II	51	\$56,180.80	\$58,988.80	\$61,942.40	\$65,041.60	\$68,286.40
		\$2,160.69	\$2,268.72	\$2,382.16	\$2,501.26	\$2,626.33
		\$27.01	\$28.36	\$29.78	\$31.27	\$32.83
Water Utility Operator III	56	\$63,481.60	\$66,664.00	\$69,992.00	\$73,486.40	\$77,168.00
		\$2,441.71	\$2,563.79	\$2,691.98	\$2,826.58	\$2,967.91
		\$30.52	\$32.05	\$33.65	\$35.33	\$37.10

**ELK GROVE WATER DISTRICT**  
**Exempt Positions**  
**Annual Salary**  
**As of May 25, 2016**

Position	Grade	Step I	Step II	Step III	Step IV	Step V
Assistant General Manager	82	\$ 119,704	\$ 125,694	\$ 131,976	\$ 138,570	\$ 145,517
Associate Civil Engineer	69	\$ 87,152	\$ 91,499	\$ 96,075	\$ 100,880	\$ 105,934
Finance Manager	79	\$ 111,238	\$ 116,792	\$ 122,637	\$ 128,752	\$ 135,200
Finance Supervisor	71	\$ 91,499	\$ 96,075	\$ 100,880	\$ 105,934	\$ 111,238
General Manager	---	\$ 185,000				
Human Resources Administrator	70	\$ 89,336	\$ 93,787	\$ 98,488	\$ 103,418	\$ 108,576
Human Resources Specialist	62	\$ 73,486	\$ 77,168	\$ 81,016	\$ 85,072	\$ 89,336
Management Analyst	66	\$ 81,016	\$ 85,072	\$ 89,336	\$ 93,787	\$ 98,488
Operations Manager	75	\$ 100,880	\$ 105,934	\$ 111,238	\$ 116,792	\$ 122,637
Program Manager	69	\$ 87,152	\$ 91,499	\$ 96,075	\$ 100,880	\$ 105,934

May 25, 2016

TO: Chairman and Directors of the Florin Resource Conservation District

FROM: Jim Malberg, Finance Manager/Treasurer  
Stefani Phillips, Board Secretary

SUBJECT: **FLORIN RESOURCE CONSERVATION DISTRICT/ELK GROVE WATER DISTRICT GENERAL LIABILITY, PROPERTY AND WORKERS COMPENSATION INSURANCE**

### **RECOMMENDATION**

It is recommended that the Board adopt Resolution No. 05.25.16.02, of the Board of Directors of the Florin Resource Conservation District authorizing application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities; Resolution No. 05.25.16.03 of the Board of Directors of the Florin Resource Conservation District consenting to enter the Joint Protection Programs of the Association of California Water Agencies/Joint Powers Insurance Authority; and Resolution No. 05.25.16.04 of the Board of Directors of the Florin Resource Conservation District authorizing volunteer personnel workers' compensation insurance.

### **Summary**

It is required that the Board of Directors of the Florin Resource Conservation District adopt three resolutions in order for the District to complete the application process to join the Association of California Water Agencies Joint Powers Insurance Authority (ACWA/JPIA) General Liability, Property and Workers Compensation Insurance Programs (Insurance Programs) in Fiscal Year 2016-17.

### **DISCUSSION**

#### **Background**

At the Board Meeting on March 23, 2016 the Board authorized the General Manager to execute all necessary documents for the District to join the ACWA/JPIA General Liability, Property and Workers Compensation Insurance Programs as well as withdraw from the Special Districts Risk Management Authority (SDRMA) Insurance Programs. This action was contingent upon the ACWA/JPIA Executive Committee's approval of the Districts application which was approved March 30, 2016.



**FLORIN RESOURCE CONSERVATION DISTRICT/ELK GROVE WATER DISTRICT  
GENERAL LIABILITY, PROPERTY AND WORKERS COMPENSATION INSURANCE**

**Page 2**

Present Situation

In order for the District to complete the application process to join the ACWA/JPIA Insurance Programs, the District must complete an application for a public entity certificate to self-insure as well as adopt the following resolutions:

1. Resolution No. 05.25.16.02, of the Board of Directors of the Florin Resource Conservation District authorizing application to the Director of Industrial Relations, State of California for a Certificate of Consent to Self-Insure Workers' Compensation Liabilities (application is attached as "Exhibit A").

This resolution is required by the State in order for the District to participate in the ACWA/JPIA Insurance Program pool of self-insured agencies.

2. Resolution No. 05.25.16.03 of the Board of Directors of the Florin Resource Conservation District consenting to enter the Joint Protection Programs of the Association of California Water Agencies/Joint Powers Insurance Authority.

This resolution is required by the ACWA/JPIA for the District to enter into the ACWA/JPIA Insurance Programs.

3. Resolution No. 05.25.16.04 of the Board of Directors of the Florin Resource Conservation District authorizing volunteer personnel workers' compensation insurance.

This resolution is also required by ACWA/JPIA in order for any volunteers performing work for the District to be covered by workers' compensation insurance.

**STRATEGIC PLAN CONFORMITY**

The recommendation made in this staff report conforms to the FRCD/EGWD's 2012-2017 Strategic Plan. The Strategic Plan directs EGWD to achieve financial stability in order to operate in an efficient manner as to provide our ratepayers with a safe and reliable source of water for their current and future needs.

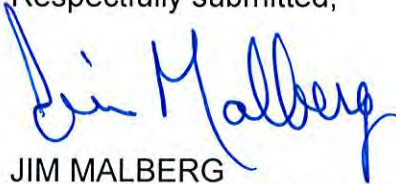
**FLORIN RESOURCE CONSERVATION DISTRICT/ELK GROVE WATER DISTRICT  
GENERAL LIABILITY, PROPERTY AND WORKERS COMPENSATION INSURANCE  
Page 3**

**FINANCIAL SUMMARY**

All insurance premium amounts are included each year in the annual operating budget and presented to the Board for approval. Total estimated premiums in FY 2016-17 are as follows:

	ACWA/JPIA
General Liability	\$ 57,446
Property	22,454
Workers Compensation	112,612
<b>Total</b>	<b>\$ 192,512</b>

Respectfully submitted,



JIM MALBERG  
FINANCE MANAGER/TREASURER



STEFANI PHILLIPS  
BOARD SECRETARY

Attachments

RESOLUTION NO. 05.25.16.02

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE FLORIN RESOURCE CONSERVATION DISTRICT  
AUTHORIZING APPLICATION TO THE DIRECTOR OF INDUSTRIAL  
RELATIONS, STATE OF CALIFORNIA FOR A CERTIFICATE OF  
CONSENT TO SELF INSURE WORKERS' COMPENSATION LIABILITIES**

WHEREAS, at the meeting of the Board of Directors of the Florin Resource Conservation District, a Special District, organized and existing under the laws of the State of California, held on the 25<sup>th</sup> day of May, 2016, the following resolution was adopted:

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Florin Resource Conservation District:

That the General Manager is hereby severally authorized and empowered to make application to the Director of Industrial Relations, State of California, for a Certificate of Consent to Self Insure workers' compensation liabilities on behalf of the Florin Resource Conservation District/Elk Grove Water District and to execute any and all documents required for such application; and

I Stefani Phillips, the undersigned Secretary of the Board of said Florin Resource Conservation District, a Special District, that the foregoing is a full, true and correct copy of the resolution duly passed by the Board at the meeting of said Board on the day and at the place herein specified and that said resolution has never been revoked, rescinded, or set aside and is now in full force and effect.

PASSED, APPROVED, AND ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ by the following vote:

**AYES:**  
**NOES:**  
**ABSTAIN:**  
**ABSENT:**

IN WITNESS WHEREOF: I HAVE SIGNED MY NAME AND AFFIXED THE SEAL OF THIS  
FLORIN RESOURCE CONSERVATION DISTRICT/ELK GROVE WATER DISTRICT

THIS \_\_\_\_\_ DAY OF \_\_\_\_\_.

\_\_\_\_\_  
Stefani Phillips  
Secretary to the Board of Directors

State of California  
Department of Industrial Relations  
Office of Self Insurance Plans  
11050 Olson Drive, Suite 230  
Rancho Cordova, CA 95670  
Phone (916) 464-7000  
FAX (916) 464-7007



Our File: \_\_\_\_\_

### APPLICATION FOR A PUBLIC ENTITY CERTIFICATE OF CONSENT TO SELF INSURE

NOTE: All questions must be answered. If not applicable, enter "N/A".  
Workers' compensation insurance must be maintained until certificate is effective.

#### APPLICANT INFORMATION

Legal Name of Applicant (show exactly as on Charter or other official documents):

Florin Resource Conservation District

Street Address of Main Headquarters:

9257 Elk Grove Blvd.

Mailing Address (if different from above):

Federal Tax ID No.:

68-0409700

City, State, Zip Code

Elk Grove, CA, 95624

TO WHOM DO YOU WANT CORRESPONDENCE REGARDING THIS APPLICATION ADDRESSED?

Name: Jim Malberg

Title: Finance Manager / Treasurer

Company Name: Florin Resource Conservation District / Elk Grove Water District

Mailing Address: 9257 Elk Grove Blvd.

City: Elk Grove

State: CA

Zip + 4: 95624

Telephone Number: (916) 685-3556

Email: jmalberg@egwd.org

Type of Public Entity (check one):

City and/or County     School District     Police and/or Fire District     Hospital District     Joint Powers Authority

Other (describe): Special District

Type of Application (check one):

New Application     Reapplication due to Merger or Unification     Reapplication due to Name Change

Other (describe) \_\_\_\_\_

Date Self Insurance Program will begin: July 1, 2016

CURRENT PROGRAM FOR WORKERS' COMPENSATION LIABILITIES

Currently Insured with State Compensation Insurance Fund, Policy Number:

Policy Expiration Date: Yearly Premium: \$

Current Yearly Incurred (paid & unpaid) Losses: \$ (FY or CY)

Currently Self Insured, Certificate Number:

Name of Current Certificate Holder:

Other (describe): Special District Risk Management Authority (SDRMA)

JOINT POWERS AUTHORITY

Will the applicant be a member of a workers' compensation Joint Powers Authority for the purpose of pooling workers' compensation liabilities?

Yes No If yes, then complete the following:

Effective date of JPA Membership: JPA Certificate No.: 5807

Name and Title of JPA Executive Officer:

Andy Sells, Chief Executive Officer

Name of Joint Powers Authority Agency:

Association of California Water Agencies/Joint Powers Insurance Authority

Mailing Address of JPA:

2100 Professional Drive

City: State: Zip + 4:

Roseville, CA 95661

Telephone Number: 916-786-5742

PROPOSED CLAIMS ADMINISTRATOR

Who will be administering your agency's workers' compensation claims? (check one)

JPA will administer, JPA Certificate No.: 5807

Third party agency will administer, TPA Certificate No.:

Public entity will self administer Insurance carrier will self administer

Name of Individual Claims Administrator:

Melody Tucker

Name of Administrative Agency:

Association of California Water Agencies/Joint Powers Insurance Authority

Mailing Address:

2100 Professional Drive

City: State: Zip + 4:

Roseville, CA 92661

Telephone Number: 916-786-5742 FAX Number: 916-786-0209

Number of claims reporting locations to be used to handle the agency's claims: 1

Will all agency claims be handled by the administrator listed on previous page?  Yes  No

**AGENCY EMPLOYMENT**

Current Number of Agency Employees: 31

Number of Public Safety Officers (law enforcement, police or fire): 0

If a school district, number of certificated employees: N/A

Will all agency employees be included in this self insurance program?  Yes  No

If no, explain who is not included and how workers' compensation coverage is to be provided to the excluded agency employees:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**INJURY AND ILLNESS PREVENTION PROGRAM**

Does the agency have a written Injury and Illness Prevention Program?  Yes  No

Individual responsible for agency Injury and Illness Prevention Program:

Name and Title:

Mark J. Madison, General Manager

Company or Agency Name:

Florin Resource Conservation District / Elk Grove Water District

Mailing Address:

9257 Elk Grove Blvd.

City:

Elk Grove

State:

CA

Zip + 4:

95624

Telephone Number: (916) 685-3556

**SUPPLEMENTAL COVERAGE**

Will your self insurance program be supplemented by any insurance or pooled coverage under a standard workers' compensation insurance policy?  Yes  No

If yes, then complete the following:

Name of Carrier or Excess Pool: \_\_\_\_\_

Policy Number: \_\_\_\_\_

Effective Date of Coverage: \_\_\_\_\_

Will your self insurance program be supplemented by any insurance or pooled coverage under a specific excess workers' compensation insurance policy?  Yes  No

If yes, then complete the following:

Name of Carrier or Excess Pool: \_\_\_\_\_

Policy Number: \_\_\_\_\_

Effective Date of Coverage: \_\_\_\_\_

Retention Limits: \_\_\_\_\_

Will your self insurance program be supplemented by any insurance or pooled coverage under an aggregate excess (stop loss) workers' compensation insurance policy?  Yes  No

If yes, then complete the following:

Name of Carrier or Excess Pool: \_\_\_\_\_

Policy Number: \_\_\_\_\_

Effective Date of Coverage: \_\_\_\_\_

Retention Limits: \_\_\_\_\_

RESOLUTION OF GOVERNING BOARD

See Attached Resolution-Page 5

CERTIFICATION

The undersigned on behalf of the applicant hereby applies for a Certificate of Consent to Self Insure the payment of workers' compensation liabilities pursuant to Labor Code Section 3700. The above information is submitted for the purpose of procuring said Certificate from the Director of Industrial Relations, State of California. If the Certificate is issued, the applicant agrees to comply with applicable California statutes and regulations pertaining to the payment of compensation that may become due to the applicant's employees covered by the Certificate.

Signature of Authorized Official:

Date:

Typed Name:

Mark J. Madison

Title:

General Manager

Agency Name:

Florin Resource Conservation District / Elk Grove Water District

Seal

(Emboss seal above or Notarize signature)



**RESOLUTION NO. 05.25.16.03**

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE FLORIN RESOURCE CONSERVATION DISTRICT  
CONSENTING TO ENTER THE JOINT PROTECTION  
PROGRAMS OF THE ASSOCIATION OF CALIFORNIA WATER  
AGENCIES/JOINT POWERS INSURANCE AUTHORITY**

WHEREAS, pursuant to the provisions of Section 990, 990.4, 990.8, and 6500 of the Government Code, Florin Resource Conservation District/Elk Grove Water District (District) wishes to enter into an agreement with various other districts entitled "Joint Powers Agreement: Creating the Association of California Water Agencies/Joint Powers Insurance Authority" (the Authority), for the purpose of participating in the Joint Powers Insurance Authority created thereby, which since its formation has provided for and administered joint protection programs as more fully set forth in said agreement; and

WHEREAS, said joint protection programs offer significant advantages to this District in terms of cost, liability protection, property protection, workers' compensation protection, and services, and entering such programs, on the conditions hereinafter set forth, appears to be in the best interest of the District.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Florin Resource Conservation District:

Section 1. That the Florin Resource Conservation District / Elk Grove Water District hereby consents pursuant to the above-mentioned Joint Powers Agreement, and the resolutions and policies enacted in implementation of such Agreement, to enter said joint protection programs.

Section 2. That the District hereby elects to join the Liability, Property, and Workers' Compensation Programs sponsored by the Authority.

Section 3. That the District hereby selects \$10, 000 as its Retrospective Allocation Point (RAP) for the first partial year of participation under the Authority's cost allocation formula for liability exclusive of Dam Failure Liability.

Section 4. That the District hereby selects \$15,000 as its Retrospective Allocation Point (RAP) for the first partial year of participation under the Authority's cost allocation formula for workers' compensation liabilities.

Section 5. That the Treasurer of this District is hereby authorized to pay to the ACWA/Joint Powers Insurance Authority its first deposit premium.

Section 6. That the Secretary of the Board of Directors of the Florin Resource Conservation District is directed to certify a copy of this resolution and to forward the same resolution, the signed Joint Powers Agreement, and the JPIA deposit premium payment promptly by mail to the Association of California Water Agencies/Joint Powers Insurance Authority, P.O. Box 619082, Roseville, California, 95661, at which time coverage will commence the first day of July, 2016.

PASSED, APPROVED, AND ADOPTED this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ by the following vote:

**AYES:**  
**NOES:**  
**ABSTAIN:**  
**ABSENT:**

\_\_\_\_\_  
Chuck Dawson  
Chairman of the Board of Directors

ATTEST:

\_\_\_\_\_  
Stefani Phillips  
Secretary to the Board of Directors

**RESOLUTION NO. 05.25.16.04**

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE FLORIN RESOURCE CONSERVATION  
DISTRICT AUTHORIZING VOLUNTEER PERSONNEL  
WORKERS' COMPENSATION INSURANCE**

WHEREAS, this board desires to provide Workers' Compensation Insurance benefits for persons authorized by the Florin Resource Conservation District / Elk Grove Water District (District) to perform volunteer services for the District, and

WHEREAS, the Legislature of the State of California has provided through legislation (Labor Code Section 3363.5) authorization for the inclusion of such coverage in the District's workers' compensation insurance policy.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of the Florin Resource Conservation District hereby adopts the policy that an unpaid person authorized to perform volunteer service for the District shall be deemed to be an employee of the District for the purposes of Workers' Compensation Insurance benefits provided for by law for any injury or illness sustained by them while engaged in the performance of services for the District under its direction and control.

The aforementioned resolution was passed by said Board of Directors the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by the following vote, to wit:

**AYES:**  
**NOES:**  
**ABSTAIN:**  
**ABSENT:**

\_\_\_\_\_  
Chuck Dawson  
Chairman of the Board of Directors

ATTEST:

\_\_\_\_\_  
Stefani Phillips  
Secretary to the Board of Directors